

AAAFM - UCLA 2019 Abstract Announcement

(Complete List of Accepted Abstracts for the AAAFM – UCLA 2019)

American Association for Advances in Functional Materials

Serial	Symposium	Authors	Title	Mode of
No:				Presentation
	Symposium		Preparation of Fluorescent	
	1: Functional		Magnetic Molecularly	
	Biomaterials	Chen, Zhao;	Imprinted Polymer of	
	and	Haixian, Pan;	Gossypol and	
	Biosensors	Guangfeng, Jia;	Fluorescence Polarization	
1	(FBB)	Wenzong, Lu	Detection	Invited
	Symposium			
	1: Functional		Carbon Nanotubes	
	Biomaterials		Reinforced Hydroxyapatite	
	and		Based Functional	
2	Biosensors (FBB)	Dorwoz Khalid	Biomaterial for	Oral
Z	Symposium	Parwez, Khalid	Regenerative Engineering Chiral separation of (±)-	Ulai
	1: Functional		methamphetamine $(\pm)^{-1}$	
	Biomaterials		racemate using	
	and		molecularly imprinted	
	Biosensors	Monier,	sulfonic acid	
3	(FBB)	Mohammed	functionalized resin	Poster
	Symposium			
	1: Functional		In situ diagnosis of human	
	Biomaterials		enamel demineralisation	
	and		using advanced time-	
	Biosensors		resolved synchrotron X-	
4	(FBB)	Sui, Tan	ray techniques	Invited
	Symposium			
	1: Functional		Influence of melatonin on	
	Biomaterials		sol-to-gel transformation	
	and		of DNA encapsulating	
F	Biosensors	Kanusuz Dorva	silica: Barrier against ROS	Oral
5	(FBB) Symposium	Kapusuz, Derya	damage	Oral
	1: Functional			
	Biomaterials		Zebrafish embryos as a	
	and		tool to study the in vivo	
	Biosensors		behavior of	
6	(FBB)	kros, alexander	nanomedicines	Oral



	Symposium 1: Functional Biomaterials and	Kao, Ching-Wei,	Analgesics Embedded Biodegradable Nanofibrous Anti-adhesive Films Providing	
7	Biosensors (FBB)	Wu, Min-Hsuan, Liu, Shih-Jung	Sustainable Pain Relief for Surgical Wounds	Oral
8	Symposium 1: Functional Biomaterials and Biosensors (FBB)	AL Masry, Waheed, Haider, Sajjad, Haider, Adnan, A. AhmedAli, Fekri, Al-Zeghayer, Yousef	Novel Route for Amine Grafting to Chitosan Electrospun Nanofibers Membrane for the Removal of Copper and Lead ions from aqueous medium	Oral
9	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Mousavi, Seyed Farshid	MicroRNAs and Exosomes in Depression: Potential Diagnostic Biomarkers	Oral
10	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Nasrollahzadeh, Naser, Karami, Peyman, Pioletti, Dominique	Enhanced mechanical and mechanobiological properties of hydrogels by controlling their dissipation sources	Oral
11	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Schmidt, Thorsten L	DNA-assembled Plasmonic Waveguides for Nanoscale Light Propagation to a Fluorescent Nanodiamond	Invited
12	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Neupane, Dharmendra; Bhattarai, Jay; Demchenko, Alexei; Stine, Keith	Recent Applications of Nanoporous Gold to Glycoscience	Poster
13	Symposium 1: Functional Biomaterials and	Jang, Eun-Hye; Chung, Sungwook	Chemically functionalized amorphous silica nanoparticles equipped with uniform nanopores for removing hexavalent	Poster



	Biosensors (FBB)		Chromium ions from wastewater	
14	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Lv, Fengting; Zhou, Lingyun; Liu, Libing; Wang, Shu	In Situ-Induced Multivalent Anticancer Drug Clusters in Cancer Cells for Enhancing Drug Efficacy	Oral
15	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Toker, Sidika Mine	Biocompatibility dependence of metallic biomaterials on microstructural mechanisms	Oral
16	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Liu, Chunxiu	Au nanoparticles- enhanced optical sensor for CRP sandwich detection	Poster
17	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Spokoyny, Alexander	Atomically Precise Hybrid Nanoparticles with Multivalent Capabilities	Oral
18	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhong, Chao	Engineering Living Functional Materials with Synthetic Biology	Oral
19	Symposium 1: Functional Biomaterials and Biosensors (FBB)	HU, Jinlian; Venkatesan, Harun; Chen, Jianming; Jiang, Yuanzhang; GU, Lin	Spider Silks: A Source of Inspiration towards Revolutionary Functional Materials	Oral
20	Symposium 1: Functional Biomaterials and	Li, Yan-Hom; Chen, Shao- Chun	Effect of Flexibility on the Microswimmers Made of Functional Fluid	Oral



	Biosensors			
	(FBB) Symposium		Flexible Biomimetic	
	1: Functional Biomaterials		Sensors for Extracellular Monitoring Based on	
	and	Yao, Yao;	Freestanding MXene Film	
04	Biosensors	Ping, Jianfeng;	with In-situ Growing Noble	Oral
21	(FBB) Symposium	Ying, Yibin	Metal Nanoparticles A Portable Enzymatic	Oral
	1: Functional		Biosensor Based on	
	Biomaterials		Bimetallic Nanoparticles	
	and Biosensors	Zhao, Fengnian;	Modified Two-dimensional MXene Nanocarriers for	
22	(FBB)	Ping, Jianfeng	Pesticide Detection	Oral
	Symposium 1: Functional			
	Biomaterials	Zhang, Zhiming;	Dual-responsive polymeric	
	and	Huang, Chenlu;	micelles for chemo-	
23	Biosensors (FBB)	Zhang, Linhua; Zhu, Dunwan	photothermal combination therapy	Poster
	Symposium	,		-
	1: Functional Biomaterials	Huang, Chenlu;	Bubble-generating polymersomes for	
	and	Zhang, Zhiming;	synergistic chemo-	
0.4	Biosensors	Zhu, Dunwan;	photothermal tumor	Destan
24	(FBB) Symposium	Zhang, Linhua	therapy	Poster
	1: Functional	Alvarez, Noe;		
	Biomaterials	Miller, Peter ;	Tailoring Electrical	
	and Biosensors	Lobo, Rui ; Shanov,	Conductivity of Carbon Nanotube Threads During	
25	(FBB)	Vesselin	Assembly	Oral
	Symposium 1: Functional	Solberg, Klas;		
	Biomaterials	Razavi, Seyed	Fatigue assessment of	
	and	Mohammad	additively manufactured	
26	Biosensors (FBB)	Javad; Berto, Filippo	light alloys for biomedical applications	Oral
	Symposium	Kim, Hye Jin;		
	1: Functional Biomaterials	Ahn, Hee Ju; Hwang, Kyo	High accurate bio-fluid based electrical biosensor	
27	and	Seon	for commercialization	Oral



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	Biosensors (FBB)			
28	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Paradee, Nophawan; Sirivat, Anuvat	Gelatin-coated super paramagnetic nanoparticle for cancer drug delivery	Poster
29	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Chatterjee, Shreosi; Das, Surajit	BIOSYNTHESIS OF MAGNETITE NANOPARTICLES USING Aspergillus niger BSC-1 ISOLATED FROM MANGROVE ECOSYSTEM	Poster
30	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Bai, Jing; Wu, Zhen-sen; Ge, Cheng-xian	Stability and dynamics of self-arranged chiral structures in lateral optical binding	Poster
31	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wu, Zhen-sen; Bai, Jing; Ge, Cheng-xian	Interactions between stratified biological cells optically trapped in high- order Bessel beams	Poster
32	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Song, Kedong; Li, Wenfang; Hu, Xueyan; Li, Liying; Liu, Tianqing	Comparison and evaluation of tissue- engineered 3D tumor model based on different resources of biomaterials	Poster
33	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Mahanty, Shouvik; Bakshi, Madhurima; Ghosh, Somdeep; Gaine, Tanushree; Chatterjee, Shreosi;	Adsorption of Cr(VI) from synthetic industrial waste water by iron oxide nanoparticles synthesized using manglicolous fungi isolated from Indian Sunderbans	Poster



		Bhattachrya,		
		Subarna		
		Das, Surajit;		
		Saha, Papita;		
		Chaudhuri,		
		Punarbasu		
	Symposium			
	1: Functional			
	Biomaterials		Green receptor based	
	and		qualitative estimation of	
	Biosensors	Biswas, Rajib;	mercury detection in	
34	(FBB)	Boruah, B	aqueous solution	Oral
	Symposium			
	1: Functional			
	Biomaterials			
	and	Bhatt, Geeta;	An inexpensive and robust	
	Biosensors	Bhattacharya,	PCB platform for	
35	(FBB)	Shantanu	molecular diagnostics	Oral
	• ·	Almici, Enrico;	Development of 3D	
	Symposium	Martín-Vañó,	engineered cell derived	
	1: Functional	Susanna;	matrices by topological	
	Biomaterials	Montero, Joan;	stimuli to assess how	
	and	Caballero, David;	matrix anisotropy	
20	Biosensors	Noguera, Rosa;	regulates tumoral cell	Oral
36	(FBB)	Samitier, Josep	proliferation and migration	Oral
		Moldovan,		
		Marioara;		
		Rosu, Marcela;		
	Symposium	Prejmerean,		
	Symposium 1: Functional	Cristina; Pordan Doina:		
	Biomaterials	Pordan, Doina;	Solubility, morphological	
		Popescu, Violeta;	and antibacterial	
	and Biosensors	Sarosi, Codruta;	properties of biomaterials	
37	(FBB)	Carpa, Rahela	with graphene	Poster
51				
	Symposium	•		
		,	Influence of various	
38		-		Poster
38	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Mazilu, Ionela Amalia ; Moldovan, Marioara; Popescu, George; Moldovan, Andrei;	Influence of various whitening agents upon biomaterials used in dentistry	Poster





	and			
	and			
	Biosensors (FBB)			
	Symposium 1: Functional Biomaterials and Biosensors	Travas-Sejdic, Jadranka; Baek, Paul; Wang, Min; Woorhar, Lenny;	Polymer Electronic Materials for Biomedical	Oral
44	(FBB)	Barker, David	Applications	Oral
45	Symposium 1: Functional Biomaterials and Biosensors	Li, Jing; Huang, Yishun; Tian, Leilai	DNA Polymer Synthesized from Rolling Circle Amplification and Its	Oral
45	(FBB)	Tian, Leilei Collier, Charles	Biomedical Applications	Oral
46	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Patrick; Najem, Joseph; Taylor, Graham; Weiss, Ryan; Hasan, Md. Sakib; Rose, Garrett; Schuman, Catherine; Belianinov, Alex; Sarles, Stephen Andy	Electrostriction, capacitive susceptibility, and neuromorphic computing in biomembranes	Oral
47	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Kalluri, Ankarao; Caplash, Kanu; Patra, Prabir; Challa, Vijaya Kumar	Protein Quantum Dots (ProQDs): Biofriendly, Bioactive and White Light Emitting Conductive Protein Hydrogel	Poster
48	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Patra, Prabir K; Mohanty, Sujata; Jain, Krishan G; Rawat, Sonali; Debnath, Debika; Kalluri, Ankarao; Dharmadhikari, Bhushan	Polymer-Graphene Nancomposite Scaffold for the Differentiation of Mesenchymal Stem Cell to Functional Neuron	Oral



		Qiu, Wenting;		
	Symposium	Lu, Zhangdi;	Multilayer lab-on-a-chip	
	1: Functional	Li, Yanxiu;	materials for simultaneous	
	Biomaterials	Xiong, Yuan;	digital microfluidic	
	and	Rogach, Andrey	operation and optical	
10	Biosensors	L.;	chemical sensing and	
49	(FBB)	Nagl, Stefan	imaging	Oral
		qin, Hu; Xia, Chang:		
		Xia, Cheng; Yao, Cen;	Highly consitive and	
	Symposium	Guanhong, Xu;	Highly sensitive and selective determination of	
	1: Functional	Fangdi, Wei;	adenosine triphosphate	
	Biomaterials	Menglan, shi;	based on fluorescence	
	and	Xiaoman, Xu;	resonance energy transfer	
	Biosensors	Muhammad,	between carbon dots and	
50	(FBB)	Sohail	graphene oxide	Poster
	Symposium		<u> </u>	
	1: Functional		A universal biosensing	
	Biomaterials		platform based on carbon	
	and		nanomembrane	
	Biosensors	Turchanin,	(CNM)/graphene	
51	(FBB)	Andrey	heterostructures	Oral
	Symposium			
	1: Functional			
	Biomaterials			
	and		Affinity-Based Culture	
50	Biosensors	Porter, James	Platform for Human	Desta
52	(FBB)	Marshall	Hormone Profiling	Poster
		Krishnan,		
		Sadagopan;		
		Walgama,		
	Symposium	Charuksha; Singh, Vini;		
	Symposium 1: Functional	Premaratne,		
	Biomaterials	Gayan;	Robust Pyrenyl Carbon	
	and	Nerimetla,	Nanostructures for	
	Biosensors	Rajasekhara;	Biomarker Sensors and	
53	(FBB)	Niroula, Jinesh	Enzyme Electrocatalysis	Oral
	,		A label-free	
	Symposium		electrochemical	
	1: Functional	Zhu, Chunhong;	aptasensor based on	
	Biomaterials	Zhu, Wanying;	magnetic biocomposites	
54	and	zhou, xuemin	with Pb2+-dependent	Poster



	Biosensors		DNAzyme for the	
	(FBB)	Yang, Tiantian;	detection of thrombin	
		Xu, Lulu;		
	Symposium	Liu, Shengchun;	Colocalization-triggered	
	1: Functional	Shen, Yifan;	DNA nanoassembly for	
	Biomaterials	Huang, Lizhen;	facile and amplified	
	and	Zhang, Lutan;	imaging of HER2	
	Biosensors	Ding, Shijia;	dimerization on cancer cell	Destan
55	(FBB)	Cheng, Wei	surface in tissue samples	Poster
		Ferjaoui, Zied; Bezdetnaya,		
		Lina;		
	Symposium	Schneider,		
	1: Functional	Raphaël;		
	Biomaterials	Mertz, Damien;		
	and	Begin, Sylvie;	Smart superparamagnetic	
50	Biosensors	Gaffet, Eric;	nano-carrier for cancer	Oral
56	(FBB) Symposium	Alem, Halima	therapy	Oral
	1: Functional			
	Biomaterials			
	and			
	Biosensors		Fluorescent potassium ion	
57	(FBB)	Tian, Yanqing	sensors	Oral
		Nwamba, Okechukwu		
		Charles;		
		Echeverria,		
	Symposium	Elena;		
	1: Functional	McIlroy, David,		
	Biomaterials	N.;		
	and	Shreeve,	Thermally Modified	
58	Biosensors (FBB)	Jean'ne, M.; Aston, D Eric	Graphites for Fouling- Resistant Electrodes	Oral
50	נטט ו)	Li, Lan;	Nano-patterned Bilineage	
	Symposium	Li, Jiayi;	Scaffolds Coated by Self-	
	1: Functional	Guo, Jiamin;	assembly Peptide	
	Biomaterials	Zhang, Huikang;	Hydrogels for	
	and	Zhang, Xin;	Simultaneous	
	Biosensors	Yin, Caiyun;	Osteochondral	
59	(FBB)	Wang, Liming;	Regeneration	Oral



		Zhu, Yishen; Yao, Qingqiang		
60	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Yunda, Elena; Quilès, Fabienne Horwat, David Alem, Halima	Bacterial development on functionalized surfaces: from first steps of adhesion to biofilm growth	Oral
00	Symposium			
61	1: Functional Biomaterials and Biosensors (FBB)	LIU, XD; WU, Y	Alginate-based micro/nanoparticles for the delivery of drugs	Invited
62	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xu, Xiubin; Wu, Xu; Yu, Danfeng	Preparation temperature influence on the properties of hydrogels	Poster
63	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Daskalova, Albena, Bliznakova, Irina; Trifonov, Anton; Angelova, Liliya ; Declerqc, Heidi; Buchvarov, Ivan	Controllable patterning designs of biomimetic thin film coatings induced by femtosecond laser texturing for cellular guidance	Poster
64	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Patra, Hirak	Advanced Functional Biomaterials for Programmable Theranostics	Invited
65	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Virtanen, Juhani; Toivanen, Maria; Toimela, Tarja; Heinonen, Tuula; Tuukkanen, Sampo	Direct measurement of human derived cardiomyocyte cluster contraction force using piezoelectric cantilever sensor	Oral
66	Symposium 1: Functional Biomaterials and	González, Itziar; Pinto, Alberto; Acosta, Victor; Earl, Julie	Low-cost microfluidic devices to perform cell manipulation by ultrasounds	Oral



	Biosensors (FBB)			
67	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Awuzie, Chioma Irene; Ucheonye, Emeka Martin	The Applications of Nanotechnology Based Biosensors	Oral
68	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Tran, Hoang Vinh Nguyen, Nghia Duc; Nguyen, Thi Dai Trang; Huynh, Dang Chinh; Le, Hai Dang	Fe3O4@C core-shell structure: Peroxidase - Like Activity for Development of A Colorimetric Sensor For Glucose Detection. Application to Human Serum	Poster
69	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Zhu, Xiaolu; Wang, Zheng	Self-organizing Behaviors of Murine Myoblasts in the Dextran Hydrogel with Adjustable Configuration	Poster
70	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xu, Qin; Yang, Xiaoyu; Hu, Xiaoya	Molecular imprinted organometal lead halide perovskites: an effective platform for constructing sensitive and selective photoelectrochemical sensor	Poster
71	Symposium 1: Functional Biomaterials and Biosensors (FBB)	HIRATA, Gustavo A,; Chauhan, Kanchan; Sengar, Prakhar	Rare earth-doped nanosphosphors: Synthesis and novel applications in nanomedicine	Invited
72	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Ali, Isra Hussein; Khalil, Islam Ahmed; EI-Sherbiny, Ibrahim Mohamed	Phosphodiesterase Inhibitor and Connective Tissue Stimulating Drugs Loaded Nanofiberous Scaffolds for Enhanced Bone Fracture Healing	Oral



	Symposium			
	1: Functional		Activatable Gadolinium-	
	Biomaterials	Ta, Hang T.;	Iron Oxide Nanoparticles	
	and	Arndt, Nina;	for Detection and	
	Biosensors	Wu, Yuao;	Discrimination of	
73	(FBB)	Xu, Zhi Ping	Thrombosis	Oral
		Collart Dutilleul,		
	Symposium	Pierre-Yves;		
	1: Functional	Fatima, Naveen;		
	Biomaterials	Cunin,	Porous silicon for tissue	
	and	Frédérique;	engineering:	
	Biosensors	Cuisinier,	spectroscopic studies of	
74	(FBB)	Frédéric	dissolution	Oral
	Symposium	El-Shafey, El-		
	1: Functional	Said Ibrahim;	functionalized dehydrated	
	Biomaterials	Al lawati, Haider;	carbons from date palm	
	and	Al-Busafi, Saleh;	leaflets for pollution	
	Biosensors	Ali, Syeda nahed	control of organic	
75	(FBB)	furqan	compounds	Oral
	Symposium			
	1: Functional	Siddique, Hafiz	Assessment of	
	Biomaterials	Faisal;	compression socks to	
	and	Mazari, Adnan	different mechanical	
	Biosensors	Ahmed;	impacts using cut-strip	
76	(FBB)	Havelka, Antonin	method	Oral
	Symposium		Adaptable Surface	
	1: Functional		Plasmon Resonance	
	Biomaterials		Polarimetry System with	
	and	Wang, Jing;	variable levels of	
	Biosensors	Zhang, Bei;	sensitivity and tunable	
77	(FBB)	Ren, Yong	dynamic ranges	Poster
		Cucchi,		
		Alessandro;		
	• ·	Vignudelli,		
	Symposium	Elisabetta;	Three-dimensional Guided	
	1: Functional	Emanuele,	Bone Regeneration	
	Biomaterials	Randellini;	(GBR): Customized	
	and	Paolo, Calamai;	Titanium laser-sintered	
	Biosensors	Giuseppe,	meshes with and without	
78	(FBB)	Corinaldesi	collagen membranes.	Invited
	Symposium		Effects of Zn and Ag ratio	
	1: Functional	Li, Dejun;	on cell adhesion and	
79	Biomaterials	Li, Li	antibacterial properties of	Poster



	and		Zn/Ag co implanted TiN	
	Biosensors		coatings	
	(FBB)		ge	
	Symposium			
	1: Functional			
	Biomaterials		Nickel-Zinc Ferrite	
	and		Nanoparticles: A Potential	
	Biosensors	Borah, Jyoti	Heat Generating Material	
80	(FBB)	Prasad	for Magnetic Hyperthermia	Invited
00	Symposium	1 10300		Invited
	1: Functional			
	Biomaterials			
	and		Thermal Influence of	
	Biosensors	Vouceof Homdy:	Laser Irradiation on	
01		Youssef, Hamdy;		Oral
81	(FBB)	Alghamdi, Najat	Human Breast with Tumor	
	Symposium 1: Functional		Highly water-dispersible Betaine-HCl	
	Biomaterials		Functionalized Co0.5	
		Nikom Dinali		
	and	Nikam, Dipali Subhash;	Zn0.5 Fe2 O4 magnetic	
82	Biosensors		NPs for hyperthermia	Invited
02	(FBB)	Pawar, Shivaji H	application	Invited
	Symposium 1: Functional		Lies of Delymoria	
	Biomaterials		Use of Polymeric	
			Nanoparticle Platform to	
	and		induce Treg-mediated	
02	Biosensors	Via Tian	Antigen-Specific Immune	Invited
83	(FBB)	Xia, Tian	Tolerance	Invited
	Symposium 1: Functional		Specific Detection and Visualization of	
	Biomaterials		Cyclooxygenase-2 by a	
	and		Targeted Fluorescent	
04	Biosensors		Probe with Conformation-	Destar
84	(FBB)	Luo, Yuchao	Induced Light Up Activity	Poster
	Symposium	Suleiman,	Determination of	
	1: Functional	Abdussalam	Determination of	
	Biomaterials	Balarabe;	electronics and molecular	
	and	Said, Mansur;	structure of Nateglinine	
0.5	Biosensors	Shuaibu Gidado,	antidiabetic drugs using	Oral
85	(FBB)	Abdulkadir	DFT	Oral
	Symposium	Tiwari, Rahul;		
	1: Functional	Mohapatra,	Cisplatin loaded lectinized	
	Biomaterials	Debasish;	liposomes system for	Destar
86	and	Vyas, Suresh	nuclear targeting	Poster



	Biosensors	Prasad;		
	(FBB)	Soni, Vandana		
	Symposium 1: Functional			
	Biomaterials			
	and			
	Biosensors		Nano-biomaterials in	
87	(FBB)	Pandey, Pratima	Antimicrobial Therapy	Invited
07	Symposium	Fanuey, Frauma	Antimicrobial merapy	Invited
	1: Functional		Metallofullerenol Inhibits	
	Biomaterials		Cellular Iron Uptake By	
	and		Specially Inducing	
	Biosensors	wu, zhonghua;	Transferrin	
88	(FBB)	xing, xueqing	Tetramerization	Poster
	Symposium			
	1: Functional			
	Biomaterials		Measurement of Protein	
	and		Size in Concentrated	
	Biosensors		Solutions by Small Angle	
89	(FBB)	li, zhihong	X-Ray Scattering	Poster
	Symposium			
	1: Functional			
	Biomaterials			
	and	Lin, Fangfei;	A New Antimicrobial	
	Biosensors	Yuan, Songmei;	Method Against Indwelling	
90	(FBB)	Han, Wenliang	Catheter-related Infection	Oral
	Symposium		Frequency Shift Raman-	
	1: Functional		Based Sensing of Serum	
	Biomaterials		Biomarkers for Early	
	and		Diagnosis and Discrimination of Primary	
91	Biosensors (FBB)	Li, Min	Liver Cancers	Invited
31		Park, Jae Suh;		
		Kim, Soon		
		Woong;		
	Symposium	Oh, Sung Hwan;		
	1: Functional	Kim, Kwan		
	Biomaterials	Young;	A novel Anti-freezing	
	and	Park, Yi Se;	Biopolymer derived from	
	Biosensors	Lee, Seok Bae;	Antarctic Microorganism	
92	(FBB)	Kim, Dong Hyun	as Cryoprotective Agent	Poster
	Symposium	Cheng,	3D graphene scaffolds	
93	1: Functional	Guosheng	meets neural stem cells	Invited



	Biomaterials and Biosensors (FBB)			
94	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wang, Yi	Zein-paclitaxel prodrug nanoparticles for redox- triggered drug delivery and enhanced therapeutic efficiency	Oral
95	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Gutierrez-Sanz, Oscar; M. Andoy, Nesha; S. Filipiak, Marcin; Haustein, Natalie; Tarasov, Alexey	Direct, label-free and rapid transistor-based immunodetection in whole serum	Poster
96	Symposium 1: Functional Biomaterials And Biosensors (FBB)	Kasinathan, Kana, Noluthando; Kulandaiswamy, Arockia Jayalatha; Rayappan, John Bosco Balaguru; Vedamuthu, John Kennedy; Malik, Maaza; Rathnakumar, Sowmya Sri	Stalling Behaviour of Chloride ions: A Non- enzymatic Electrochemical Detection of α-Endosulfan using CuO Nano-interface	Invited
97	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Xiao, Shili; Peng, Qingyan; Tao, Yongzhen; Shi, Xiangyang; Xu, Weilin	pDNA-activated Electrospun PLGA Nanofibrous Scaffolds for Tissue Engineering	Poster
98	Symposium 1: Functional Biomaterials and	Li, Xinghua; Yin, Zhouyang; Wang, Yingying	3D Label-Free Matrix Metalloproteinase-3 Immunosensor Based on Graphene	Poster



Biosensors (FBB)		Oxide/Polypyrrole-Ionic Liquid Nanocomposite	
Symposium 1: Functional Biomaterials and Biosensors (FBB)	Wang, Pan; Yang, Ning; Yuan, Shouqi	Performance Evaluation of Particle Separation Impactor with an Additional Compound Structure	Invited
Symposium 1: Functional Biomaterials and Biosensors (FBB)	M. Dominguez, Carmen; Niemeyer, Christof	Origami-based Microfluidic Interface for Cell Signaling	Poster
Symposium 1: Functional Biomaterials and Biosensors (FBB)	Hu, Yong	Carbon-Nanotube Reinforcement of DNA- Silica Nanocomposites Yields Programmable, Cell-Instructive Biocoatings	Poster
Symposium 1: Functional Biomaterials and Biosensors (FBB)	Schneider, Karl Heinrich; Enayati, Marjan); Rohringer, Sabrina; Grasl, Christian ; Almeria, Chiara ; Walter, Ingrid; Wojta, Johann; Schima, Heinrich; Hallstroem, Seth; Podesser, Bruno; Bergmeister, Helga	In-vitro and in-vivo evaluation of small- diameter nitric oxide- eluting biodegradable vascular grafts	Poster
Symposium 1: Functional Biomaterials and Biosensors	Kaur, Manjot; Nakamura, Hiroyuki;	Nanostructured boron carbide for cancer treatment by boron	Poster
	(FBB) Symposium 1: Functional Biomaterials and Biosensors (FBB) Symposium 1: Functional Biomaterials and Biosensors (FBB) Symposium 1: Functional Biomaterials and Biosensors (FBB) Symposium 1: Functional Biomaterials and Biosensors (FBB) Symposium 1: Functional Biomaterials and	(FBB)Symposium1: FunctionalBiomaterialsandWang, Pan;BiosensorsYang, Ning;(FBB)Yuan, ShouqiSymposiumYuan, Shouqi1: FunctionalM. Dominguez,BiosensorsCarmen;BiosensorsChristofSymposium.1: FunctionalM. Dominguez,BiosensorsChristofSymposium.1: Functional.Biosensors.(FBB)Hu, YongSchneider, KarlHeinrich;Biosensors.(FBB)Hu, YongSchneider, Karl.Heinrich;Enayati, Marjan);Rohringer,Sabrina;Grasl, Christian ;.Almeria, Chiara ;Walter, Ingrid;Wojta, Johann;.Schima,Heinrich;1: FunctionalBiomaterialsBiosensorsBergmeister,(FBB)HelgaSymposium.1: FunctionalKaur, Manjot;BiomaterialsAndandKaur, Manjot;andKaur, Manjot;BiosensorsHeiroyuki;	(FBB)Liquid NanocompositeSymposium 1: Functional Biomaterials andWang, Pan; Yang, Ning; Yang, Ning; Yuan, ShouqiPerformance Evaluation of Particle Separation Impactor with an Additional Compound StructureSymposium 1: Functional Biosensors (FBB)M. Dominguez, Carmen; Niemeyer, ChristofAdditional Compound StructureSymposium 1: Functional Biomaterials and 1: Functional Biomaterials and BiosensorsM. Dominguez, Carmen; Niemeyer, ChristofOrigami-based Microfluidic Interface for Cell SignalingSymposium 1: Functional Biosensors (FBB)Schneider, Karl Heinrich; Enayati, Marjan); Rohringer, Sabrina; Grasl, Christian ; Almeria, Chiara ; Walter, Ingrid; Wojta, Johann; Schima, Heinrich; Hallstroem, Seth; Hodesser, BiosensorsIn-vitro and in-vivo evaluation of small- diameter nitric oxide- eluting biodegradable vascular graftsSymposium 1: Functional Biomaterials and BiosensorsIn-vitro and in-vivo evaluation of small- diameter nitric oxide- eluting biodegradable vascular graftsSymposium 1: Functional Biomaterials Biomaterials Admeria, Chara ;In-vitro and in-vivo evaluation of small- diameter nitric oxide- eluting biodegradable vascular graftsSymposium 1: Functional Biomaterials Biomaterials Adamura, Hiroyuki;Nanostructured boron carbide for cancer treatment by boron



		Elçin, Yaşar Murat;		
		Parmaksiz,		
		Mahmut; Vurat, Murat		
		Taner		
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	1: Functional Biomaterials	Ozge; Durkut, Serap	Magneto-Sensitive	
	and	Koç-Demir,	Decellularized Bone	
101	Biosensors	Aysel;	Matrix as a Regenerative	Destar
104	(FBB) Symposium	Elçin, Ayşe Eser	Biomaterial	Poster
	1: Functional	Uribe, Omar;		
	Biomaterials	Godinez, R;	Polypyrrole nanoparticles	
	and Biosensors	Morales, J.; Velasco, Myrian;	synthesized by plasma as promotors of rat	
105	(FBB)	Olayo, R.	pancreatic islets capsules	Oral
		Cardinell, Kirsten		
	Symposium	Lauren; Gupta, Neeru;		
	1: Functional	Zhou, Xun;		
	Biomaterials	Luciani, Paola;	A Systematic Approach to	
	and Biosensors	Kumaradas, Carl;	Compare Commercial Near-Infrared Dyes for	
106	(FBB)	Yucel, Yeni	Photoacoustic Imaging	Oral
	Symposium			
	1: Functional Biomaterials			
	and	Chen, Peng;		
	Biosensors	Wang, Chuanqi;	Dasatinib Nanocrystal and	
107	(FBB) Symposium	Le, Yuan	Nanotablets Double determination of	Poster
	1: Functional		long noncoding RNAs	
	Biomaterials	Li, Xiaoyan;	from lung cancer via multi-	
	and Biosensors	Peng, Gang; Chen, Xiaojun;	amplified electrochemical	
108	(FBB)	Huang, He	genosensor at sub- femtomole level	Oral
		Bertlein, Sarah		
	Symposium 1: Functional	Brown, Gabriella Lim, Khoon	Thiol-ene Clickable Gelatin as Bioink for	
	Biomaterials	Jüngst, Tomasz	Biofabrication: Expanding	
109	and	Tessmar, Jörg	the Fabrication Window	Oral



	Biosensors (FBB)	Hooper, Gary Woodfield, Tim Groll, Jurgen	through Macromolecular Cross-linkers	
110	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Blohbaum, Julia Berberich, Oliver Hölscher-Doht, Stefanie Albrecht, Krystyna Meffert, Rainer Tessmar, Jorg Blunk, Torsten Groll, Jurgen	Catechol-modified Poly(oxazoline)s with Tunable Degradability Facilitate Cell Invasion and Lateral Cartilage Integration	Poster
111	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Jungst, Tomasz Pennings, Iris Schmitz, Michael Rosenberg, A. J. W. P. Gawlitta, Debby Groll, Jurgen	Orchestrating cellular organization and phenotype in small diameter bi-layered vascular grafts by heterotypic scaffold design	Oral
112	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Shi, Aimin; Liu, Hongzhi; Chen, Qionglin; Wang, Qiang	Novel nanoliposomes for resveratrol through high pressure microfluidization: characterization and stability evaluation	Oral
113	Symposium 1: Functional Biomaterials and Biosensors (FBB)	Basu, Tarakdas; Nandy, Sanchita	Synthesis, Characterization and Anti- Shigellosis Potency of Cu- Ag Bimetallic Nanoparticle	Invited
114	Symposium 1: Functional Biomaterials and Biosensors (FBB)	ESMAEILI, AKBAR	Delivery of tissue plasminogen activator and streptokinase magnetic nanoparticles to target vascular diseases	Poster
115	Symposium 1: Functional Biomaterials and	Školoudík, Lukaš Chrobok, Viktor Kočí, Zuzana Popelář, Jiři Laco, Jan	The transplantation of hBM-MSCs increases bone neo-formation and preserves hearing function	Oral



	Biosensors	Filipová, Alžběta	in the treatment of	
	(FBB) Symposium	Filip, Stanislav	temporal bone defects.	
	1: Functional			
	Biomaterials		Biopolymeric Metal-Azo	
	and		Nanohybrids as Sensoring	
	Biosensors		Material for Toxic Water-	
116	(FBB)	Adewuyi, Sheriff	Soluble Anions	Oral
	Symposium			
	1: Functional	Workie, Yitayal	Fluorinated poly(ethylene	
	Biomaterials and	Admassu Imae, Toyoko	glycol)@graphene oxide platform for nitric oxide	
	Biosensors	Krafft, Marie	gas delivery system and	
117	(FBB)	Pierre	their antibacterial activity	Oral
	Symposium	MohammadiRoo		
	1: Functional	zbahani, Golbarg		
	Biomaterials	Chen, Xiaohan		
	and	Zhang, Youwen	Enzyme assisted	
440	Biosensors	H Soflaee, Mona	nanopore detection of	Orrel
118	(FBB)	Guan,	Zn(II) ions	Oral
			Diversifying structural and functional properties	
			hemicelluloses through	
	Symposium		manipulation of	
	1: Functional		pretreatment, extraction	
	Biomaterials		and modification	
	and	Chimphango,	conditions to produce	
	Biosensors	Annie Fabian	advanced biomaterials	. .
119	(FBB)	Abel	and biocomposites	Oral
		Saftics, Andras		
	Symposium	Türk, Barbara Gerecsei, Tamás		
	1: Functional	Sulyok, Attila		
	Biomaterials	Nagy, Norbert	Dextran-based hydrogel	
	and	Szekacs, Inna	layers for label-free	
	Biosensors	Kurunczi, Sándor	biosensing and cell	
120	(FBB)	Horvath, Robert	micropatterning	Oral
	Symposium		An electrochemical sensor	
	2: Functional		based on graphene	
	Composite Materiale	Dar Pivoz	nanosheets-zinc oxide	
121	Materials (FCM)	Dar, Riyaz Ahmad	composite coated glassy carbon electrode for the	Oral
121		Annau		



			sensitive determination of para-nitrophenol	
122	Symposium 2: Functional Composite Materials (FCM)	Dar, Riyaz Ahmad	Advances in electrochemical sciences: new approaches to environmental applications involving functionalized novel nanomaterials	Invited
123	Symposium 2: Functional Composite Materials (FCM)	Fang, Kaiyue; Fang, Fei; Yang, Wei	Hybridizing SWNT/PMMA/PVDF towards High- Performance Piezoelectric Nanofibers	Oral
124	Symposium 2: Functional Composite Materials (FCM)	Li, Qi	Nanodielectrics for High- Temperature Capacitive Energy Storage	Oral
125	Symposium 2: Functional Composite Materials (FCM)	Kozlowska, Justyna; Prus, Weronika; Stachowiak, Natalia	Modification of sodium alginate/starch films by addition of microspheres	Oral
126	Symposium 2: Functional Composite Materials (FCM)	An, Alicia	Enhanced ammonia recovery from wastewater using a MWCT/Nafion composite membrane	Oral
127	Symposium 2: Functional Composite Materials (FCM)	ALOthman, Zeid Abdullah; Yusuf, Kareem	Preparation of novel functionalizable polymeric monoliths for specific capillary liquid chromatographic separations	Poster
128	Symposium 2: Functional Composite Materials (FCM)	Amoresi, Rafael Aparecido Ciola Oliveira, Regiane Almeida, Priscila Zaghete, Maria A Sambrano, Julio Ponce, Miguel Longo, Elson	Growth of nickel oxide on CeO2 nanoparticles obtained in different morphologies applied as gas sensor	Poster



		Simões, Alexandre Z		
129	Symposium 2: Functional Composite Materials (FCM)	Mahajan, Prasad G. Dige, Nilam C. Vanjare, Balasaheb D. Lee, Ki Hwan	A potential mediator for photodynamic therapy based on Silver nanoparticles functionalized with porphyrin	Poster
130	Symposium 2: Functional Composite Materials (FCM)	Vanjare, Balasaheb D.; Mahajan, Prasad G.; Lee, Ki Hwan	A rhodamine based highly selective and sensitive "off- on" chemosensor for detection of Hg2+ metal ion in aqueous media	Poster
131	Symposium 2: Functional Composite Materials (FCM)	Zhai, Lei	Polymer Derived Ceramic Composites with Graphene	Oral
132	Symposium 2: Functional Composite Materials (FCM)	Dimitry, Onsy Ishak Mansour, Nahla Ahmed Saad, Azima Latif	Effect of Organic Modifier Loading on Particle Dispersion of Nanocomposites Based on Polyamide 6 and Natural Montmorillonite	Oral
133	Symposium 2: Functional Composite Materials (FCM)	Incedal, Ibrahim; Karabul, Yaşar; Kılıç, Mehmet; Içelli, Orhan; Güven Ozdemir, Zeynep	Negative Dielectric Constant Property of EuSr2CaCu2O6.5 Ceramic	Poster
134	Symposium 2: Functional Composite Materials (FCM)	Ozkan, Sermin Ilayda; Erdönmez, Seda; Kılıç, Mehmet; Karabul, Yaşar; Içelli, Orhan; Güven Ozdemir, Zeynep	Synthesis, Structural and Dielectric Characterization of Polyindole-Silver Nano Composites	Poster
135	Symposium 2: Functional Composite	Ongun, Isa Emin Karabul, Yaşar Çağlar, Mustafa Kılıç, Mehmet	Epoxy/WO3 Nano Composites as an Eco- Friendly Gamma Ray Shielding Materials	Oral



	Materials (FCM)	Güven Ozdemir, Zeynep Içelli, Orhan		
136	Symposium 2: Functional Composite Materials (FCM)	Kutelia, Elguja Bakhtiyarov, Sayavur Okrosashvili, Mikheil Tsurtsumia, Olga Bulia, Boris Bakhtiyarov, Akshin Eristavi, Besik	A Novel Functional Self- Healing Metallic Composite	Oral
137	Symposium 2: Functional Composite Materials (FCM)	Du, Xuemin	Bioinspired composite material-based actuators and their applications	Invited
138	Symposium 2: Functional Composite Materials (FCM)	Zhang, Lidong; Chen, Qing	Hollow hydrogel networks for temperature-controlled water fluidics	Invited
139	Symposium 2: Functional Composite Materials (FCM)	Zheng, Yongmei	Bioinspired wettability surfaces with micro- and nanostructures from design to functions	Invited
140	Symposium 2: Functional Composite Materials (FCM)	Yang, Ming	An Epidermis-like Hierarchical Smart Coating with a Hardness of Tooth Enamel	Oral
141	Symposium 2: Functional Composite Materials (FCM)	Shahzad, Humaira	Selective removal of radioactive cesium in water using magnetic Prussian blue graphene based nanomaterial	Poster
142	Symposium 2: Functional Composite Materials (FCM)	Wang, Feng Ding, Yanfen Zhang, Dongmin Yang, Mingshu	The effect of nanohybrid materials on the pour- point and viscosity depressing of waxy crude oil	Oral



	Symposium 2: Functional Composite	Wang, Fangfang;	Preparation and properties of an eco-friendly polyurethane conductive	
143	Materials (FCM)	Feng, Lajun; Lei, Ali	composite coating modified with MWCNTs	Oral
	Symposium 2: Functional Composite Materials	Sirohi, Sidhharth; Tripathi, Sandeep; Pani, Balaram;	Rapid Detection of Hg using Ag Incorporated	
144	(FCM)	Nain, Ratyakshi	Recycled Paper	Oral
145	Symposium 2: Functional Composite Materials (FCM)	Farooq, Umar; Sattar, Sadia; Imtiaz, Farhat; Myler, Peter	Low-velocity impact- induced damage and failure prediction of fibrous composite panels using data filtering, load- deflection, and absorbed energy approaches	Oral
146	Symposium 2: Functional Composite Materials (FCM)	Zhai, Zhe; Lei, Ali; Feng, Lajun; wang, Fangfang	Effect of Water Uptake on the Mechanical Properties of Flake Aluminum Powder Filled Epoxy resin Composites	Poster
1.47	Symposium 2: Functional Composite Materials	Saxena, Ankit;	Vibration Analysis of Functionally Graded Thin Plates with Linearly Varying Thickness using	Oral
147	(FCM) Symposium 2: Functional Composite Materials (FCM)	Mali, Kiran D. Gupta, Anju	Variational Method Hierarchical Porous Graphene/copper composites for Enhanced Phase Change Heat Transfer Applications	Oral
	Symposium 2: Functional Composite Materials	Couto Crisóstomo, Matheus; Gonçalez, Joaquim Carlos; Soares Del Menezzi, Claudio	Effect of Thermo- Mechanical Densification on Surface Properties of Commercial Oriented	
149	(FCM) Symposium	Henrique	Strand Boards Bio-sourced composites	Poster
150	2: Functional Composite	Benzerga, Ratiba;	for anechoic chamber absorbers	Oral



	Materials (FCM)	Méjean, Chloé; Sharaiha1, Ala		
151	Symposium 2: Functional Composite Materials (FCM)	Benzerga, Ratiba Méjean, Chloé Pometcu, Laura Badard, Mathieu Sharaiha, Ala Pouliguen, Philippe	Carbon fibers based epoxy foam composites for electromagnetic absorption	Invited
152	Symposium 2: Functional Composite Materials (FCM)	Benzerga, Ratiba Laur, Vincent Lebullenger, Ronan Le Gendre, Laurent Queffelec, Patrick Sharaiha, Ala	Carbon based glass foam composites for high power microwave absorption	Oral
153	Symposium 2: Functional Composite Materials (FCM)	Abtew, Mulat Alubel Boussu, François Bruniaux, Pascal Loghin, Carmen Cristian, Irina Chen, Yan Wang, Lichuan	Three-dimensional (3D) warp interlock p-aramid fabrics for the development of seamless female soft body armour with better flexibility and ballistic impact performance	Oral
154	Symposium 2: Functional Composite Materials (FCM)	Zhao, Tingkai	Facile preparation and high capacitance performance of copper sulfide microspheres as supercapacitor electrode material	Oral
155	Symposium 2: Functional Composite Materials (FCM)	Zhang, Shanju	Aligned carbon nanotube- polymer nanocomposite membranes via liquid crystalline templating for desalination and decontamination	Oral
156	Symposium 2: Functional Composite	Ram, Paras; Walia, Mittu; Paras, Neha	MHD Nanofluid Heat Transfer between Parallel Plates with	Oral



	Materials (FCM)		Thermophoretic Diffusion and Viscous Dissipation	
157	Symposium 2: Functional Composite Materials (FCM)	Zakarian, Dora	Temperature dependence of the modulus of elasticity of materials	Poster
158	Symposium 2: Functional Composite Materials (FCM)	Bao, Dan Qiu, Zhengsong Zhong, Haiyi Zhao, Xin Chen, Ganghua	Preparation and study on core-shell structure composite lost circulation material based on shape memory alloy in drilling engineering	Oral
159	Symposium 2: Functional Composite Materials (FCM)	Jen, Ming-Hwa R.; Guo, Guan-Ting; Wu, Ying-Hui; Chen, Ying-Jing	Fatigue Responses of Ti/APC-2 Nanocomposite Laminates with Inclined Cracks at Elevated Temperature Part I: Experiments	Oral
160	Symposium 2: Functional Composite Materials (FCM)	G, Manasa Mascarenhas, Ronald Jerald Satpati, Ashis K Basavaraja, Basavanakote M Kumar, Sriram	ZnO/G nano composite and CTAB surface modified carbon paste electrode architecture as an electrochemical sensor for the detection of endocrine disruptor Bisphenol F	Oral
161	Symposium 2: Functional Composite Materials (FCM)	Al-Shakarchi, Emad	The Optimum Conditions in Preparation of BaTi2O5 Nanostructure by Hydrothermal Method	Invited
162	Symposium 2: Functional Composite Materials (FCM)	He, Zhiyuan; He, Ximin	Bioinspired Materials for Controlling Ice Nucleation, Growth, and Recrystallization	Oral
163	Symposium 2: Functional Composite Materials (FCM)	Chen, Chiatai Li, Yifan Meshot, Eric Bui, Ngoc Zhu, Rong Herbert, Myles	Stimuli-Responsive Carbon Nanotube Membranes for Chemical Warfare Protection	Oral



		Park, Sei Jin Buchsbaum, Steven Jue, Melinda Wu, Kuang Jen Swager, Timothy M. Fornasiero, Francesco		
164	Symposium 2: Functional Composite Materials (FCM)	Ji, Zhongying Hua, Dechuan Li, Yuandong Wang, Xiaolong	3D printing of shape- morphing architectures from bilayer to homogeneous material	Oral
165	Symposium 2: Functional Composite Materials (FCM)	Guo, Zhaoxia; Li, Hansong; Zhang, Qiyan; Zhang, Boyuan; Yu, Jian	Highly efficient conductive networks formed by selective localization of carbon black at the interface of sea-island structured polymer blends	Poster
166	Symposium 2: Functional Composite Materials (FCM)	Shanmuganatha n, Kadhiravan Ram, Farsa Yadav, Prashant Ambone, Tushar Kadam, Sandeep	Nanocellulose based Functional Composite Materials	Oral
167	Symposium 2: Functional Composite Materials (FCM)	Yaghoubi, Mahmood; Hormozi, M.; Fosehat, S	Development of nano- structured hybrid hydrophobic-hydrophilic surface to improve condensation heat transfer	Oral
168	Symposium 2: Functional Composite Materials (FCM)	Głuchowski, Wojciech; Rdzawski, Zbigniew; Maleta, Marcin; Domagała- Dubiel, Justyna	Cu-Bi multifiber composite wire	Oral
169	Symposium 2: Functional Composite Materials (FCM)	Zhang, Yufan; Li, Zhong; Zhou, Xin	Zirconium-Bipyridine MOF for the Selective Separation of Propane from Propylene	Oral



170	Symposium 2: Functional Composite Materials (FCM)	Yang, Xingyun Sun, Mo Bian, Yinxu He, Ximin	A Room-temperature High-conductivity Metal Printing Paradigm with Visible-light Projection Lithography	Oral
170	Symposium 2: Functional	Nguyen, Ngoc A.; Bowland, Christopher C.;		
171	Composite Materials (FCM)	Keum, Jong K.; He, Lilin; Naskar, Amit K.	Multifunctional 3D-printing materials from modified lignins	Oral
172	Symposium 2: Functional Composite Materials (FCM)	Hua, Mutian Choi, Jaeho He, Ximin	Reconfigurable surface for encryption and anti- counterfeiting	Oral
172	Symposium 2: Functional Composite Materials (FCM)	Zhang, Qi Zheng, Ruilin Ding, Jianyong Wei, Wei	Novel glass-in-LuAG ceramic with excellent luminous efficiency and high thermal stability for laser-diode-pumped phosphor	Oral
174	Symposium 2: Functional Composite Materials (FCM)	Phasuksom, Katesara; Sirivat, Anuvat	Graphene Based Materials/Polyindole Composites for Methanol Sensor	Poster
175	Symposium 2: Functional Composite Materials (FCM)	Yuan, Binqin; Li, Hao; Zhou, Xin; Tang, Yuning; Peng, Junjie; Li, Zhong	Room-Temperature Synthesis of novel TED@HKUST-1 with enhanced water vapor stability for CO2 capture	Oral
176	Symposium 2: Functional Composite Materials (FCM)	Changkhamcho m, Sairung; Sirivat, Anuvat	Sulfonated (graphene oxide/Poly(ether ketone ether sulfone)(S-GO/S- PEKES) composite polymer exchange membrane for DMFC	Poster
177	Symposium 2: Functional Composite	Choeichom, Pongpol; Sirivat, Anuvat	Poly(p-phenylene) and its Composites with ZSM-5, BETA, and 13X Zeolites	Poster



	Materials		as Selective Sensing	
	(FCM)		Material for Sulfur Dioxide Electro-Responsive	
	Symposium		Material Based on	
	2: Functional		Multiwall Carbon	
	Composite	Thummarungsan	Nanotube/ Poly(lactic	
	Materials	, Natlita;	acid) Composites for	
178	(FCM)	Sirivat, Anuvat	Using as	Poster
	Symposium		Transparent encapsulation	
	2: Functional		material using methyl-	
	Composite	Im, Hyeon-Gyun;	methacryl oligosiloxane	
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179	(FCM)	Kang, Dong Jun	electrochromic devices	Poster
		Chowdhury,		
		Aminur Rashid		
		Abdullah, Abu		
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	2: Functional	Hussain, Istiak	Li-ZnO Nanowire/Polymer	
	Composite	Mao, Yuanbing	Nanocomposite Based	
400	Materials	Danti, Serena	Piezo-Tribo Hybrid	
180	(FCM)	Uddin, M. Jasim	Nanogenerator	Oral
	Symposium		Tropoporont thisotropic	
	2: Functional Composite	Kang, Dong Jun;	Transparent, thixotropic, and adhesive	
	Materials	Park, Hyo Yul;	encapsulation for	
181	(FCM)	Im, Hyeon-Gyun	optoelectronic devices	Poster
101	Symposium			1 03(01
	2: Functional	Chaudhari, Vikas	Modeling of short fiber	
	Composite	Vinayak;	reinforced composite	
	Materials	Dixit, Swadesh	using Extended Finite	
182	(FCM)	Sandesh	Element Method (XFEM)	Oral
	Symposium	Kwon, Wooteck;	SiC-conversion coating	
	2: Functional	Ahn, Su-Bin;	prepared from silica sol for	
	Composite	Lee, Yoonjoo;	improving oxidation	
	Materials	Kim, Younghee;	resistance of carbon-fiber	
183	(FCM)	Kim, Jung Hyun	composites	Poster
		Fan, Junmei;	Ultralow thermal	
	Symposium	Hui, Si;	conductivity in graphene-	
	2: Functional	Bailey, Trevor P.;	oxide porous ceramics	
	Composite	Page, Alexander;	with special saucer	
	Materials	Uher, Ctirad;	structure of graphene	Qual
184	(FCM)	Yuan, Fangli	aerogels	Oral



405	Symposium 2: Functional Composite Materials	Aziz, Fakhra Roslan, Nur Adilah Sulaiman, Khaulah Supangat,	Characterization of coplanar capacitive type humidity sensor fabricated using a composite thin film	Oral
185	(FCM) Symposium 2: Functional Composite Materials (FCM)	Azzuliani Abareshi, Afsaneh Houshiar, Mahboubeh Nafisi, Shohreh Nafisi, Shohreh Samadi, Naghmeh	of PTB7-Th:VOPcPhO Two –dimensional MoS2 Nanosheets Decorated by Gold Nanorods for Photothermal Theraphy	Oral
187	Symposium 2: Functional Composite Materials (FCM)	Alothman, Zeid Abdullah; Wabaidur, Saikh Mohammad	Adsorption, kinetics and thermodynamics studies of removal of atrazine herbicide using composite nanomaterials	Poster
188	Symposium 2: Functional Composite Materials (FCM)	Fono-Tamo, Romeo Sephyrin; Tien-Chien, Jen	First principles calculation of the structure and magnetic ordering in ErF3	Oral
189	Symposium 2: Functional Composite Materials (FCM)	Ghosh, Sandip; Chiang, Wen Cheng; Chattopadhyay, Surojit	Ultrasensitive broadband photodetector using electrostatically conjugated MoS2- upconversion nanoparticles nanocomposite	Oral
190	Symposium 2: Functional Composite Materials (FCM)	LEE, Sang Heon	Electromagnetic properties of YBCO superconducting composite for magnet application	Poster
191	Symposium 2: Functional Composite Materials (FCM)	Łaszcz, Amadeusz; Hasiak, Mariusz; Kaleta, Jerzy	Microstructure, magnetic behavior and nanomechanical characterization of NiMnGa-based multifunctional	Oral



			for any second state of the second	
			ferromagnetic shape	
			memory alloys	
			Temperature Stable Novel	
	Symposium		Porous Coordination	
	2: Functional		Polymer (PCP) based	
	Composite		artificial Lotus Leafs for	
	Materials	Koya,	Applications in Energy and	
192	(FCM)	Prabhakara Rao	Environment	Oral
		Kaluzny,		
		Jaroslaw		
		Kempa,		
		Krzysztof		
		Kulczycki,		
		Andrzej Runka,		
		Tomasz		
		Nowicki, Marek		
		Piasecki, Adam		
		Gapinski,		
		Bartosz		
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	2: Functional	Stepanenko,	A novel Carbon	
	Composite	Aleksander	Nanotubes based grease	
	Materials	Gallas, Dawid	formulation and its unique	
193	(FCM)	Merkisz, Jerzy	lubricating performance	Oral
	Symposium		The setting and	
	2: Functional	Liu, Chuanbei	rheological behavior of	
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	Materials	Zhao, Yasong	composites used for 3D	
194	(FCM)	Chen, Xuemei	robocasting	Oral
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	2: Functional			
	Composite	Jahid, Md	Nanocomposite	
	Materials	Anwar;	membrane for human	
195	(FCM)	Hu, Jinlian	thermoregulation	Oral
	(Release control on the	
			specific surface area of	
	Symposium		rice husk silica	
	2: Functional	Song, Sinae	immobilized in	
	Composite	Choi, Guijun	polycaprolactone	
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196	(FCM)	Kim, Heetaik	electrospinning.	Poster
100	Symposium	Chen, Jianheng;	Developing a multiple-	
197	2: Functional	Lu, Lin;	layer functional coating for	Oral
131		LU, LIII,	ayer functional coating for	



	Composite Materials (FCM)	Zhong, Hong; Ji, Yaxiong	buildings in hot and humid regions to achieve passive cooling and energy saving	
198	Symposium 2: Functional Composite Materials (FCM)	Hussainova, Irina; Saffarshamshirg ar, Ali; Ivanov, Roman	Multi-gradient electroconductive alumina	Oral
199	Symposium 2: Functional Composite Materials (FCM)	Domagała- Dubiel, Justyna Janicki, Damian Bilewska, Katarzyna Głuchowski, Wojciech	Microstructure and properties of copper matrix composites fabricated by laser surface alloying	Oral
200	Symposium 2: Functional Composite Materials (FCM)	Fonseca, Jessica de Matos Soares, Lenilton Santos Valencia, German Ayala Campos, Carlos Eduardo Maduro Moreira, Regina FPM Monteiro Fritz, Alcilene Rodrigues	Development and characterization of HPMC- TiO2 and Gelatin- TiO2 nanocomposites as ethylene scavengers for climacteric fruit application	Poster
201	Symposium 2: Functional Composite Materials (FCM)	Vieira, Ana Carolina Flôr; Fonseca, Jéssica de Matos Fonseca, Germán Ayala Valencia; Valencia, Germán Ayala; Monteiro Fritz, Alcilene Rodrigues	Antimicrobial activity and ethylene scavenging of food packaging based on hydroxypropyl methylcellulose and silver nanoparticles	Poster
202	Symposium 2: Functional	VISA, Maria	Nanocomposite WO3- TiO2 /fly ash with dual	Oral



	Composite		functionality in	
	Materials		simultaneous removal of	
	(FCM)		pollutants from wastewater	
		Abareshi,	Spinel Ferrites with	
	Symposium	Afsaneh;	different Combustion	
	2: Functional	Jamilpanah,	Temperature: A	
	Composite	Loghman;	comparison study of	
	Materials	Houshiar,	Structural and Magnetic	
203	(FCM)	Mahboubeh	Properties	Oral
	Symposium	Muusius esti	Structural, vibrational and	
	2: Functional	Muniyandi, Muneeswaran;	enhanced the	
	Composite Materials	Akbari	magnetoelectric properties of BiFeO3-CoFe2O4	
204	(FCM)	Fakhrabadi, Ali	nanocomposites	Oral
	<u> </u>		Design and synthesis of a	
			green, smart and	
	Symposium		recyclable	
	2: Functional		bionanocomposite for	
	Composite	Ramalingam,	concomitant recovery and	
005	Materials	Dineshkumar;	disruption of microalgal	
205	(FCM)	Sen, Ramkrishna	biomas	Oral
	Symposium	Falcao, Evaristo Alexandre;		
	2: Functional	Capetta, Rodrigo		
	Composite	Felipe Carneiro;	Synthesis and	
	Materials	Botero, Eriton	Characterization of	
206	(FCM)	Rodrigo	PVDF/KNN composites	Poster
		Falcao, Evaristo		
		Alexandre		
		Aguiar, Lais		
		Weber Carvalho,		
		Claudio Teodoro		
		Botero, Eriton Rodrigo		
	Symposium	Rinaldi,		
	2: Functional	Andrelson		
	Composite	Wellington	Study of the Optical	
	Materials	Guo, Ruyan	Properties of Neodymium	
207	(FCM)	Bhalla, Amar S	Doped PVDF	Poster
	Symposium	Dhaoui, Wadia;	Polyaniline-barium ferrite	
	2: Functional	Ben Ghzaiel,	composites: An	
208	Composite	Tayssir;	optimization study for high	Oral



	Materials (FCM)	Mazaleyrat, Frédéric	efficiency microwave absorption	
209	Symposium 2: Functional Composite Materials (FCM)	Kim, Cheolgyu; He, Ximin	Modeling of stimuli- responsive hydrogel using FEM simulation	Oral
210	Symposium 2: Functional Composite Materials (FCM)	Xu, Yixuan Kim, Cheolgyu Rico, Rossana Sun, Mo He, Ximin	Multi-responsive Hydrogels as Flexible Strain Sensor and Actuator	Oral
211	Symposium 2: Functional Composite Materials (FCM)	Jung, Dahee Spokoyny, Alexander	Boron-rich Clusters as Molecular Cross-linkers for Hierarchical Hybrid Materials	Oral
212	Symposium 2: Functional Composite Materials (FCM)	Zharov, Ilya	Functional nanoporous materials from assembly of polymer-brush nanoparticles	Oral
213	Symposium 2: Functional Composite Materials (FCM)	Cheng, Xianhua; Yip, Kwok Chuo Willis	Rare Earth Modified Carbon Nanotube-Carbon Fiber Multi-scale Reinforced Polymer Composite	Oral
214	Symposium 2: Functional Composite Materials (FCM)	Klink, Michael John	The characterization and determination of Zinc Oxide, Silver and Silver- Zinc Oxide nanoparticles exposed to extracts of Cotyledon Orbiculata and their antimicrobial activity in wastewater	Oral
215	Symposium 2: Functional Composite Materials (FCM)	Kim, Jae Hyun Park, Dongsung Hwang, Kyo Seon	Size-controlled Polyaniline (PANI) Nanofibers for Biosensor Application	Poster
216	Symposium 2: Functional Composite	Klink, Michael John	The Synthesis and Characterization Cobalt Nanoparticles and their	Poster



	Materials (FCM)		Anti-Microbial Activity against Selected	
	Symposium		Waterborne Pathogens	
	Symposium 2: Functional		Materials on Indigenous	
	Composite	A.N, Nagashree;	Natural Esters for use as	
	Materials	Vedvyas,	an Alternate Liquid	
217	(FCM)	Champa	Dielectric Coolant	Oral
	Symposium		Breakdown Behaviour of	
	2: Functional		Indigenous Natural Esters	
	Composite	VedVyas,	as a blend for use as an	
040	Materials	Champa;	Ecofriendly Dielectric	
218	(FCM)	AN, Nagashree	Coolant	Oral
	Sumposium		Self-Assembling Silver	
	Symposium 2: Functional		Nanoparticles on Surface of Activated Carbon as	
	Composite		SERS Substrate for	
	Materials		Detection of	
219	(FCM)	Du, Shuhu	Formaldehyde	Poster
			The nanohybrid fibers	
	Symposium		composed of TiO2	
	2: Functional		nanoparticles and carbon	
	Composite		nanotubes for sustainable	
	Materials	Kim, Young-	mechanical properties	
220	(FCM)	Kwan	under harsh conditions	Poster
		Pol, Harshawardhan		
		Marathe, Deepti		
		Rokade,		
	Symposium	Dhammaraj		
	2: Functional	Chougale,	Influence of Melt Blending	
	Composite	Sanket	on Controlling of Defects	
	Materials	Joshi, Sagar	in Polyolefin Melt	
221	(FCM)	Vaidya, Mayuri	Processing	Oral
	Symposium			
	2: Functional	Wang,		
	Composite	Dongfang;		
222	Materials (FCM)	Wu, Yongkang; Zhang, Guoping	Superhydrophobic Cementitious Materials	Poster
		Zhang, Guoping Agwuncha,		
	Symposium	Stephen	Extraction of Cellulose	
	2: Functional	Owonubi,	from Vitellaria paradoxa	
223	Composite	Shesan	agro-waste for possible	Oral



	Materials (FCM)	Revaprasadu, Neerish	Water Filtration Polymer Composite preparation	
224	Symposium 2: Functional Composite Materials (FCM)	Salih, Watheq Kareem	Fire resistance, thermal stability and mechanical properties of PVA nanocomposite filled with modified nano Iraqi Ca- bentonite for packaging applications	Oral
225	Symposium 2: Functional Composite Materials (FCM)	Kaczmar, Jacek Wladyslaw; Naplocha, Krzysztof; Dmitruk, Anna; Grzeda, Jakub	The effect of Al-based cellular structure on the thermal performance of the zeolite based hybrid heat accumulator	Oral
226	Symposium 2: Functional Composite Materials (FCM)	Lodhi, Pavitra Devi Kaurav, Netram Choudhary, Kamal Kumar Kuo, Y. K.	Measurement and analysis of thermoelectric properties of FeSe superconductor	Invited
227	Symposium 2: Functional Composite Materials (FCM)	Butt, Ayesha Siddique	Fabrication of Cross- linked Pectin Hydrogel for Control Drug Delivery Application	Poster
228	Symposium 2: Functional Composite Materials (FCM)	Yuan, Chenglong Lou, Zhichao Zhang, Yao Wang, Weikai Yang, Lintian Li, Yanjun	One-pot synthesis of a lightweight effective electromagnetic wave absorber, Fe/Fe3O4@C, via in situ carbonization of Fe3O4-lignin framework	Oral
229	Symposium 2: Functional Composite Materials (FCM)	Kuo, Chil- Chyuan; Zhu, Yi-Jun; Wu, Ying-Zhi; You, Zheng-Yan	A cost-effective approach using recycled materials for rapid manufacturing ultra-large injection mold with conformal cooling channels	Oral
230	Symposium 2: Functional Composite	Alduhaish, Osamah Mohammed O	Metal–Organic Framework with Trifluoromethyl Groups for Selective	Poster



	Materials (FCM)		C2H2 and CO2 Adsorption	
231	Symposium 2: Functional Composite Materials (FCM)	Shtein, Michael; Nadiv, Roey; Buzaglo, Matat; Regev, Oren	Enhancing Thermal Conductivity of Polymers	Oral
232	Symposium 2: Functional Composite Materials (FCM)	Birenboim, Matan	Reinforcement and workability aspects of graphene-oxide-reinforced cement nanocomposites	Poster
233	Symposium 2: Functional Composite Materials (FCM)	Guan, Xinchun Zhang, Chenchen Li, Hui Ou, Jinping	Effect of cementitious capillary crystalline waterproofing materials on self-healing behavior of strain hardening cementitious composites	Oral
234	Symposium 2: Functional Composite Materials (FCM)	Meng, Shanyu; Partow, Arianna; Tong, zhaohui	Lignin-based and disulfate-linked aerogel as a selective, controllable, reusable superabsorbent	Oral
235	Symposium 2: Functional Composite Materials (FCM)	Kim, Junhyung Hwang, Yujin Jeong, Sunho Lee, Su Yeon Choi, Youngmin Jung, Sungmook	An elastomer for epidermal electronics with adjustable adhesion force and stretchability obtained via a reverse-micelle- induced process	Poster
236	Symposium 2: Functional Composite Materials (FCM)	Ali, Mohammed	Fabrication and Properties of Porous Alumina Ceramics Using Graphite Waste as a Pore Forming Agent	Oral
237	Symposium 2: Functional Composite Materials (FCM)	Tan, Guolong; Feng, Yuan; Li, Xue; Tewelde, Daniel	Antiferroelectric and Magnetodielectric Coupling Response of La0.2Sr0.7Fe12O19 Ceramics	Invited
238	Symposium 2: Functional Composite	Fang, Daining	Smart structures and 4D printing	Plenary



	Materials (FCM)			
239	Symposium 2: Functional Composite Materials (FCM)	Hai, Chunxi Qi, Guicai Zhou, Yuan Shen, Yue Sun, Yanxia Dong, Shengde Li, Xiang	Preparation of Uniformly Dispersed Mn-based Oxide Ion Sieves with High Adsorption Capacity and Selectivity for Lithium separation from Brine	Poster
240	Symposium 2: Functional Composite Materials (FCM)	Mu, Xueliang; Liu, Shuai; Chen, Yipei; Wu, Tao	Self-assembly Composites of HKUST-1 MOFs with MoS2 for CO2 adsorption	Oral
241	Symposium 2: Functional Composite Materials (FCM)	Bilen, Onur Alkan, Ümit Kiliç, Mehmet Karabul, Yaşar Güven Özdemir, Zeynep	Mechanical and AC Electrical Properties of Low-Density Polyethylene/BiSr2CaCu2 O6.5 Thick Film Composites	Poster
242	Symposium 2: Functional Composite Materials (FCM)	Boshkov, Nikolai Stoyanov Boshkova, Neli Dimitrova Kamburova, Kamelia Pavlova Tabakova, Nadezhda Vladimirova Radeva, Tsetska Borisova	Hybrid Zn coatings with incorporated modified PANI particles – preparation and corrosion characterization	Oral
243	Symposium 2: Functional Composite Materials (FCM)	Liu, Xiaojing; Lu, Yangcheng	Tailoring emulsion polymerization for high- yield synthesis of Tween 80 stabilized magnetic polystyrene nanocomposite particles	Oral
244	Symposium 2: Functional Composite Materials (FCM)	Arat, Refik	PS/Silica Aerogel Nanofibers Production for Thermal Insulation	Poster



	Symposium		On Hashin's bounds for	
	2: Functional			
	Composite	Sburlati,	elastic properties of spherical particle-	
	Materials	Roberta;		
245		,	reinforced composites with	Oral
245	(FCM)	Cianci, Roberto	graded interphase	Oral
	Symposium		Study on the effect of	
	2: Functional	Feng, Keqin;	electric current on the W-	
	Composite	Zhou, Hongling;	Mo-Cu composites rapidly	
0.40	Materials	Liu, Yanfang;	prepared by large current	
246	(FCM)	Ke, Sixuan	electric field sintering	Oral
		XIE, XINYUAN		
	. .	Peng, Jiehui		
	Symposium	Zheng, Shiqi		
	2: Functional	Cao, Chezheng		
	Composite	Lin, Ting-Chiang	Nanoparticles Reinforced	
	Materials	Xie, Weiguo	Silica Gels: Structure and	
247	(FCM)	Li, Xiaochun	Properties	Oral
		Li, Xiang;		
		Zhou, Yuan;		
	Symposium	Hai, Chunxi;	Mechanical Properties and	
	2: Functional	Ren, Xiufeng;	Thermal Stability of Basalt	
	Composite	Zeng, Jinbo;	Fiber Reinforced	
	Materials	Shen, Yue;	Magnesium Oxychloride	
248	(FCM)	Sun, Yanxia	Cement	Poster
	Symposium			
	2: Functional			
	Composite			
	Materials	Wu, Xu;	Coatings with crude oil	
249	(FCM)	Zhang, Yichun	repellency	Oral
	_	Kim, Taehee;	The Synthesis of	
	Symposium	Kim, Miri;	Branched Amines with	
	2: Functional	Lee, Wonjoo;	polyether and the Studies	
	Composite	Lim, Choong-	of Physical Properties of	
	Materials	Sun;	Epoxy Composites	
250	(FCM)	Seo, Bongkuk	Including the Amines	Poster
			PHOTODEGRADATION	
			OF ORGANIC DYES	
			USING COBALT-BASED	
	Symposium	Makhetha,	METAL ORGANIC	
	2: Functional	Thollwana;	FRAMEWORK (ZIF-67)	
	Composite	Moutloali,	CATALYSTS	
	Materials	Richard	SUPPORTED ON	
251	(FCM)	Motlhaletsi	GRAPHENE OXIDE	Oral



			UNDER SIMULATED SOLAR IRRADIATION	
252	Symposium 2: Functional Composite Materials (FCM)	amin, noorul ghani, usman gul, saeed	oral presentation	Rejected
253	Symposium 2: Functional Composite Materials (FCM)	Tan, Mei Chee Zhao, Xiny Sun, Yang Chen, George He, Chaobin Tan, Dawn	Infrared Emitting Photonic Composites for Polymeric Waveguide Amplification	Oral
254	Symposium 2: Functional Composite Materials (FCM)	Corinaldesi, Valeria; Donnini, Jacopo	Cement-based composites with Short Carbon Fibers for Self Sensing Properties	Oral
255	Symposium 2: Functional Composite Materials (FCM)	Kocich, Radim Kunčická, Lenka Strunz, Pavel Ryukhtin, Vasyl Kempny, Michal Macháčková, Adela	Innovative Cu/Al laminated composite wire conductors: effect of rotary swaging on electric properties and structural characteristics	Oral
256	Symposium 2: Functional Composite Materials (FCM)	Danfeng, Yu Jianjia, Huang Xu, Wu Xiubin, Xu Hui, Yang	Ultra-high flux and efficient oil-water separation via polymer-based electrophoretic deposition	Poster
257	Symposium 2: Functional Composite Materials (FCM)	Steffen, Werner; Lijun, Ye; Fei, Chen; Liu, Jie; Gao, Aiting; Kircher, Gunnar; Mars, Julian; Asadi, Kamal; Mezger, Markus; Kappl, Michael; Wegner, Seraphine;	Responsive lonogel with Switchable Surface Properties	Oral



		Butt, Hans- Jürgen		
258	Symposium 2: Functional Composite Materials (FCM)	Ye, Xinli Chen, Zhaofeng Zhang, Junxiong ZHou, Qian bo	Three-dimensional reticulation SiC/porous carbon foam aerogel composites for thermal insulation devices	Oral
259	Symposium 2: Functional Composite Materials (FCM)	Yang, Wanmin	Theoretical and numerical calculation of trapped field distribution of single domain GdBCO bulk and ring superconductors by Gd+011 TSIG methods	Oral
260	Symposium 2: Functional Composite Materials (FCM)	Yang, Wanmin	Theoretical and numerical calculation of trapped field distribution of single domain GdBCO bulk and ring superconductors by Gd+011 TSIG methods	Oral
261	Symposium 2: Functional Composite Materials (FCM)	Wu, Cao chen, zhaofeng	Graphene oxide/ phenolic resin nanocomposite fibers with high-strength, towards and dielectric tunable performance	Oral
262	Symposium 2: Functional Composite Materials (FCM)	YOU, Fei ZHANG, Yu WANG, Zhenhua XU, Zhiliang SUN, Wei	Developments of Fiber- reinforced Composites Applied in Wind Turbines and Their Thermal and Fire Safety Issues	Invited
263	Symposium 2: Functional Composite Materials (FCM)	Liu, jie	Elastic Superhydrophobic and Photocatalytically Active Films used as Blood Repellent Dressing	Oral
264	Symposium 2: Functional Composite Materials (FCM)	Rohan, Eduard; Lukeš, Vladimír; Heczko, Jan	Multiscale modelling of Piezoelectric Porous Architectures for design of smeared peristaltic fluid pumps	Oral
265	Symposium 2: Functional Composite	Ma, Yan; Yang, Anxia; Niu, Fenglei; Zhu, Huiping;	Effects of Bi2O3 addition on the Mechanical properties of PbO	Poster



	Materials	Liu, Fang;	ceramics in Lead-cooled	
	(FCM)	Guo, Zhangpeng	fast reactor	
		Fan, Wusheng (1,2);		
	Symposium	Feng, Ni		
	2: Functional	Chen,	Carbon nanotube-based	
	Composite	Guangming	composites and their	
	Materials	Liang, Lirong	thermoelectric	
266	(FCM)	Guo, Cun-Yue	performance	Invited
200	Symposium		ponormanoo	invitod
	2: Functional			
	Composite		Multifunctional Properties	
	Materials	Kumar, Pragati	of CdS:SiO2	
267	(FCM)	Saxena, Nupur	Nanocomposite Thin Films	Invited
	Symposium			
	2: Functional	Yang, Zenghui;		
	Composite	Wang, Chao;	Tough and strong	
	Materials	Wang, Tingmei;	thermoset shape memory	
268	(FCM)	Wang, Qihua	polyimides	Poster
	Symposium		Molecular Dynamics	
	2: Functional	Sharma, Sumit;	Simulation of SiC-	
	Composite	Kumar, Pramod;	Graphene Reinforced	
	Materials	Chandra,	Aluminum Hybrid	
269	(FCM)	Rakesh	Composites	Oral
	Symposium		Magnesium	
				. .
270	(FCM)		characterization	Oral
			5	
			5 5	
074		0, 0		Oral
2/1				Ulai
	Symposium	•		
			Eco-friendly composite	
		•		
	(FCM)	Halina		Poster
272				
272	Symposium	Akinlabi, Basit	The use of modified cocoa	
270	Symposium 2: Functional Composite Materials (FCM) Symposium 2: Functional Composite Materials (FCM) Symposium 2: Functional Composite Materials	Nasar, Gulfam Tang, Zhichuan Qiu, Zhengsong Zhong, Hanyi Guo, Baoyu Wang, Xudong Kang, Yujie Stachowiak, Natalia; Kozlowska, Justyna; Kaczmarek,		Oral Oral Poster



	Composite Materials (FCM)	Akinlabi, Akinola Kehinde; Bello, Olalekan H	weight natural rubber compounding.	
274	Symposium 2: Functional Composite Materials (FCM)	Mohd Sani, Mohd Syahrul Hisyam; Muftah, Fadhluhartini; Osman, Ahmad Rasidi	A Review and Preliminary Study of the Composite Section Incorporated with Cold-formed Steel and Oriented Strand Board	Oral
275	Symposium 2: Functional Composite Materials (FCM)	Wang, Huan	Synthesis and Application of Thermoviscosifying High Molecular Polymer	Poster
276	Symposium 2: Functional Composite Materials (FCM)	Ahmad Saffian, Harmaen Talib, Mohd Aizam Mohamad Asa'ari, Ainun Zuriyati Md Tahir, Paridah Lee, Seng Hua	Mechanical, Thermal and Dielectric Properties of Poly Propylene Blended with Lignocellulosic for Insulating Biocomposites Material	Oral
277	Symposium 2: Functional Composite Materials (FCM)	Lee, Seng Hua; Ahmad Saffian, Harmaen; Md Tahir, Paridah	Physico-mechanical and biological properties of citric acid bonded rubberwood particleboard	Oral
278	Symposium 2: Functional Composite Materials (FCM)	Panwar, Anjali Malik, Vikas Sonnathi, Neeleshwar Bagga, Anjana	Deciphering the Route to Blinking Metal phase of electrical conductivity in touching semiconductor nanocrystals.	Poster
279	Symposium 2: Functional Composite Materials (FCM)	颖, 许	The effect of defect size on the integrity of CFRP- confined concrete column	Oral
280	Symposium 2: Functional	Majumder, Sumit;	Multifunctional Reduced Graphene Oxide (RGO)	Oral



	Composite Materials	Satpati, Biswarup;	Wrapped Circular Au Nanoplatelets: Enhanced	
	(FCM)	Banerjee, Sangam	Photoluminescence, Surface Enhanced Raman Scattering, Photocatalytic Water Splitting and Non- enzymatic Biosensors	
281	Symposium 2: Functional Composite Materials (FCM)	AIGBODION, VICTOR SUNDAY; Ezema, I.C	Novel Multifunctional PKSAnp/A356 alloy composites Synthesis by DLF-SCM	Oral
282	Symposium 2: Functional Composite Materials (FCM)	Kavousian, Sheeva; Alam, Parvez	Honeycomb structures: how accurate does Nature, and indeed engineering, have to be?	Oral
283	Symposium 2: Functional Composite Materials (FCM)	ElEmbaby, Abeer Nassar, Mohamed	Innovative bioactive resin infiltrant	Oral
284	Symposium 2: Functional Composite Materials (FCM)	Pengbiao, Geng	Transition Metal Sulfides Based on Graphene for Electrochemical Energy Storage	Poster
285	Symposium 2: Functional Composite Materials (FCM)	Ferreira, Paula	Cytocompatible chitosan- based bionanocomposites with antioxidant, electrically-conductive and superparamagnetic properties	Invited
286	Symposium 2: Functional Composite Materials (FCM)	yao, lei; wu, zhonghua	Temperature Dependence Interface Layer Structural Evolution of Composite Films by SAXS	Poster
287	Symposium 2: Functional Composite Materials (FCM)	ZHANG, Junying Zheng, Kaiweng Zou, Qi Yang, Yacheng	The Chromogen, Structure, and Applications of a Photo , pH , thermal , Solvent-,	Oral



		Mao, Yingzhu Cheng, Jue	and Mechanical-Response Epoxy Resin	
288	Symposium 2: Functional Composite Materials (FCM) Symposium 2: Functional Composite Materials	CHENG, Jue; LIAN, Qingsong; LI, Kai; ZHANG, Junying Shi, Guopu; Zhang, Liu; Wang, Zhi; Li, Qinggang;	A reliable epoxy-based phase change material: facile preparation, tunable properties, and phase/microphase separation behavior Fabrication and mechanical properties of Ti/Al2O3 composites with CeO2, Y2O3, and ZrO2	Oral
289	(FCM)	Wu, Junyan	doped	Invited
290	Symposium 2: Functional Composite Materials (FCM)	Wang, Jia Chang (1,2); Dommati, Hitesh	Effect of ceramic grain size on fabrication of porous ceramic parts using Solvent Based Slurry Stereolithography	Oral
291	Symposium 2: Functional Composite Materials (FCM)	Chowdhury, Joydeep	Fabrication of SERS active substrates with Langmuir-Blodgett deposition technique	Invited
292	Symposium 2: Functional Composite Materials (FCM)	Saha, Somsubhra; Chowdhury, Joydeep	Self-affine properties of SERS active substrates: Experimental vis-à-vis theoretical investigations	Poster
293	Symposium 2: Functional Composite Materials (FCM)	Waware, Umesh S.; Hamouda, AMS.	Electrodeposition of Cu on Ni-B nanocomposites improves its mechanical properties	Poster
294	Symposium 2: Functional Composite Materials (FCM)	Zeng, Xiaofei; Bao, Jun; Zhou, Shihui	Mono-dispersed Nanoparticle and Its Functional Optical Nanocomposite	Poster
295	Symposium 2: Functional Composite Materials (FCM)	Tamim, Ahmed Mahfuz; Faruque, Mohammad Rashed Iqbal;	Electromagnetic Absorption of SRR Based EF-Structured Meta-Atom for DCS, EESC, 5G, and WiMAX Applications	Invited



		Islam, Mohammad		
		Tariqul		
296	Symposium 2: Functional Composite Materials (FCM)	Tao, Huajie; Luo, Xianfu; Zhou, Hongqing	Influence of ZnO/Yb2O3 doping of (Mg0.95Ca0.05)TiO3 ceramics on their sintering characteristics and microwave dielectric properties	Poster
297	Symposium 2: Functional Composite Materials (FCM)	Jiang, Jun	Energy Material Design Based on Electric Dipole Simulations	Oral
298	Symposium 2: Functional Composite Materials (FCM)	Yang, Su-Hua; Hung, Ying-Che	Stable Chromaticity of Red Titanate Phosphors for Sensor and Visualization	Poster
299	Symposium 2: Functional Composite Materials (FCM)	Rawat, Neha Kanwar; Panda, P.K	Microwave synthesized conducting polymer-based green nano composites as smart materials	Oral
300	Symposium 2: Functional Composite Materials (FCM)	PANWAR, ANJALI MALIK, VIKAS SONNATHI, NEELESHWAR BAGGA, ANJANA	Theoretical investigations on Stabilization of thermoelectric figure of merit for Bulk nanostructured PbTe System.	Poster
301	Symposium 2: Functional Composite Materials (FCM)	Sonnathi, Neeleshwar Khasimsaheb, Bayikadi Bathula, Sivaiah Chen, Yang- Yuan Bhattacharya, Sriparna Rao, Apparao M.	Significant Improvement of Thermoelectric properties of PbTe Nanocomposite system in the Medium- Low Temperature Range.	Oral



	Symposium			
	2: Functional			
	Composite			
	Materials	Sokolov, Victor	Wave propagation in	
302	(FCM)	V.	magnetic functional fluids	Oral
		Verga, Fabrizio	Enhanced processing and	
	Symposium	Giovanni Ezio	material properties for	
	2: Functional	Staub, Alexandre	powder based Additive	
	Composite	Schmid, Manfred	Manufacturing with	
	Materials	Wegener,	Lanthanum hexaboride	
303	(FCM)	Konrad	composites	Oral
000			Fe3O4-SiO2 coated tyre-	
			based activated carbon	
			nanofibers as a	
			nanoadsorbent for	
	Symposium		ultrasound assisted	
	2: Functional		dispersive solid phase	
			extraction of arsenic,	
	Composite Materials	Dimpa Magaladi	cadmium and thallium in	
204		Dimpe, Mogolodi		Destar
304	(FCM)	Kgogobi	environmental samples	Poster
	Symposium 2: Functional		Three dimensional printing	
			Three-dimensional printing	
	Composite		of piezoelectric materials	
005	Materials	Zheng, Xiaoyu	with designed anisotropy	
305	(FCM)	{Rayne}	and directional response	Oral
	Symposium		Deformation induced	
	2: Functional		energy generation using	
	Composite		0.5(Ba0.7Ca0.3)TiO3-	
	Materials		0.5Ba(Zr0.2Ti0.8)O3/PVD	
306	(FCM)	Prasad, Kamal	F nanocomposites	Oral
	Symposium			
	2: Functional		MoS2 based	
	Composite	Kumar, Akshay;	nanocomposites for	
	Materials	Krishnan, Unni;	photocatalytic degradation	
307	(FCM)	Kaur, Manjot	of industrial dyes	Oral
		Shukla, Dr.		
		Manoj Kumar		
		Misra, Mrs	Thermal, Mechanical and	
	Symposium	Archana	Chemical Characterization	
	2: Functional	Shukla, Mr	of Nano Composites	
	Composite	Moksh	Prepared from DGEBA	
	Materials	Srivastava,	Epoxy Matrix and Nano	
308	(FCM)	Dr.Deepak	CaCO3	Oral



		Daoush, Walid Mohamed		
		Rashad	· · · · · · ·	
		Mohamed Alkhuraiji, Turki	Microstructure and Properties of Carbon	
	Symposium	S.	Short Fibers/Copper	
	2: Functional	Alkameas, Moaz	Composites Fabricated by	
	Composite	Α.	Electroless Deposition	
	Materials	Albogmy, Turki	Followed by Powder	
309	(FCM) Symposium	S.	Metallurgy Technique	Oral
	2: Functional		Modeling of Infiltration	
	Composite		Processing of	
	Materials		Interpenetrating	
310	(FCM)	Jin, Zhihe	Piezoelectric Composites	Oral
		Santiago, Diana Hung, Ching-		
		cheh		
	Symposium	Hurst, Janet	Boron nitride	
	2: Functional	Nguyen,	nanomaterials	
	Composite	Baochau	modifications to improve	
311	Materials (FCM)	Lizcano, Maricela	nanocomposites preparation	Oral
511	Symposium	IVIANCEIA	3D printed CNT and	Orai
	2: Functional	Papon, Easir	continuous fiber reinforced	
	Composite	Arafat	hybrid composite for	
040	Materials	Haque, Anwarul	multifunctional	Qual
312	(FCM) Symposium	Spear, Scott K.	applications	Oral
	2: Functional		Droplet-based	
	Composite		Microfluidics for Smart	
	Materials		Emulsions and Functional	
313	(FCM)	XU, Jianhong	Microparticles	Invited
	Symposium 2: Functional			
	Composite			
	Materials	Zhang, Xiao-	Eddy Current on Carbon	
314	(FCM)	Zhang	Fiber Composite	Oral
	Symposium	Alonge,	IMPACT OF NANO-	
	2: Functional Composite	Olayiwola; Ramli,	METAKAOLIN ON PROPERTIES OF	
	Materials	Mahyuddin;	CEMENTITIOUS	
315	(FCM)	Awang, Hanizam	COMPOSITES	Oral



		Lu, Shaohe Hu, Xuefeng Qiu, Junwen		
		Quan, Wenjing		
		Min, Xinjie		
	Symposium	Hu, Yewei Cheng, Suishi		
	2: Functional	Ji, Peng	Enhanced sensing	
	Composite	Tian, Renbing	properties of xylene gas	
	Materials	Du, Wei	sensors based on Sn2+-	
316	(FCM)	Zhang, Wei (1,2)	doped NiO nanostructure	Poster
	Symposium		In-Situ synthesis of UiO-	
	2: Functional	Chan Chai	66-NH2/sponge and highly	
	Composite Materials	Chen, Sha; Feng, Fan;	efficient adsorption 2, 4- dichlorophenoxyacetic	
317	(FCM)	Li, Sumei	acid in water	Poster
	Symposium		Effects of Several Fibers	
	2: Functional	Luo, Shenq Yih;	on the Friction	
	Composite	Chung, Yu	Performance of Non-	
	Materials	Hsiang;	asbestos Organic Friction	
318	(FCM)	Wu, Cheng Ru	Composites	Poster
	Symposium	Baik, Youl; Kang, Bo		
	2: Functional	Kyeong;		
	Composite	Jung, Moo	FEM Analysis on the Cold	
	Materials	Young;	Rolled Gd-B-Duplex	
319	(FCM)	Choi, Yong	Stainless Steels	Poster
			Relationships Between	
			Crystal, Internal	
			Microstructures, and	
	Symposium		Physicochemical Properties of	
	2: Functional		Copper-Zinc-Iron	
	Composite		Multinary Spinel	
	Materials		Hierarchical Nano-	
320	(FCM)	Li, Xinyong	microspheres	Oral
	Symposium		Ni substituted bismuth	
	2: Functional		ferrites; Design and	
	Composite Materials	KUANR, BIJOY	testing of broad-band Microwave Monolithic	
321	(FCM)	KUMAR	Filter and phase shifter	Oral



322	Symposium 2: Functional Composite Materials (FCM)	De Rosa, Igor Maria; Xin, Wenbo; Carlson, Larry	Highly conductive carbon nanotube yarns with improved strength	Oral
323	Symposium 2: Functional Composite Materials	Islam, Mazhar	Bio-cellulose-chitosan based biomimetic composites for potential application in bone tissue	Oral
	(FCM) Symposium 2: Functional Composite Materials	Hou, Yu Qi, Jimei Hu, Jiwei Huang, Fei Ruan, Wenqian Xiang, Yiqiu	regeneration Decolorization of Brilliant Green in Aqueous Phase by the Ordered Mesoporous Pd-Fe/RGO Nanocomposites Using an Artificial Intelligence Aided	
324	(FCM) Symposium 2: Functional Composite Materials (FCM)	Wei, Xionghui Li, Dongfeng Xie, Fei Li, Zhihong	Modeling and Optimization Small angle X-ray scattering study on the fractal structure of solid products of bituminous coal at different carbonization temperatures	Oral
326	Symposium 2: Functional Composite Materials (FCM)	Paszkiewicz, Sandra Piesowicz, Elzbieta Irska, Izabela Gawdzinska, Katarzyna Bryll, Katarzyna Kochmanska, Agnieszka Lapis, Agnieszka Sobolewska, Ewa Slaczka, Wojciech	Acrylic based nanocomposites containing hybrid system of mineral nanofillers for dental applications	Oral
327	Symposium 2: Functional Composite	Ni, Shuyu; Jiang, Yan; Yuan, Jialei; Gao, Xumin;	225-nm-thick vertical structure multiple- quantum-well diode	Poster



	Materials (FCM)	Shi, Zheng; wang, yongjin		
328	Symposium 2: Functional Composite Materials (FCM)	Ke, Weidong Wu, Xiuwen (1,2); Zhang, Jinlin	Infrared stealth and phase change microcapsules based on stearic acid and nano-iron	Oral
329	Symposium 3: Functional Catalysis (FC)	Saha, Jony (1,2); T P, Radhakrishnan	Iron-Cerium Based Electrocatalyst for Water Oxidation	Poster
330	Symposium 3: Functional Catalysis (FC)	Wu, Jingjie Zhang, Tianyu Ajayan, Pulickel	Engineering Carbon Topological Nanostructure for Electrocatalysis of Carbon Dioxide Reduction	Oral
331	Symposium 3: Functional Catalysis (FC)	Park, Sungjin	Coordination chemistry of organometallic molecules with carbon-based materials and their catalytic applications	Oral
332	Symposium 3: Functional Catalysis (FC)	Nikitenko, Sergey; Chave, Tony; Le Goff, Xavier	Sonohydrothermal synthesis of noble metal- free Ti@TiO2 core-shell nanoparticles with advanced photothermal catalytic activity	Oral
333	Symposium 3: Functional Catalysis (FC)	Varkey, Jaya (,1); Antony, Anitta P. A, Ajil	Catalytic activity studies of Metal Nanoparticles supported on a novel functional organic polymer	Oral
334	Symposium 3: Functional Catalysis (FC)	HE, Chun Hu, Lingling Shu, Dong	Self-Stabilized Indirect Z- scheme g-C3N4/I3-BiOI for Highly Efficiently Photocatalytic CH3SH Oxidation	Oral
335	Symposium 3: Functional Catalysis (FC)	Muthuchamy, Maruthupandy; Quero, Franck	Fabrication and characterization of chitosan/ferric oxide nanocomposites for photocatalytic degradation of important dye molecules	Poster



	Symposium 3: Functional	Lee, Ha-Young Zhang, Chunfei (1,2); Shin, Cheol-	Graphene-nickel interface- induced dipole layer catalytic mechanism on metal deposition and	
	Catalysis	hwan	electrochemical energy	
336	(FC)	Yu, Jong-Sung	harvesting	Oral
337	Symposium 3: Functional Catalysis (FC)	Malardier- Jugroot, Cecile; McTaggart, Matt; Jugroot, Manish	Controlling Thermodynamics and Kinetics at the Nanoscale – Biomimicking using Functional Materials	Oral
338	Symposium 3: Functional Catalysis (FC)	Shi, Zhiming; Wang, Lina; Ma, Rui; Zhang, Xiyu	Adsorption and catalytic behaviors of Fe-doped titania nanotubes treated reductively	Poster
339	Symposium 3: Functional Catalysis (FC)	Yu, Luo; Ba, Xin; Yu, Ying	Copper and Copper Oxides Based Materials for Solar Energy Conversion	Oral
340	Symposium 3: Functional Catalysis (FC)	Wang, Xiaoli	Selective oxidation of toluene with O2 catalyzed by supported nano- gold catalysts	Oral
341	Symposium 3: Functional Catalysis (FC)	Shahzad, Humaira	A Ni-carbon material derived from Ni-MOF74 for room temperature hydrogen storage	Oral
342	Symposium 3: Functional Catalysis (FC)	Zhu, Ying	Electrochemical Conversion of Energy and Chemicals Using Conductive Nanomaterials and Wettability	Oral
343	Symposium 3: Functional Catalysis (FC)	Pamidimukkala, Padmaja Sudhakar	DNA based magnetically separable Hybrid Catalysts- Characteristics and Potential Applications	Oral
344	Symposium 3: Functional Catalysis (FC)	Chauhan, Pankaj Singh; Bhattacharya, Shantanu	Hemin (Fe+3-porphyrin) anchored V2O5 nanowires for solar light based photocatalytic decolourization of MB dye and Industrial wastewater	Oral



	Symposium 3: Functional	Paula, Fernando R; Padovani, Guilherme S;	Photocatalytic efficiency of	
345	Catalysis (FC)	Gimenes, Tiago C	PVDF/TiO2 nanofibers produce by SBS process	Poster
346	Symposium 3: Functional Catalysis (FC)	Stylianou, Kyriakos	Self-healing Catalysis for the Hydrolytic Dehydrogenation of Ammonia Borane	Oral
347	Symposium 3: Functional Catalysis (FC)	Kim, Moongyu Choi, Guijun Song, Sinae Park, Sung Soo Kim, Hee Taik (1,2)	Characterization of Metal- doped Titania nanobeads photocatalyst synthesized by hydrothermal method	Poster
348	Symposium 3: Functional Catalysis (FC)	Aljawfi, Rezq Naji	The contribution of surface defects on the local atomic structure and photocatalyst properties of Fe: CeO2 NPs	Oral
349	Symposium 3: Functional Catalysis (FC)	Alegria, Elisabete (1,2); Ribeiro, Ana Kopylovich, Maximilian Pombeiro, Armando	Simple solvent-free preparation of heterometallic composites and their applications in catalysis	Oral
350	Symposium 3: Functional Catalysis (FC)	Singh, Chandra Veer Ghuman, Kulbir Kaur Ozin, Geoffrey A.	Silicon Nanoparticles- based Phoptocatalysts for Efficient CO2 Reduction	Oral
351	Symposium 3: Functional Catalysis (FC)	Ayyavu, Thirunarayanan; Soler, Monica; Gracia, Francisco	Nanoporous Metal Organic Frameworks for CO2 capture and Heterogeneous catalysis	Poster
352	Symposium 3: Functional Catalysis (FC)	Liu, Yangsi	Hydrothermal synthesis of WO3 nanostructures and their visible-light driven photocatalytic properties	Oral



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353	Symposium 3: Functional Catalysis (FC)	Choi, Guijun Song, Sinae Kim, Moongyu Kim, Hee Taik (1,2)	On-site photolysis effect of paper coated by a composite of titanium dioxide and rice husk silica with an enhanced photocatalyst	Poster
	Symposium	(· ,=)	Efficient Cota Laccase	
354	3: Functional Catalysis (FC)	Liu, Chunzhao	Immobilization onMagnetic Graphene Oxide Sheets for Enhancing Biocatalysis	Oral
	(10)		Laccase: large-scale	
355	Symposium 3: Functional Catalysis (FC)	Guo, Chen	fermentation and direct capture by functional magnetic nanoparticles for enhancing biocatalysis	Oral
356	Symposium 3: Functional Catalysis (FC)	Paz, Yaron; Ben Refael, Alon; Benisti, Itamar	Transient photoinduced phenomena in graphitic carbon nitride as measured at a temporal resolution of a few nanoseconds by step- scan FTIR	Oral
	\/		Poly(N-vinyl-2-	
357	Symposium 3: Functional Catalysis (FC)	Qiu, Shujun	pyrrolidone)-Stabilized Ruthenium Supported on Bamboo Leaf-Derived Porous Carbon for NH3BH3 Hydrolysis	Poster
			Diversity, expression and	
250	Symposium 3: Functional Catalysis	Singh, Satya	characteristics of extracellular proteases of Haloalkaliphilic bacteria from the Coastal Gujarat,	Orol
358	(FC)	Prakash	India	Oral
359	Symposium 3: Functional Catalysis (FC)	Wang, Chengyin; Wang, Sicong; Shen, Chao; Yang, Shengyang	Photocatalytic hydrogen evolution under a broad solar spectrum based on effect between metal and ligand	Poster
	Symposium		Supramolecular	
360	3: Functional Catalysis (FC)	Duan, Chunying; Zhang, Tiexin	Photocatalysis within Confined Environment of Metal-Organic Framework	Invited



361	Symposium 3: Functional Catalysis (FC)	Zhang, Tiexin; Duan, Chunying	Tackling Unusual Selectivity of Photocatalytic Trifluoromethylation for Protection of Metabolic Sites of Drugs by Enzyme- Mimicking Dye-based Metal-Organic Frameworks	Invited
362	Symposium 3: Functional Catalysis (FC)	Liu, Shuai; Mu, Xueliang; Yu, Jiahui; Yang, Gang; Luo, Xiang; Zhao, Haitao; Xu, Mengxia; Wu, Tao	Carbon nitride-support Single Mn atom as catalyst for Mercury removal in flue gas by first-principles calculations	Oral
363	Symposium 3: Functional Catalysis (FC)	Yadav, Om Prakash	Photo-catalytic Removal of Environmental Pollutants Under Solar Radiation Using High Band Gap Semiconductor Nanoparticles	Oral
364	Symposium 3: Functional Catalysis (FC)	Malmir, Masoumeh Sadjadi, Samahe Mommahed Heravi, Majid	Pd nanoparticles immobilized on the poly- dopamine decorated halloysite nanotubes hybridized with N-doped mesoporous carbon sheet: A versatile catalyst for promoting N-arylation reaction	Poster
365	Symposium 3: Functional Catalysis (FC)	Kim, Jinheung	Reduced Graphene Oxide Immobilized with Pyrene- pendant Rhodium Catalyst and Platinum Nanoparticles: Enhanced Hydrogen Photoproduction	Oral
366	Symposium 3: Functional Catalysis (FC)	Shi, Jian-Wen; Ma, Dandan; Zou, Yajun	Promoting efficient spatial charge separation and transfer for enhanced photocatalytic hydrogen	Oral



		production from water	
	Song Heyuan		
Symposium			
3: Functional			
Catalysis	Jin, Fuxiang		
(FC)	Li, Zhen	dimethyl ethers	Poster
	Yang, Qiaoqiao		
Symposium	(1,2);	New functionalized ionic	
3: Functional	Li, Zhen	liquids derived from	
Catalysis	Wang, Fang	nitrogen-bearing	
(FC)	Xia, Chungu		Poster
		Efficiency and	
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(FC)		Orange 7 Dye	Oral
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(FC)	Rajakumar		Oral
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Symposium	,	, ,	
			Oral
	Catalysis (FC) Symposium 3: Functional Catalysis	3: Functional Catalysis (FC) Symposium 3: Functional Catalysis (FC) Symposium 3: Functional Catalysis (FC) Symposium 3: Functional Catalysis (FC) Symposium 3: Functional Catalysis (FC) Sengottuvelan, Balasubramania n; Tamilselvan, Abiraman; Kannan, Symposium 3: Functional Catalysis (FC) Symposium 3: Functional Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catalysis (FC) Symposium Catal	SymposiumSong, Heyuan (1,2);Novel polymeric acidic ionic liquids as catalystsSymposiumChen, Jing Jin, Fuxiang Li, Zhenfor the preparation of polyoxymethylene dimethyl ethersSymposiumJin, Fuxiang Li, Zhenpolyoxymethylene dimethyl ethersSymposiumYang, Qiaoqiao (1,2);New functionalized ionic liquids derived from nitrogen-bearing heterocyclic compoundsSymposiumYang, ChunguNew functionalized ionic liquids derived from nitrogen-bearing heterocyclic compoundsSymposiumYang, ChunguNew functionalized ionic liquids derived from nitrogen-bearing heterocyclic compoundsSymposiumYang, Jao-Jia; Balasubramania n; Tamilselvan, Abiraman; Kannan, Balasubramania 3: Functional CatalysisSengottuvelan, Balasubramania n; Tamilselvan, Abiraman; Kannan, RajakumarSynthesis and characterization of sub 1 nm poly(acrylic acid) capped copper nanoparticles using high intensity (30 KHz)Symposium 3: Functional (FC)Kampouri, Kampouri, Stavroula Alina; Stylianou, Kyriakos C.Concurrent Photocatalytic Hydrogen Generation and their catalytic studySymposium 3: Functional Catalysis (FC)Kampouri, Kyriakos C.Tracing the active atomic sites in photochemistry with soft X-ray resonant inelastic X-ray scatteringSymposium 3: Functional CatalysisFöhlisch, Alexander (1,2)Photocatalyst designed in core-shell or three- dimensional nanostructurefor



		Colbeau-Justin,	conversion efficiency for	
	Symposium	Christophe	Hydrogen production Ultrathin Nanosheet Ni-	
	3: Functional		MOF Assemblies for High-	
	Catalysis		Efficiency Ascorbic Acid	
374	(FC)	shuai, cao	Electrocatalysis	Poster
		,	Density functional theory	
			study on polaron formation	
	Symposium	De Lile, Jeffrey	of Anatase and Brookite	
	3: Functional	Roshan	TiO2 using hybrid	
	Catalysis	Son, Young-A	functional and DFT+U	
375	(FC)	Lee, Seung Geol	methods	Poster
		Heo, Gisu		
		Manivannan,		
		Ramalingam	Ctudy on Visible Light	
	Symposium 3: Functional	Kim, Hyorim Ryu, Ji Won	Study on Visible Light Photo-Sensitized Metallo-	
	Catalysis	Lee, Seung Geol	Porphyrin/TiO2 and its	
376	(FC)	Son, Young-A	Photocatalytic Activities	Poster
010	(10)		Facial fabrication of	1 00101
			carbon quantum dots	
	Symposium		(CDs)-modified N-TiO2-x	
	3: Functional	Xu, Lu;	nanocomposite for the	
	Catalysis	Bai, Xue;	efficient photoreduction of	
377	(FC)	Jin, Pengkang	Cr(VI) under visible light	Oral
		Wang, Jiaqiang;	Biotemplated Mesoporous	
	Symposium	Yang, Yepeng;	Materials Based	
	3: Functional	Li, Yizhou;	Photocatalysis for Water	
270	Catalysis	Jiang, Liang;	and Wastewater	les lite d
378	(FC)	Wang, Wei	Treatment	Invited
	Symposium		Application of N/S doping Graphene/TiO2 on	
	3: Functional	Yuan, Ching	degradation of	
	Catalysis	Hung, Chung-	Sulfamethoxazole under	
379	(FC)	Hsuang	visible irradiation	Poster
	<u> </u>	Yao, Ke-Fu;		
		Chen, Shuang-		
		Qin;	Fe-based	
	Symposium	Jia, Ji-Li;	amorphous/nanocrytalline	
	3: Functional	Tang, Yao;	alloys with high efficiency	
	Catalysis	Shao, Yang;	in degradation of oze-dye	
380	(FC)	Chen, Na	containing wastewater	Oral



			Molecular Dynamic	
			Studies on the evolution of	
			[[AI]] _8 [[Cu]] _4 [[Fe	
]_1, [[AI]]_27 [[Cu]]	
			_10 [[Fe]] _5 and [[AI]]	
	Symposium 3: Functional			
	Catalysis		Icosahedral Quasicrystal	
381	(FC)	Said, Mansur	using DFT	Rejected
001	Symposium	Dumore, Nilesh		
	3: Functional	S.;	Aqueous Selenium	
	Catalysis	Mukhopadhyay,	Nanoparticles (ASeNPs)	
382	(FC)	Mausumi	as Antioxidant catalyst	Oral
	Symposium		Replacing Platinum with a	
	3: Functional		Better Performance For	
	Catalysis	Begum,	HER by the Metal of	
383	(FC)	Ameeunisha	Wilkinson's Choice	Invited
			Palladate Magnetic	
			Carbon Quantum Dot	
			Immobilized on the Hybrid	
		M Heravi, Majid Mohammadi,	of Cyclodextrin	
	Symposium	Leyla	Nanosponges and Bell- pepper Derived Biochar: A	
	3: Functional	Malmir,	versatile Catalyst for	
	Catalysis	Masoumeh	Promoting Hydrogenation	
384	(FC)	Sadjadi, Samahe	Reaction	Poster
	Symposium		Research of the Pollution	
	3: Functional	Chang, Jen-Ray	Control Technology of the	
	Catalysis	Chen, Chun-Hao	Particulate Matter for	
385	(FC)	Hsieh, Chu-Chin	Diesel Vehicle	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and Conversion		Zinc ferrum energy	
	Devices		storage chemistries with high efficiency and long	
386	(FESC)	chang, zheng	cycling life	Poster
000	Symposium	chang, zhong		1 00(0)
	4: Functional			
	Materials for			
	Energy		Probing oxide-ion	
	Storage and		conduction in low-	
387	Conversion	Huang, Bolong	temperature SOFCs	Invited



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	Devices			
	(FESC)			
	Symposium			
	4: Functional			
	Materials for		Intrinsic energy	
			conversions for photon-	
	Energy		•	
	Storage and		generation in piezo-	
	Conversion		phototronic materials: A	
	Devices		case study on alkaline	
388	(FESC)	Huang, Bolong	niobates	Invited
	Symposium			
	4: Functional			
	Materials for	SEKAR,		
		PADMAPRIYA;		
	Energy		Inorgania Minaral Daned	
	Storage and	VENKATACHAL	Inorganic Mineral Doped	
	Conversion	AM, SUDHA;	Polypyrrole for Hydrogen	
	Devices	SESHADRI,	Storage in Alkaline	
389	(FESC)	HARINIPRIYA	Medium	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	•••	Tion Hongwoi	LaMnO3@NiCo2O4	
	Storage and	Tian, Hongwei		
	Conversion	Lang, Xueqin	Nanoarchitecture for High	
	Devices	Nan, Haoshan	Performance	
390	(FESC)	Hu, Xiaoying	Supercapacitors	Oral
	Symposium			
	4: Functional			
	Materials for		Stable Potential Window	
	Energy		of Transition Metal Oxides	
	Storage and		for Efficient and Stable	
	-			
	Conversion		Oxygen Evolution	
	Devices		Reactions in Acidic	
391	(FESC)	Han, Hongxian	Electrolyte	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and		Theoretical Description of	
	Conversion		Carbon Felt Electrical	
		Avorbulch		
000	Devices	Averbukh,	Resistance under	Oral
392	(FESC)	Moshe	Squeezing	Oral



	4: Functional Materials for Energy Storage and Conversion	Zhang, Lili Xu, Yongshuai Ding, Weipu Zhou, Shouyong Zhong, Hui	Synthesis of nano-Ag- assisted attapulgite/g- C3N4 composites with superior visible light	
396	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC) Symposium	Dong, Renfeng Ren, Biye	Glucose-Fuelled Photocatalytic Micromotors	Poster
395	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Peng, Tianyou; Wang, Jinming; Liu, Dong; Wu, Chun	Enabling Low Energy Photons Harvesting for Efficient H2 Production Employing PbS Nanocrystals Modified Anatase TiO2 Microspheres	Oral
394	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Khan, Muhammad S Ashanul Haque, Ashanul Al-Balushi, Rayya A Al-Busaidi, Idris J	Poly-ynes and Poly(metalla-ynes) for Opto-Electronic (O-E) Applications	Oral
393	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Wang, Chenchen; Zhang, Jinxi; Gong, Shaobo; Ren, Kailiang	Significantly Enhanced Breakdown Field for Core- shell Structured Poly(vinylidene fluoride- hexafluoropropylene)/TiO2 Nanocomposites for Ultra- high Energy Density Capacitor Applications	Oral



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	Energy			
	Storage and			
	Conversion			
	Devices			
	(FESC)			
	Symposium			
	4: Functional			
	Materials for	Kunze, Frederik		
	Energy	Schnurre,	Synthesis of	
	Storage and	Sophie	Nanomaterials for Energy	
	Conversion	Huelser, Tim	Applications on the pilot-	
	Devices	Wiggers,	plant scale: Energy	
399	(FESC)	Hartmut	Storage	Oral
533	Symposium			
	4: Functional			
	A Functional Materials for			
	Energy			
	Storage and	Nava, Giorgio;	A simple route for the	
	Conversion			
		Schwan, Joseph;	synthesis of high-quality	
400	Devices	Mangolini,	silicon-carbon composites for lithium-ion batteries	Oral
400	(FESC)	Lorenzo	for innum-ion ballenes	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and			
	Conversion	Liu, John S.;	An Overview of Research	
404	Devices	Ho, Mei Hsiu-	on Lithium Iron Phosphate	
401	(FESC)	Ching	Battery	Oral
	Symposium			
	4: Functional			
	Materials for		Prediction for	
	Energy		optoelectronics properties	
	Storage and		of chalcopyrite's II-IV-V2	
	Conversion		via mBJ approach:	
	Devices		application in thin films	
402	(FESC)	HADJAB, Moufdi	solar cells	Poster
	Symposium	Zangina, Tasiu	Structural, Thermal	
	4: Functional	(1,2);	Properties and Electrical	
	Materials for	Hassan, Jumiah	Conductivity of Al	
	Energy	(2,3);	Substitution LiHf2(PO4)3	
	Storage and	Syahidah Azis,	NASICON-type Ionic	
403	Conversion	Raba'ah (2,3);	Conductor	Oral



	Devices (FESC)	Amin Matori, Khamirul (2,3); Musa, Makiyyu Abdullahi		
404	Symposium 4: Functional Materials for Energy Storage and Conversion Devices	Khakpour, Iman Rabiei Baboukani, Amin Allagui, Anis	Electrochemical Characterization of Bipolar Electrochemically	Oral
404	(FESC) Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Wang, Chunlei Rodríguez, Juan Ignacio Goetz, Andreas Trujillo- Gonzalez, Daniel Eduardo Castillo- Alvarado, Fray de Landa	Exfoliated Graphene Van der Waals effects on the Optical and Charge Transfer Properties in Organic Photovoltaics	Oral
406	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Sun, Chunwen	Solid-State Li/Na Batteries and Self-Powered Systems	Oral
400	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Sibari, Anass Kerrami, Zineb Kara, Abdelkader Hamedoun, Mohemmed Benyoussef, Abdelilah (3,4); Mounkachi, Omar Benaissa, Mohammed	Adsorption and diffusion on a phosphorene monolayer: a DFT study	Oral
408	Symposium 4: Functional	Li, Lihong	Synthesis of One- dimensional multi-Niobate	Oral



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	Materials for		composited and their	
	Energy		Application of Flexible	
	Storage and		Piezoelectric Films	
	Conversion			
	Devices			
	(FESC)			
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and			
	Conversion		Newer Materials for	
	Devices	Sukumaran,	Futuristic Energy Storage	
409	(FESC)	GOPUKUMAR	Devices	Invited
	Symposium			-
	4: Functional			
	Materials for			
	Energy		Study on amorphous	
	•••			
	Storage and	Shimizu, Jun;	carbon coatings as a	
	Conversion	Ramaswamy,	dielectric material for	
	Devices	Shreeharsha;	triboelectric	
410	(FESC)	Choi, Junho	nanogenerator	Poster
	Symposium			
	4: Functional			
	Materials for			
	Energy	Ramrakhiani,		
	Storage and	Meera	Cd1-xZnxSe/PVA	
	Conversion	Dubey, Swati	Nanocomposite Functional	
	Devices	Kushwaha,	Material for Energy	
111				lev vite d
411	(FESC)	Kamal	Conversion Device	Invited
	Symposium			
	4: Functional			
	Materials for			
	Energy		All-Electrospun Flexible	
	Storage and		Triboelectric	
	Conversion	Jiang,	Nanogenerator Based on	
	Devices	Chengmei;	Metallic MXenes	
412	(FESC)	Ping, Jianfeng	Nanosheets	Oral
	Symposium	Chen, Qiliang	Core-shell structure of	
	4: Functional	(1,3);	Si@C coated MCMB as	
	Materials for	Nie, Yi (1,2);	high-performance anode	
	Energy	Liu, Yanxia $(1,2)$;	materials for lithium-ion	
110				Poeter
413	Storage and	Ren, Baozeng	batteries	Poster



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	Conversion			
	Devices			
	(FESC)			
	Symposium			
	4: Functional			
	Materials for			
	Energy		A multi-functional photo-	
	Storage and		ferroelectric ceramic for	
	Conversion		multi-source energy	
	Devices		harvesting and sensing	
414	(FESC)	Bai, Yang	with only one component	Oral
	Symposium			Orai
	4: Functional			
			Quanching asthada	
	Materials for		Quenching cathode	
	Energy		electrolyte interphase on	
	Storage and		Ni-rich cathode materials	
	Conversion		for preventing short circuit	
	Devices		problem in lithium ion	
415	(FESC)	Wang, Fu-Ming	battery	Oral
		Ihm, Yungok		
		Cooper,		
	Symposium	Valentino		
	4: Functional	Vlcek, Lukas		
	Materials for	Canepa,		
	Energy	Pieremanuele		
	Storage and	Thonhauser,		
	Conversion	Timo	Continuum model for gas	
	Devices	Shim, Ji Hoon	storage in nanoporous	
416	(FESC)	Morris, James	materials	Oral
	Symposium			
	4: Functional			
	Materials for		High-performance	
	Energy		nanofibrous LaCoO3	
	Storage and		perovskite cathode for	
	Conversion		solid oxide fuel cells	
	Devices	LEE,	fabricated via chemically	
417	(FESC)	SEUNGBOK	assisted electrodeposition	Poster
	Symposium	Kwok, Yu Ho,		
	4: Functional	Holly		
	Materials for	Wang, Yifei	Fuel Breathing Microfluidic	
	Energy	Zhang,	fuel cell: fuel solubility	
	Storage and	Yingguang	effect to the anode	
418	Conversion	Zhang, Huimin	selection	Oral
410	001100131011	Linany, Liuiniin	3616011011	



	Devices	Leung, Yiu		
	(FESC)	Cheong, Dennis		
	Symposium			
	4: Functional			
	Materials for		Fabrication of Zn1-	
	Energy		xCuxCo2O4	
	Storage and		nanostructured based	
	Conversion		High-Performance	
110	Devices	Gaur, Anurag;	symmetric	Oral
419	(FESC)	Sharma, Meenu	supercapacitors	Oral
	Symposium			
	4: Functional	Kim Vac Caulu		
	Materials for	Kim, Yee-Seul;	Investigating sounled	
	Energy Storage and	Makivic, Nikolina;	Investigating coupled	
	Storage and Conversion	Limoges, Benoît;	Electron-Proton storage at mesoporous metal oxide	
	Devices	Balland,	films under mild aqueous	
420	(FESC)	Véronique	conditions	Oral
720	Symposium	veronique		
	4: Functional		Mushroom-like srtuctural	
	Materials for		CdSe/TiO2	
	Energy		Heteronanorods for	
	Storage and		enchancing light	
	Conversion		absorption and application	
	Devices	Chong, Baohe	in photoelectrochemical	
421	(FESC)	Zhu, Wen (1,2)	cell	Poster
	Symposium	, , , ,		
	4: Functional			
	Materials for		Inkjet printing-assisted	
	Energy		growth of Ni2CO3 nano-	
	Storage and	Sundriyal,	rods over fabric substrates	
	Conversion	Poonam;	for flexible and wearable	
	Devices	Bhattacharya,	supercapacitor	
422	(FESC)	Shantanu	applications	Oral
	Symposium			
	4: Functional			
	Materials for		A Solvent-less Solid State	
	Energy		Grinding Method for the	
	Storage and		Synthesis of Dispersible	
	Conversion		Semiconducting Bimetallic	
	Devices		Sulfide (Ternary)	
423	(FESC)	BERA, ABHIJIT	Nanocrystals	Poster



424	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Thirumurugan, Arun Akbari- Fakhranadi, Ali K, Prabakaran	Carbon modified Iron oxide magnetic nanoparticles - negative electrode material for supercapacitor applications	Oral
425	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Li, Gang Qin, Pingli Yang, Guang Singh, Mriganka (1,2); Chu, Chih-Wei	Interface Tuning in Solution processed Organic and Hybrid Perovskite Solar Cells	Oral
426	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	HALDER, ADITI; Sharma, Lalita	Plasma engineered 2D- MoS2 nano flowers decorated on Reduced graphene sheets for Hydrogen Evolution	Oral
427	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	VIVAS, LEONARDO CORNEJO, ADRIAN JARA SINGH, DINESH PRATAP	Graphene Based Green Supercapacitor for Energy Storage	Oral
428	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Mukherjee, Sankha; Kavalsky, Lance; Chattopadhyay, Kinnor; Singh, Chandra Veer	Blue Phosphorene as a cathode in Li-S batteries	Oral
429	Symposium 4: Functional Materials for	Shu, Dong Cheng, Honghong	Supermolecular Self- assembly Promoted Porous N,P-Codoped	Oral



	Energy Storage and Conversion Devices (FESC)	Zhou, Xiaoping He, Chun	Reduced Graphene Oxide as a High Performance Electrode Material for Supercapacitors	
430	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Hussain, Istiak; Jaksik, Jared; Chowdhury, Aminur Rashid; Uddin, M. Jasim	Carbon Nanotube Yarn Based Three Dimensional Photovoltaic Microwires	Oral
431	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	He, Feng	Chlorination: A Facile Method for Efficient Solar Conversion	Oral
432	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	ZHAROV, ILYA	Fuel Cell and Lithium Battery Membranes from the Assembly of "Hairy" Nanoparticles	Oral
433	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Vasileska, Dragica Shaik, Abdul Brinkman, Daniel Ringhofer, Christian	A Unified 2D Solver for Modeling Carrier and Defect Transport in CdTe Solar Cells	Invited
434	Symposium 4: Functional Materials for Energy Storage and Conversion	Jeon, Jun Woo (1,2); Kim, Dong-Min Kim, Minsu Kim, Yong Seok Lee, Jong-Chan	Carbon-sulfur composites derived from polymers of intrinsic microporosity for RT Na-S rechargeable batteries	Poster



	Devices (FESC)	Lee, Kyu Tae Kim, Byoung Gak		
435	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Kim, Byoung Gak; Jeon, Jun Woo; Han, Jae Hee; Kim, Minsu; Kim, Yong Seok; Kim, Tae-Ho	A Hierarchically Structured Carbon Electrodes Based on Intrinsically Microporous Polymer (PIM-1) Matrix for supercapacitor	Poster
436	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Fujimori, Hirotaka Kawanishi, Ippei Matsushita, Nobuhiro	Structural Chemistry Study on Strontium Tantalate Photocatalysts for Their Water-Splitting Properties: High- Temperature Ultraviolet Raman Spectroscopy	Oral
437	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Kawanishi, Ippei Fujimori, Hirotaka Yashima, Masatomo	Structural Chemistry Study on Strontium Tantalate Photocatalysts for Their Water-Splitting Properties: Synchrotron X-ray Diffraction and Neutron Diffraction	Oral
438	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	LI, Qiang; Zhuo, Fangping; Ji, Yongjie	Energy harvesting properties and device of PLZST antiferroelectric single crystal	Oral
439	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Winkler, Krzysztof; Wysocka- Zolopa, Monika; Goclon, Jakub	Polypyrrole Nanoparticles Doped with Fullerene and Fullerene/Pd Coordination Polymer Uniformly Distributed in the Polymeric Phase	Oral



	Symposium			
	4: Functional Materials for Energy	Musyoka, Nicholas;	Holistic approach for low- cost synthesis of Fe- based Metal-organic	
	Storage and Conversion	Ren, Jianwei; Langmi,	frameworks (MOFs) using Fe derived from acid mine	
	Devices	Henrietta;	drainage and PET-derived	
440	(FESC)	Mathe, Mkhulu	organic linker	Oral
	Symposium 4: Functional Materials for	aminirastabi,		
	Energy	habibollah		
	Storage and	yu, yuxi	Preparation Nano powder	
	Conversion Devices	xue, hao Xie, Rong Jun	perovskite ceramics and sintering with SPS	
441	(FESC)	V.Mitic, Vojislav	technique	Poster
	Symposium 4: Functional	Zatsepin,		
	4: Functional Materials for	Anatoly; Kuznetsova,		
	Energy	Yulia;		
	Storage and	Rychkov,	Functional materials	
	Conversion	Vladimir;	based on Gd2O3	
442	Devices (FESC)	Mashkovtsev, Maxim	nanoparticles for UV, VIS and IR-conversion	Oral
	Symposium			
	4: Functional Materials for		Nanogranular Compound	
	Energy		Material Layers Serve as	
	Storage and		Storage for Infra-Red to	
	Conversion	Kaana Hana	Ultra-Violet Photons for	
443	Devices (FESC)	Koops, Hans Wilfried Peter	Energy Supply of Electric Machines	Oral
	Symposium			
	4: Functional			
	Materials for Energy	Saruhan-Brings,	Mesoporous Electrodes	
	Storage and	Bilge	and Polymer supported	
	Conversion	Rana, Masud	Electrolytes for efficiency	
	Devices	Petersen, Jan	of Electrochemical Energy	
444	(FESC) Symposium	Geier, Sebastian	Storage Devices Facile Synthesis of	Oral
	4: Functional		Li1.2Mn0.6Ni0.2O2 with	
445	Materials for	Chu, Hailiang	3D Porous Hierarchical	Poster



	Energy Storage and Conversion Devices (FESC)		Micro/nanostructure by One-step Solvothermal Route	
446	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Chen, Yang- Yuan Wei, Pai-Chun (1,2); Chen, Cheng- Lung	Thermoelectric properties of Ge1-xBixTe crystals	Poster
447	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Matsumoto, Futoshi Ando, Fuma Gunji, Takao Tanabe, Toyokazu Ohsaka, Takeo	Relationship between ORR Activity and d-band Center of Pt and Pt-based Alloy Nanoparticle Deposited on Metal Oxide Support Materials	Poster
448	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Liu, Huifang (1,2); Wei, Linru Cong, Chen Ma, Kai	A New Continuous Resonant Vibration Harvester Using Fe-Ga Alloy Film For Harvesting Instantaneous Vibration Energy	Oral
449	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Kim, Dongseob Lee, Sangmin	Sustainable energy harvesting technology based on triboelectric nanogenerators and loss- energy harvesting system	Poster
450	Symposium 4: Functional Materials for Energy Storage and Conversion	Zhao, Yaping; Tan, Huijun	Layer-by-layer fabrication of multilayer hybrids composed of graphene/polyaniline nanofiber for high-energy	Oral



	Devices		electrode materials for	
	(FESC) Symposium		supercapacitors	
	4: Functional			
	Materials for			
	Energy		Microwave-Assisted	
	Storage and	CHAND,	Synthesis of BiPO4	
	Conversion	PRAKASH	Nanostructures for	
	Devices	Joshi, Aman	Supercapacitor	
451	(FESC)	Singh, Vishal	Applications	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and Conversion		Photoconversion of CO2:	
	Devices		Controllable Transition	
452	(FESC)	IN, SU-IL	from C1 to C2 Products	Invited
-52	Symposium			Invited
	4: Functional			
	Materials for			
	Energy	Luo, Quanshun	Using pulsed plasma	
	Storage and	Yang, Shicai	nitriding to improve the	
	Conversion	Mei, Haijuan	conductivity property of	
	Devices	(1,3);	SOFC interconnect made	
453	(FESC)	Deng, Peng	from ferritic FeCr steels	Oral
	Symposium			
	4: Functional Materials for		Solvethermel eventhesis of	
	Energy		Solvothermal synthesis of Li(Ni0.6Co0.2Mn0.2)xCd1	
	Storage and		-xO2 cathode materials	
	Conversion	Zhou, Yuan;	with excellent	
	Devices	Dong, Shengde;	electrochemical	
454	(FESC)	Hai, Chunxi	performance	Poster
	Symposium			
	4: Functional			
	Materials for		Ultrathin CeO2 coating for	
	Energy		improved cycling and rate	
	Storage and		performance of Ni-rich	
	Conversion	Dong, Shengde;	layered	
AEE	Devices	Hai, Chunxi;	LiNi0.7Co0.2Mn0.1O2	Doctor
455	(FESC)	Zhou, Yuan	cathode materials	Poster



	Symposium]
	Symposium 4: Functional			
	Materials for	Sun, Yanxia;	Effect of Na and Mg co-	
	Energy	Hai, Chunxi;	doping on Electrochemical	
	Storage and	Shen, Yue;	Performance of Ni-rich	
	Conversion	Li, Xiang;	LiNi0.8Co0.1Mn0.1O2	
	Devices	Dong, Shengde;	Cathode Material for	
456	(FESC)	Zhou, Yuan	Lithium Ion Battery	Poster
	Symposium			1 00101
	4: Functional			
	Materials for			
	Energy			
	Storage and		Curvature-dependent	
	Conversion		band engineering and	
	Devices	Ouyang, Gang;	piezoelectric properties in	
457	(FESC)	Li, Guofei	bent ZnO nanowires	Oral
	Symposium			
	4: Functional			
	Materials for		A novel 3D submicro-nano	
	Energy		bimodal porous β-CuZnAl	
	Storage and		shape memory alloy	
	Conversion		current collector for	
	Devices	Luo, Zheng;	binder-free lithium ion	
458	(FESC)	Yuan, Bin	batteries	Oral
	Symposium			
	4: Functional			
	Materials for		In eight into the Cymerciatic	
	Energy		Insight into the Synergistic	
	Storage and Conversion		Effect between C-S and	
	Devices		Fe-N Sites for Oxygen Reduction Reaction in	
459	(FESC)	Chen, Tiehong	Alkaline and Acidic Media	Poster
409	Symposium			
	4: Functional			
	Materials for			
	Energy	Sun, Zhouting;		
	Storage and	Xie, Chong;	Double-Walled Carbon	
	Conversion	Shen, Fei;	Nanotubes Used for	
	Devices	Niu, Chunming;	Enhanced Lithium-Sulfur	
460	(FESC)	Han, Xiaogang	Batteries	Poster
	Symposium	,		
	4: Functional		Physics of the dielectric	
461	Materials for	Manan, Abdul	properties of microwave	Oral



	Energy Storage and Conversion		and milimeterwave ceramics	
	Devices (FESC)			
	Symposium 4: Functional	Igor Simplice, Mokem Fokou		
	Materials for Energy	clémence, NONO	Stochastic resonance and time-delayed feedback	
	Storage and Conversion	Martin, Siewe Siewe	control of nonlinear electromechanical energy	
	Devices	Clément,	harvester under random	
462	(FESC)	Tchawoua	excitation	Poster
	Symposium 4: Functional			
	Materials for	Maaaaranhaa		
	Energy Storage and	Mascarenhas, David;		
	Conversion	Kshirsagar,	Optical properties of site	
463	Devices (FESC)	Bhakti; Shah, Vaishali	specific S and Se doping in GaNbO4	Invited
	Symposium			
	4: Functional Materials for			
	Energy			
	Storage and Conversion		Contact force analysis of a	
	Devices	Yu, Tai-Ho;	Contact force analysis of a circular cylindrical wedge	
464	(FESC)	Lu, Tung-Che	wave ultrasonic motor	Poster
	Symposium 4: Functional			
	Materials for			
	Energy Storage and		Investigation of nanostructured thin films	
	Conversion	Wu, Gwomei;	based on water soluble	
405	Devices	Lee, J.H.;	precursors for perovskite	Destan
465	(FESC) Symposium	Lee, C.H. Yesengulov,	solar cells	Poster
	4: Functional	Dias		
	Materials for	Temirov, Erbol Lamonov,		
	Energy Storage and	Alexander	High Voltage Energy	
466	Conversion	Sataeva, Gulzipa	Storage Device	Poster



	Devices (FESC)	Myrzakhmet, Marat		
467	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Podila, Ramakrishna; Wang, Chengxin; Lu, Bingan; Rao, Apparao	Beyond lithium ion batteries – Opportunities and challenges	Oral
468	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Ren, Yong; Wang, Jing	Needle based microfluidic formation of double emulsion structure encapsulating multiple cores	Poster
469	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Fan, Le-Qing; Pan, Fei; Wu, Ji-Huai	Synthesis of CuCo2S4/MnCo2O4 nanorod arrays on Ni foam as binder-free electrode for asymmetric supercapacitor	Poster
470	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Yan, Xuehua; Wang, Qiong; Zhou, Chen; Wang, Jingjing; Cheng, Xiaonong	One-dimensional MoO3 Modified by TiO2 and Ag Nanoparticles for Supercapacitor with Enhanced Electrochemical Performance	Poster
471	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Wang, Chao; Li, Hong; Gu, Changzhi; Li, Junjie	Interfacial improvement of vertical graphene-coated silicon nanocone anodes for lithium-ion batteries	Poster



	Symposium 4: Functional Materials for Energy Storage and Conversion Devices	Opoku, Francis Govender, Krishna Kuben van Sittert, Cornelia Gertina Catharina Elizabeth Govender,	Tuning the electronic structures, work functions, optical property and stability of bifunctional hybrid graphene oxide/V– doped NaNbO3 type–II heterostructures: a promising photocatalyst	
472	(FESC)	Penny Poomani	for H2 production	Poster
473	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Govender, Penny Poomani Opoku, Francis Govender, Krishna Kuben van Sittert, Cornelia Gertina Catharina Elizabeth	First–Principles Study of Cubic SrTiO3 with Perovskite–Type Materials MTaO3 (M = Na, K) for Environmental Remediation	Poster
474	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Du, Zhenzhen; Ji, Hengxing	Cobalt in Nitrogen-Doped Graphene as Single-Atom Catalyst for High-Sulphur Content Lithium-Sulphur Batteries	Oral
475	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Majumder, Sumit (1,2); Sardar, Manas Satpati, Biswarup Pal, Shreyasi Dutta, Shibsankar De, Sukanta Kumar, Sanjay Banerjee, Sangam	Magnetization Enhancement of Fe3O4 nanoparticles by attaching onto Graphene Oxide and its Application towards Magnetic Field Dependent Enhanced Electrochemical Energy Storage Performances: An Interfacial Effect	Oral
475	Symposium	T.*, SELVARAJU	Fabrication of bimetallic	Orai
	4: Functional	Т.,	chalcogenides with ease	
	Materials for	SARAVANAKUM	for better performance of	
476	Energy Storage and	AR	DSSCs, hydrogen evolution reaction and as	Oral
470	Storage and	A.,		Ulai



	Conversion Devices (FESC)	PANDIKUMAR S.J., SARDHAR BASAH	hybrid energy storage material	
477	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Soibam, Aruna Chanu Lenka, Trupti Ranjan Dey, Krishanu Maung, Thway (3,4); Lin, Fen Aberle, Armin Gerhard (3,4)	Device Modeling for High Efficiency Lead Free Perovskite Solar Cell with Cu2O as Hole Transport Material	Oral
478	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Dehno Khalaji, Aliakbar	Supercapacitor studies on nickel oxide nanoparticles prepared by facile route calcination	Poster
479	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Kulkarni, Milind Vyankatesh	Solid State Li-ion Battery Research: C-MET Initiative and Future Plans	Oral
480	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Msomi, Phumlani Mudzunga, Vhahangwele Sigwadi, Rudzani Nonjola, Patrick	Improving properties of Polymer electrolyte membranes for fuel cell applications - Role of nanostructured materials	Oral
481	Symposium 4: Functional Materials for Energy Storage and Conversion	Chu, Xiangcheng Zhang, Mengfan Yuan, Songmei Zheng, Xueyang	Design and experiments of an eight-zonal piezoelectric tube-type threaded ultrasonic motor	Poster



	Devices			
	(FESC)			
	· · ·			
	Symposium 4: Functional			
	Materials for			
	Energy			
	Storage and			
	Conversion		Machine-washable flexible	
	Devices	Anjum, Nasim;	supercapacitors based on	
482	(FESC)	Shen, Caiwei	laminate composites	Oral
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and	Ferreira, Paula;		
	Conversion	Sierra, Dayana;	Flexible chitosan-based	
	Devices	Nunes, Cláudia;	BaTiO3 piezoelectric	
483	(FESC)	Vilarinho, Paula	composites	Invited
	Symposium			
	4: Functional	Mukherjee,		
	Materials for	Sankha;		
	Energy	Kavalsky, Lance;		
	Storage and	Chattopadhyay,		
	Conversion	Kinnor;	Role of Electrolytic	
	Devices	Singh,	Solvents in 2D anode	
484	(FESC)	ChandraVeer	Based Batteries	Oral
404	· · ·	Chanulaveel	Dased Datteries	Ulai
	Symposium 4: Functional		Self-Assembled SnS	
	Materials for		Particles Electrostatically	
	Energy		Anchored on Three	
	Storage and	Qayyum, Ahmed	Dimensional Dual Doped	
	Conversion	Abdul;	Holey Graphene for High	
10-	Devices	Khan, Zuhair	Performance Sodium Ion	
485	(FESC)	Subhani	Batteries	Oral
	Symposium			
	4: Functional	JANA, SOUMITA		
	Materials for	BHATTACHARY		
	Energy	YA, ARNAB	Charge storage behavior	
	Storage and	SHANKAR	in flower structure of rGO-	
	Conversion	SINGH,	MnO2 nanoparticles for	
	Devices	GAJENDRA	supercapacitor	
486	(FESC)	PRASAD	application.	Oral



	Symposium 4: Functional Materials for Energy		Three-Dimensional Nitrogen-Doped	
	Energy Storage and Conversion Devices	Li, Zhaohuai; He, Qiu; Xu, Xu;	Nitrogen-Doped Graphene/TiN Nanowire Composite as a Strong Polysulfide Anchor for	
489	(FESC)	Mai, Liqiang	Lithium-Sulfur Batteries	Oral
490	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Xiong, Ren-Gen	Multiaxial Molecular Ferroelectric material	Invited
491	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Ebhota, WS; Tabakov, PY	The Significance of Domestic Production of Low-Cost Photovoltaic Cells in Sub-Saharan Africa Renewable Energy Roadmap and Wellbeing	Oral
	· · · · · ·		Exploring Structure Based	
492	Symposium 4: Functional Materials for	Calvo-Castro, Jesus McHugh, Callum	Charge Transport Relationships in Phenyl	Oral



	Energy Storage and Conversion Devices (FESC)		Diketopyrrolopyrrole Single Crystals Using a 2D π-π Dimer Model System	
493	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Paris, Oskar Koczwara, Christian Prehal, Christian	Watching ions in nanoporous supercapacitor electrodes at work using in-situ small- angle X-ray scattering	Oral
494	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Stempien, Zbigniew Khalid, Mohmmad Kozicki, Marek	Flexible solid-state supercapacitors based on graphene/polypyrrole composites inkjet printed on textile substrates	Oral
495	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Xu, Jing	Electrochemical capacitance performance of polyaniline/activated carbon fibers	Oral
496	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Ko, Jang Myoun; Manasi, Mwemezi	Hydroxy Terminated Poly(dimethylsiloxane) as an Electrolyte Additive to Enhance the Cycle Performance of Lithium- Ion Batteries	Poster
497	Symposium 4: Functional Materials for Energy Storage and Conversion	Huaiguo, Xue	Two-dimensional Covalent Organic Framework for Energy Storage	Invited



	Devices			
	(FESC)			
498	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Park, Ho Seok	Ultracapacitive Energy Storage Using 2D Nanomaterials Under Extreme Conditions	Oral
499	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Mukherjee, Sankha; Singh, Chandraveer	Atomistic Simulations of Energy Dissipation in Amorphous Silica Nanoresonators	Oral
500	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Das, Sukhen Shaikh, Minarul Hoque, Nur Amin Biswas, Prosenjit Thakur, Pradip	Use of ZrO2 Stimulated PVDF HFP Composite Flexible Thin Film in developing High Performance Piezoelectric Nanogenerator and Transparent Single Electrode Triboelectric Nanogenerator	Oral
501	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Basu, Ruma Hoqu, Nur Amin Biswas, Prosenjit Das, Sukhen Thakur, Pradip	Fabrication of flexible thin film Piezoelectric Nanogenerator and Single Electrode Triboelectric Nanogenerator for Energy Harvesting by using CuS nanoparticle doped PVDF	Oral
502	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Samuel, Manu Saji; Mevada, Chirag; Mukhopadhyay, Mausumi	Chemically Activated Hydrophilic Carbon Cloth as an Electrode Material for Energy Storage Device	Oral



	0			
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and		Tribotronics for	
	Conversion		Mechanosensation and	
	Devices	Zhang, Chi;	Self-Powered	
502				Invited
503	(FESC)	Wang, Zhong Lin	Microsystems	Invited
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and	Mo, PJ.		
	Conversion	Wang, James	Air-processed perovskite	
	Devices	Wang, Hong	solar cells made with	
504	(FESC)	Paul	SnO2 quantum dots	Poster
507	Symposium			
	4: Functional			
	Materials for	Zhuona M V		
		Zhuang, MX.		
	Energy	Mo, PJ.		
	Storage and	Wang, James	Preparation of perovskite	
	Conversion	Wei, YL.	solar cells without a hole	
	Devices	Wang, Hong	transport layer in ambient	
505	(FESC)	Paul	air	Poster
	Symposium			
	4: Functional			
	Materials for			
	Energy			
	Storage and		A Digital Representation	
	Conversion		of a Microstructure and	
	Devices		Determining its	
FOG		Pol Burok	5	Oral
506	(FESC)	Bal, Burak	Mechanical Behavior	Oral
	Symposium	Kiarii, Ephraim		
	4: Functional	Muriithi		
	Materials for	Govender,		
	Energy	Krishna Kuben	DFT Study of Skutterudite	
	Storage and	Mamo, Messai	CoSb3 and In0.2Co4Sb12	
	Conversion	Adenew	Thermoelectric	
	Devices	Govender,	Heterostructures with 2D-	
507	(FESC)	Penny Poomani	WSe2	Poster
	Symposium	Wang, Lin	A Long Cycle-Life and	
	4: Functional	Welborn, Samuel	High-Rate Magnesium-Ion	
508	Materials for	Detsi, Eric (1,2)	Battery Anode Enabled by	Oral
000			Eattery Ariode Eridbled by	



	Energy Storage and Conversion Devices (FESC)		Self-Healing through Near-Room-Temperature Solid-Liquid Phase Transition	
509	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Jiang, Yuan; Gao, Xumin; Yuan, Jialei; Jiang, Yan; Shi, Zheng; Wang, Linning; Jin, Ruixue; wang, yongjin	Dual-functioning subwavelength vertical- structure multiple-quantum well diode	Poster
510	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Fu, Jintao Corsi, John (1,2); Li, Manni (1,3); Detsi, Eric (1,2)	High-Rate and Long Cycle-Life of Bulk Na2/3[Ni1/3Mn2/3]O2 Sodium-ion Battery Cathode Enabled through Structural Inclusions	Oral
511	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Corsi, John (1,2); Stach, Eric (1,2); Detsi, Eric (1,2)	Operando TEM Investigation of Lithium Storage Mechanisms in Nanoporous Alloy-Type Lithium-Ion Anodes	Oral
512	Symposium 4: Functional Materials for Energy Storage and Conversion Devices (FESC)	Sahalie, Nigus Aweke	Enhanced performance of anode free lithium metal battery: Understanding the effect of electrolyte additives in carbonated electrolyte	Poster
513	Symposium 4: Functional Materials for Energy Storage and Conversion	Welborn, Samuel S. Corsi, John S. Detsi, Eric (1,2)	3D Nanoporous Conductor-Insulator- Conductor (CIC) Capacitor	Oral



	Devices (FESC)			
514	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	DAI, GUIPING	One-Step Synthesis of 3D N-doped Carbon Nanotube/N-doped Graphene Hybrid Material by Chemical Vapor Deposition	Oral
515	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kovaricek, Petr	Chemistry on and with Graphene: Introducing Selectivity, Functionality and Motion	Oral
516	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	TIWARI, PRANAV; Mobin, Shaikh M	Direct Exfoliation of Graphite from Carbon dots derived from Cannabis Sativa	Oral
517	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Li, Huaping	Selective Protonation of Sodium Cholate for Reversible Blue-Shift Absorption Spectra of Single-Chirality Single- Walled Carbon Nanotube in Solution	Oral
518	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	John, Neena; Ramakrishnan, Vivek; Alex, C	Molybdenum Oxide Nanostructures for energy applications	Oral
519	Symposium 5: Functional Low dimensional, Nano and	Shi, Zhiming	Controlling of the microstructure to improve humidity sensing behaviors of titania based nanofilms by RE-doping	Oral



	2D materials (FLNM)			
520	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Jianfang (1,2); Wang, Yan Wu, Jingjie Wu, Yucheng	Synthesis of water-soluble defect-rich MoS2 ultrathin nanosheets for enhanced hydrogen evolution reaction	Oral
521	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Cantalini, carlo; ottaviano, luca; paolucci, valentina	Controlling microstructure and surface oxidation of few layers exfoliated WS2 for NO2 and H2 gas sensing applications	Oral
522	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Sambur, Justin	Single nanoparticle electrochromism measurements reveal heterogeneous coloration rates and ion trapping sites in smart windows	Oral
523	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Sambur, Justin	Efficient Carrier Collection in Monolayer Liquid Junction Photovoltaic Systems	Oral
524	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Gupta, Surojit	Design of Novel Particulates from MAX and MAB Phases	Oral
525	Symposium 5: Functional Low dimensional, Nano and	Black, David Michael Lopez, Priscilla Orr, Elizabeth Lara, Humberto Herman	Super Atom Complexes with Antiviral and Bactericidal Activity	Oral



	2D materials (FLNM)	Alvarez, Marcos Miguel Baghdesarian, Glen Lopez Ribot, Jose Luis Whetten, Robert Loyd		
526	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Baruah, Jubaraj Bikash	Emission Properties of Organic Fluorophores in Solid and Solution	Invited
527	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Alvarez Barragan, Alejandro Jose; Mangolini, Lorenzo	Plasmon-induced chemistry with plasmonic titanium nitride nanoparticles as an alternative to gold	Oral
528	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Biranje, Pratiksha Madhukar	Synthesis and characterization of high aspect ratio graphene oxide through a continuous re-exfoliation of graphite	Oral
529	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Yu, Xuecheng; Kilani, Mohamed; Schaefer, Evan; Luo, Long; Mao, Guangzhao	Chemical Sensor Fabrication by Direct Deposition of Organic Nanowires	Oral
530	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zou, Taoyu Wang, Xiaoyan Guo, Tingting Song, Yumin Wu, Wei Wang, Hai	Magnetic and optical properties of metal- phthalocyanines: A low- dimensional organic semiconductors	Oral



521	Symposium 5: Functional Low dimensional, Nano and 2D materials	Rodríguez, Juan Ignacio Vergara-Beltran, Ulises Asael Resendiz- Serrano, Dulce María Autschbach,	Optical and charge transport properties of gold-nanocluster complexes: single-	Dector
531	(FLNM) Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Jochen Jue, Melinda; Chen, Chiatai; Buchsbaum, Steven; Meshot, Eric; Park, Sei Jin; Wu, Kuang Jen; Fornasiero, Francesco	molecule nanowires Wafer-scale nanofiltration membranes with a high density of narrow SWNT pores	Poster
533	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Buchsbaum, Steven; Jue, Melinda; Sawvel, April Marie; Chen, Chiatai; Meshot, Eric; Park, Sei Jin; Wu, Kaung Jen; Lau, Edmond Y.; Pham, Tuan Anh; Fornasiero, Francesco	Fast ion diffusion in carbon nanotube pores	Oral
534	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Chen, Hongyu Dai, Mingjin Fang, Xiaosheng Hu, PingAn	Special functional photodetectors based on low dimensional materials	Oral
535	Symposium 5: Functional Low dimensional,	Zhagypar, Nurzhan Satayeva, Gulzipa	Effects of ceramic nanoparticles on thermal properties of mineral transformer oil in	Poster



	Nano and 2D materials (FLNM)	Jamankulov, Erbolsyn Valinurov, R	nanofluids based on Al2O3 / AIN	
536	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Balzhan, Satanova Satayeva, Gulzipa Tazhbayev, Adilbek Arysbek, O	Technical problems of nanofluid research	Poster
537	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Bekzhanov, Yeldos Useinov, Abay Kamalbay, Kaysar Aidarkhanov, R	The production of cellulose fibers	Poster
538	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Lan, Lingyi; Ping, Jianfeng; Ying, Yibin	Highly Conductive Composite Film of Silver Nanowires Network "Nanosoldered" by Metallic MoS2 Nanosheets for Stretchable Strain Sensor and Self-powered Triboelectric Nanogenerator	Oral
539	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Bera, Abhijit; Bhagavatula, Prasad L V	2D metal thiolates as single source precursors for the preparation of semiconducting metal and bimetallic sulfide nanocrystals	Oral
540	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Xiang, Lan Wang, Jing Chen, Ruosong	Hierarchical ZnO Nano- architectures and their Photocatalytic Properties	Oral



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	Symposium			
	5: Functional			
	Low			
	dimensional,			
	Nano and	Chen, Ruosong	Light Activated Gas	
	2D materials	Wang, Jing	Sensing based on ZnO	
541	(FLNM)	Xiang, Lan	Nanocomposites	Oral
	Symposium			
	5: Functional			
	Low	Soni, Ankit;	Deposition and optical	
	dimensional,	Mulchandani,	properties of	
	Nano and	Komal;	crystallographically	
	2D materials	Mavani, Krushna	oriented porous ZnO	
542	(FLNM)	R	nanostructures	Oral
	Symposium			
	5: Functional			
	Low		Plasmon-Induced Optical	
	dimensional,		Emission Enhancement of	
	Nano and	Rightsell, Chris;	Trivalent Rare Earths in	
	2D materials	Large, Nicolas;	Hybrid Core-Shell	
543	(FLNM)	Sardar, Dhiraj K.	Nanostructures	Poster
	· · · · ·	WANG, XUAN		
		AUBRIT,		
		FLORIAN (1,2);		
		TESTARD,		
		FABIENNE		
		GUENOUN,		
	Symposium	PATRICK		
	5: Functional	ARADIAN,		
	Low	ASHOD		
	dimensional,	KILDEMO,	Block copolymer based	
	Nano and	MORTEN	self-assembled hyperbolic	
	2D materials	PONSINET,	metamaterial in the visible	
544	(FLNM)	VIRGINIE		Oral
544	Symposium		range	
	5: Functional			
	Low	Gunasekara,	Mass Transfer-Based	
		Disni		
	dimensional,		Methods for Controlling	
	Nano and	Kilani, Mohamed	the Growth of Charge-	
EAE	2D materials	Mao, Guangzhao	Transfer Salt	Oral
545	(FLNM)	Luo, Long	Micro/Nanowires	Oral



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546	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Chen, Hua Yun; Wang, Yi Xian; Qiu, Qi Ming	Scalable production of two dimensional metal-organic framework nanosheets by shear exfoliation applied for colorimetric detection of hydrogen peroxide	Oral
547	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Liu, Dan; Wu, Yuanpeng; Xue, Ye; Qin, Si; Wang, Xuebin; Hu, Xiao; Lei, Weiwei	"White graphene" and its nanocomposites for thermal management applications	Poster
548	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Thakur, Mukesh Kumar; Gupta, Akash; Chattopadhyay, Surojit	High responsivity broadband photo detection by graphene engineered core, and core-shell upconversion nanoparticles	Oral
549	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Fono-Tamo, Romeo Sephyrin; Tien-Chien, Jen	A castep study of TbBr3 structural and electronic properties	Oral
550	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Maji, Rita; Bhattacharjee, Joydeep	Switchable ferro- magnetism and more in layers of 2p block elements	Oral
551	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Singh, Sandeep	Modified Multiscale Computational Framework for the Nonlinear Dynamics Response of the Two-Dimensional Nanomaterials	Oral



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552	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Qiu, Qiming; Wang, Yixian; Chen, Huayun	Solution-Phase Synthesis of Noble Metal (Ag, Au, Pd) Nano-plates Decorat- ed 2D Metal-Organic Frame-work Hybrid Nanomaterials	Oral
553	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Singh, Chandra Veer; Filleter, Tobin; Mukherjee, Sankha	Nanomechanics of Graphene Oxide Nanosheets	Oral
554	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	BERA, ABHIJIT	A Solvent-less Solid State Grinding Method for the Synthesis of Dispersible Semiconducting Bimetallic Sulfide (Ternary) Nanocrystals	Poster
555	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Sasidharan, Sajitha; Prakash, Vivek; Ramakrishnan, Vibin	Hybrid Magnetic Material for Removal and Reduction of Heavy Metals	Oral
556	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Holdas, Serik Tazhibayev, Adilbek Kozhanov, N. Myrzakhmet, Marat	Semiconductor gas sensor based on tin oxide on-line monitoring of dissolved gas in transformer fluids	Poster
557	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	ALI, AZAM	Electrically conductive textile sensors made by silver and copper nanoparticles	Oral



	Symposium			
	5: Functional	Chang, Jeehan	Pinpoint Deposition of	
	Low	Lee, Jaekyeong	Nanoparticle Monolayer	
	dimensional,	Georgescu,	on Various Solid	
	Nano and	Andrei	Substrates without	
558	2D materials (FLNM)	Huh, Dan D. Kang, Taewook	Considering Surface Chemistry	Poster
556		Rang, Laewook	Raman spectroscopy	FUSIEI
	Symposium		characterization of	
	5: Functional	Ivanov, Victor	ultrathin metal-	
	Low	Genchev	chalcogenide and metal-	
	dimensional,	Faulques, Eric	halide nanowires	
	Nano and	Sloan, Jeremy	encapsulated in single-	
	2D materials	Kalashnyk,	walled carbon nanotubes	
559	(FLNM)	Nataliya	 theory and experiment 	Poster
		Insiti, Piboonwan		
		Parnsubsakul,		
	Symposium	Attasith (1,2);		
	5: Functional	Ngoensawat,		
	Low	Umphan	Biocellulose Nanocrystal-	
	dimensional,	Sapcharoenkun,	Assisted Fabrication of	
	Nano and	Chaweewan	Uniform Urchin-like Gold	
560	2D materials (FLNM)	Ekgasit, Sanong (1,2)	Film for Using as SERS Substrate	Poster
500	Symposium	Zhao, Xin (1,2);	Substrate	FUSICI
	5: Functional	Papageorgiou,		
	Low	Dimitrios		
	dimensional,	Zhao, Wen (3,4);		
	Nano and	Ding, Feng (3,4);	The Strength of	
	2D materials	Young, Robert	Mechanically-Exfoliated	
561	(FLNM)	(1,3)	Monolayer Graphene	Oral
		Ekgasit, Sanong		
	. .	(1,2);		
	Symposium	Sapcharoenkun,		
	5: Functional	Chaweewan	Fabrication of porous	
	Low	Suriya, Porapak	silver film by thermal	
	dimensional,	Jangtawe,	decomposition of rod	
	Nano and 2D materials	Parinton	shape silver acetate under	
562	(FLNM)	Nootchanat, Supeera	a suppressed sintering of nanoparticles	Oral
502	Symposium	ουρεεία	Room-temperature 3D	
	5: Functional	Kim, Sam-Soo;	integration of low-	
563	Low	Park, Sung-Eun;	dimensional nano and 2D	Oral
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	dimensional, Nano and 2D materials (FLNM)	Choi, Gyuseok; Kim, Yoonkap	materials on flexible substrates by transfer printing methods	
564	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Parnsubsakul, Attasith (1,2); Ngoensawat, Umphan Insiti, Piboonwan Sapcharoenkun, Chaweewan Ekgasit, Sanong (1,2)	In situ Rapid Synthesis of Gold Nanoparticles- Poly(dimethylsiloxane) Composite Films with Tunable Plasmonic Properties	Oral
565	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kumar, Pawan; Thakur, Deepa; Balakrishnan, Viswanath	Defect and phase engineering in 2D materials for Optoelectronic Applications	Invited
566	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zivieri, Roberto	A New Class of Metamaterials: 2D Ferromagnetic Nanostructures	Oral
567	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Khalil, Ahmed S. G.	Photocatalytic and Adsorption Performance of Hybrid Phases of MoS2 Nanosheets	Oral
568	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Faulques, Eric Sloan, Jeremy Ivanov, Victor Genchev Cordier, Stéphane Molard, Yann Costuas, Karine Duvail, Jean-Luc	Encapsulation of red-light- emitting phosphors in single-walled carbon nanotubes – from experiments to models	Oral



		Massuyeau, Florian Kalashnyk, Nataliya		
569	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Hantehzadeh, Mohammad Reza; Moniri, Samira	Colloidal Synthesis of Nano MoS2 by Nanosecond Laser Ablation of a Bulk MoS2 Target in an Organic Solution	Oral
570	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kavalsky, Lance; Mukherjee, Sankha; Singh, Chandra Veer	Metadynamics Biased Ab- Initio Molecular Dynamics Studies of Doped Phosphorene for Increased Ambient Stability	Oral
571	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Razal, Joselito	MXene Fibers: the New Member of Functional Fibers Made From Two Dimensional Nanosheets	Oral
572	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Stekovic, Dejan (1,3); Itkis, Mikhail E. (1,2,3)	Designing Fast Electrochromic Devices Based on Single-Walled Carbon Nanotube Thin Films	Oral
573	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Basu, Surita Naik, Bhukya Vishnu Kalluri, Ankarao Patra, Prabir Sarkar, Jayati	Dewetting assisted selfassembly/ origami formation and folding of graphene particles	Oral
574	Symposium 5: Functional Low dimensional,	Paulenová, Daša; Marták, Ján;	Preparation and physico- chemical properties of suspensions of graphene	Oral



	Nano and 2D materials (FLNM)	Schlosser, Štefan	oxide in solvent with ionic liquid	
575	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Park, Dongsung (1,2); Kim, Hye Jin Kim, Jae Hyun Hwang, Kyo Seon	Reduced Graphene Oxide (rGO) Based Solution- Gated Field Effect Transistor for Biosensing Platform	Poster
	Symposium 5: Functional Low dimensional, Nano and 2D materials	Lee Jr., Mark Wayne; Wang, Teng- Wei; Madugula, Dronareddy;	Pseudo-spherical Organic- inorganic Hybrid Nanomolecular Clusters Exhibiting Redox- controlled Fluorescence Switching and	
576	(FLNM) Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Clark, Madison Widawer, Bradley Harris; Tischler, Yaakov	Electrochomism Real-time Raman spectroscopy of laser- ablated PDMS stamps	Oral
578	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Hao, Hongliang; Wang, Shuai; Li, Huanhuan; Wu, Qingmeng; Fang, Yingcui	Strong Damping of the Localized Surface Plasmon Resonance of Metal Nanoparticles and its Applications	Oral
579	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	EGINLIGIL, Mustafa	Investigation of effect of lithium doping in silver nanowires	Oral
580	Symposium 5: Functional Low dimensional, Nano and	Petrov, Victor A.	Fano resonances at interference of electron waves in geometrically inhomogeneous	Poster



	2D materials		semiconductor 2D	
	(FLNM) Symposium		nanostructures	
	5: Functional	Zatsepin,		
	Low	Anatoly		
	dimensional,	Kuznetsova,		
	Nano and	Yulia	Planar photonic structures	
	2D materials	Zatsepin, Dmitry	based on Gd-implanted	
581	(FLNM)	Gavrilov, Nikolay	silica glasses and films	Poster
	Symposium			
	5: Functional			
	Low		Synthesis of pitrogen	
	dimensional, Nano and	Almaqwashi, Ali	Synthesis of nitrogen doped graphene/carbon	
	2D materials	Fouda, Aly (1,2);	nanotubes nanocomposite	
582	(FLNM)	Duraia, El Shazly	using urea and humic acid	Oral
	Symposium			
	5: Functional			
	Low		Source and Drain	
	dimensional,		Under/Overlap with the	
	Nano and		Gate in 1D GAA	
583	2D materials	Shirazi Shaahin	MOSFETs and TFETs: a Better Performance	Poster
505	(FLNM) Symposium	Shirazi, Shaahin	Beller Ferformance	FUSIEI
	5: Functional			
	Low			
	dimensional,			
	Nano and	Tan, Dan (1,2);	Flexoelectric effect of low-	
	2D materials	Willatzen,	dimensional graphene	
584	(FLNM)	Morten (1,2)	nanosheets	Oral
	Symposium			
	5: Functional			
	Low dimensional,			
	Nano and			
	2D materials		Sculpting Photocatalysts	
585	(FLNM)	Amirav, Lilac	on the Nano Scale	Oral
	Symposium			
	5: Functional			
	Low			
500	dimensional,		Sculpting Photocatalysts	Oral
586	Nano and	Amirav, Lilac	on the Nano Scale	Oral



	2D materials			
	(FLNM)			
	Symposium			
	5: Functional			
	Low		Ferrofluid for transformers:	
	dimensional,		is obtained by modification	
	Nano and	7h an aire anns	of mineral oil with	
587	2D materials (FLNM)	Zhengissova, Yerkezhan	magnetite nanoparticles Fe3O4	Oral
507	Symposium	TEINEZHAH	Fe304	Ulai
	5: Functional			
	Low		Two-Dimensional Metal	
	dimensional,		Chalcogenide	
	Nano and		Semiconductors: Design,	
	2D materials		Synthesis and	
588	(FLNM)	HE, JUN	Applications	Oral
	Symposium			
	5: Functional			
	Low			
	dimensional,		Green Printing	
	Nano and 2D materials		Technology for Manufacturing Functional	
589	(FLNM)	Song, Yanlin	Devices	Invited
000		LOPEZ		invitou
		MEDINA,		
		JAVIER		
		ALONSO		
		ORTIZ		
	Symposium	ATONDO, AXEL	ZnO Ultra-Thin Films	
	5: Functional	AGUSTIN	Growth on Magneto-	
	Low	Muñoz Muñoz,	Controllable Core-Shell	
	dimensional,	Franklin David	Nanoparticles	
	Nano and	Tiznado	Encapsulated With a	
590	2D materials (FLNM)	Vazquez, Hugo Jesus	Removable SiO2 Template	Poster
390	Symposium	<u>16909</u>		1 03101
	5: Functional			
	Low			
	dimensional,			
	Nano and		Controlled preparation of	
	2D materials		graphene and its	
591	(FLNM)	LIU, Yunqi	electronic properties	Invited



	Symposium			
	5: Functional			
	Low		Van der Waals	
	dimensional,		Semiconductors: Towards	
	Nano and		New and Emerging	
	2D materials		Electronic and Photonic	
592	(FLNM)	Amer, Moh	Devices	Invited
	Symposium	· · · ·		
	5: Functional			
	Low			
	dimensional,	Kempiński,		
	Nano and	Wojciech	Size effects and electronic	
	2D materials	, Kempiński,	properties of graphene-	
593	(FLNM)	Mateusz	based systems	Oral
	Symposium			
	5: Functional			
	Low	Karigerasi,		
	dimensional,	Manohar;		
	Nano and	Wagner, Lucas;	Uncovering anisotropic	
	2D materials	Shoemaker,	magnetic phases via fast	
594	(FLNM)	Daniel	dimensionality analysis	Oral
	Symposium			
	5: Functional			
	Low	Shen, Yue		
	dimensional,	Sun, Yanxia	Charges storage and	
	Nano and	Hai, Chunxi	transfer behaviors of	
	2D materials	Zhou, Yuan	single layer reduced	
595	(FLNM)	Zhang, Yi	graphene oxide sheets	Poster
	Symposium			
	5: Functional			
	Low	Kumavat, Sandip		
	dimensional,	Sonvane,		
	Nano and	Yogesh	MAPI monolayer with High	
	2D materials	Singh, Deobrat	Solar Efficiency: Ab-initio	
596	(FLNM)	Gupta, Sanjeev	Method	Oral
	Symposium	Li, Min		
	5: Functional	Liu, Fang		
	Low	Yuan, Hang	Effect of Ce doping on	
	dimensional,	Zheng, Hao	improvement of	
	Nano and	Ouyang,	luminescence	
	2D materials	Xiaoping (2,3,1);	performance for LaBr3	
597	(FLNM)	Wang, Huakang	crystals	Invited



	Symposium 5: Functional Low dimensional,	Samulionis, Vytautas	Two-dimensional	
598	Nano and 2D materials (FLNM)	Banys, Juras Vysochanskii, Yulian	CulnP2S6 family crystals and their applications for piezoelectric transducers	Oral
599	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Yongyi (1,2); Yang, Zhengpeng Niu, Yutao (2,3); Li, Qingwen	The In-situ fabrication of multi-level graphene fiber and its applications	Oral
600	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Huang, Mengbing; Malladi, Girish; Bakhru, Hassaram	Enhanced room- temperature magnetoresistance of metal/silicon/metal junctions with embedded nickel nanostructures formed by ion implantation	Oral
601	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhu, Xiaolu; Wang, Yingda; Zhao, Wenjie; Xu, Chunwang	Detecting Heavy Metal lons by Graphene Flakes- Based Microdevices	Poster
602	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Liu, Fang Ouyang, Xiao Liu, Bin Li, Min Ouyang, Xiaoping (3,4,1); Wang, Huakang Ma, Yan Lyu, Xuefeng Niu, Fenglei	Effect of crystal size on luminescence properties of CsI(TI) crystal under X- ray excitation	Poster
603	Symposium 5: Functional Low dimensional, Nano and	Li, Yang Zhang, Zhiqiang Song, Yu	An Electrochemical Sensor Modified with Renewable Copper Nano- Clusters for Continuous Nitrate Determination	Oral



	2D materials (FLNM)			
604	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kreve, Simone Vidal, Carla Alves, Oswaldo dos Reis, Andréa Candido	Self-curing reline resin with antimicrobial activity	Poster
605	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Li, Hongbian Li, Li Yang, Long Shi, Enzheng Shi, Jidong Cao, Anyuan Fang, Ying	Growth of CNT-weaved 2D hybrid films for flexible electronics	Oral
606	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kalem, Volkan; Akyıldız, Hasan	Synthesis of (Bi,Na)TiO3 nanoparticles by Colloidal Coating Method and Their Dielectric and Piezoelectric Properties	Oral
607	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zakhidov, Dante; Rehn, Daniel; Reed, Evan; Salleo, Alberto	Reversible 2H to 1T' Phase Change in Monolayer to Bulk MoTe2 by Ionic Liquid Gating	Oral
608	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kinik, Fatma Pelin; Stylianou, Kyriakos	2D metal free co- catalyst/metal organic framework hybrid materials for visible light photocatalytic hydrogen production	Oral
609	Symposium 5: Functional Low dimensional, Nano and	Friedli, Andrienne C. Ali, Muhammad O. Jakubowski, Rafal M.	High dielectric aniostropy fluid materials derived from boron clusters	Poster



	2D materials (FLNM)	Lukasik, Beata D. Pecyna, Jacek G. Pochiecha, Damian Kaszynski, Piotr (1,2,4)		
610	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Hui Zhang, Meng Liu, Pengtao (1,2); Liu, Xinliang	Preparation and Properties of Nanocellulose-based Flocculant	Poster
611	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Wang, Hao; Maiti, Rishi; Miscuglio, Mario; Sorger, Volker J.	All Optical Plasmonic WSe2 Based Modulator	Oral
612	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Khan, Muhammad Zaman; Baheti, Vijay; Militky, Jiri	Superhydrophobicity, UV protection and comfort properties of TiO2 nanoparticles coated cotton fabrics	Oral
613	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Shengxia; Liu, Jie; Zeng, Jian; Hu, Peipei; Maaz, Khan; Xu, Lijun	Effect of swift heavy ion irradiation induced latent tracks on the electronic transportation behavior in multilayer MoSe2	Poster
614	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Selvamani, Vijayakumar	In Vivo Contrast Studies on Breast Cancer tumor in Sprague dawley rats and Photothermal Therapy Using Gold Nanoparticles	Oral



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	Symposium			
	5: Functional			
	Low			
	dimensional,			
	Nano and		Graphene electrical	
	2D materials		properties modulated by	
615	(FLNM)	Zeng, Jian	swift heavy ion irradiation	Oral
	Symposium			
	5: Functional			
	Low		Influence of temperature	
	dimensional,		rise rates on the interfacial	
	Nano and		structure and mechanical	
	2D materials			
616		Li, Dejun;	stability of TiB2/BN	Poster
010	(FLNM)	Dong, Lei	superlattice coatings	
			Successful Journey of	
	Symposium		Conducting Polyaniline	
	5: Functional		from Non Soluble and Non	
	Low		Process able Powder to	
	dimensional,		Process able, Aqueous,	
	Nano and		Ink-jet Printable Ink for	
	2D materials	Kulkarni, Milind	Flexible Electronics	
617	(FLNM)	Vyankatesh	Applications	Invited
		Xu, Weinan		
		Paidi, Santosh		
		Qin, Zhao		
	Symposium	Huang, Qi		
	5: Functional	Yu, Chi-Hua		
	Low	Pagaduan,		
	dimensional,	Jayson		
	Nano and	Buehler, Markus	Self-folding hybrid	
	2D materials	Barman, Ishan	graphene skin for 3D	
618	(FLNM)	Gracias. David	biosensing	Oral
010	Symposium			
	5: Functional			
	Low		Designing and Echrication	
	dimensional,		Designing and Fabrication	
	Nano and		of efficient nano-materials	
0.10	2D materials	Shah, Wiqar	for thermoelectric	
619	(FLNM)	Hussain	generator	Oral
	Symposium		Fracture Strengths of	
	5: Functional	Wang, Bin (1,2);	Centimeter-Scale	
	Low	Ruoff, Rodney S.	Monolayer Graphene	
620	dimensional,	(2,3)	Films	Poster



Nano and			
2D materials			
(FLNM)			
Symposium			
	Zhao Vong	Organia Drintad Micrologar	
		•	Oral
<u> </u>	Sheng	Allays	Ulai
Low			
dimensional,			
Nano and		Quantum Chaos in the	
2D materials	rostampour,	K@C20@C80 nano-onion	
	elnaz	billiard	Poster
		Conomic instability and	
	Mohamed.		
2D materials	Hanan Ramadan	•	
(FLNM)	Hamad	and nano-nanoparticles	Invited
Symposium			
-		No notive Open a iteration	
	Liao Lei	5	Invited
1 /			invitod
5: Functional			
Low			
dimensional,		Epitaxial Growth and	
Nano and		Properties of 2D	
2D materials	WANG, Yeliang	Topological Antimonene	
1 /	(1,2)	and & Heterostructures	Invited
	Pacaolidanaah	Efficient performance of	
		•	
	•		
Nano and	Masoud		Poster
_	(FLNM)Symposium5: FunctionalLowdimensional,Nano and2D materials(FLNM)Symposium5: FunctionalLowdimensional,and2D materials(FLNM)Symposium5: FunctionalLowdimensional,and <td>2D materials (FLNM)</td> <td>2D materials (FLNM)Image: Constraint of the second second</td>	2D materials (FLNM)	2D materials (FLNM)Image: Constraint of the second



	2D materials (FLNM)		enantiomers using DFT- D3 calculations	
627	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Yerushalmi, Roie	Functional Nanowires for Device Applications; Electronic Plasmonic- enhanced Near-Infrared Detectors Using Nano- Floret Hybrids	Oral
628	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Chuang	Controlling the Crystallization Process in Hybrid Perovskite Films for Photodetector Application	Poster
629	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	DINI, Yoann (1,2,3); FAURE- VINCENT, Jérôme (1,3); DIJON, Jean (1,2)	Drastic improvement of CNT yarn electrical conductivity by chemical doping and annealing treatment	Oral
630	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Roth, Wieslaw J	Zeolites as low- dimensional materials combining nanopores and nanolayers	Oral
631	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Williams, Gary A.; Menachekanian, Emin; Iaia, Vito; Fan, Mingyu; Chen, Jingjing; Hu, Chaowei; Mittal, Ved; Liu, Gengming; Reyes, Raul; Wen, Fufang	Superfluid Onset and Compressibility of 4He Films Adsorbed on Multiwall Carbon Nanotubes	Oral



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	Symposium			
	5: Functional			
	Low			
	dimensional,		Selectively enhanced ion	
	Nano and		transport in graphene	
	2D materials		oxide membrane/PET	
632	(FLNM)	Vaa Huijun	conical nanopore system	Oral
032	· /	Yao, Huijun	conical hanopore system	Ulai
	Symposium			
	5: Functional			
	Low		· · · · · · · ·	
	dimensional,		Manipulation of Terahertz	
	Nano and	Zhang, Yin;	Wave with Tunable	
	2D materials	Zhao, Junming;	Graphene Metamaterial	
633	(FLNM)	Feng, Yijun	Structures	Poster
		Zhou, Xiaojing		
	Symposium	Gao, Wenyu		
	5: Functional	Heinig, Nina	Control of the Size and	
	Low	Kang, Jungsoo	Chemical Composition	
	dimensional,	Zhang, Lei	Selective Copper	
	Nano and	Thomas, Joseph	Nanocrystals on Highly	
	2D materials	Leung, Kam	Conductive Graphene	
624		•	•	Oral
634	(FLNM)	Tong	Sheet Electrode	Oral
		Zhang, Mengyu;		
	a .	Chen, Hao;		
	Symposium	Yin, Jinde;		
	5: Functional	Zhang, Min;	Two-dimensional layered	
	Low	Wang, Jinzhang;	materials based van der	
	dimensional,	Wang, Jintao;	Waals heterostructures	
	Nano and	Ruan,	and their applications for	
	2D materials	Shuangchen;	broadband optical	
635	(FLNM)	Yan, Peiguang	modulators	Oral
	Symposium		Violet-blue-shift of	
	5: Functional		spectrum and enhanced	
	Low	Reddy,	luminescent properties of	
	dimensional,	Leelakrishna;	Ca3(PO4)2:Ce3+	
	Nano and	Nkosi, Thabang;	phosphor induced by	
	2D materials	Avula,	small amount of Gd3+	
626				Postor
636	(FLNM)	Balakrishna	incorporation	Poster
	Symposium	TV,		
	5: Functional	Beatriceveena	Selective sensing	
	Low	(1,2);	behaviour of 1D beta-	
	dimensional,	E, Prabhu	Ag2MoO4 nanorods	
637	Nano and	K I, Gnanasekar	towards ammonia	Poster



	2D materials (FLNM)			
638	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Hua, Tao	One- and Two- dimensional Fiber-based Sensing and Energy Storage Devices based on Conductive Materials and Yarn/Fabric Substrates	Oral
639	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Abdullah, Mohammad Margub	Legitimate Evaluation of Sensor Properties	Oral
640	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Wenting; Wang, Fenxia; Guo, Xiaoxing; Yan, Zhaowen; Li, Yumiao; Yang, Jianhong	Floating Gate Memory Device with Organic Active Layer Based on SOI Substrate	Oral
641	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Jang, Hyuk Jae; Kim, Min Seok; Lee, Gil Ju; Song, Young Min	Reobservation of GaN Nanostructures for Random Laser	Poster
642	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Sarkar, Abdus Salam; Mushtaq, Aamir; Pal, Suman Kalyan	Exciton and phonon dynamics in two- dimensional tin(II) monosulfide	Oral
643	Symposium 5: Functional Low dimensional, Nano and	Ahmad, Kaleem Wan, Chunlei	Thermoelectric properties of Lead Telluride (PbTe) based single wall carbon nanotube (SWCNT) composites	Oral



	2D materials			
	(FLNM)			
644	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	zafar, fahmina Sharmin, Eram Nishat, Nahid	Agro byproduct derived functional materials: Synthesis and characterizations	Oral
645	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Nishat, Nahid	Schiff base derived coordination complexes / polymeric materials for biological applications	Invited
646	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Xin, Wenbo; De Rosa, Igor M; Carlson, Larry; Yang, Jenn-Ming	Graphene-Templated Growth of Surfactant-free Anisotropic Gold Nanocrystals	Oral
647	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Olayo-Valles, Roberto; Hernández- Guzmán, Mario A.; González- Calderón, Luis E.	Composite Magnetic Particles Coated by Plasma Polymerization for Drug Delivery	Poster
648	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Ittara, Suresh Kattimuttathu	Amphiphilic comb polymer modified graphene surfactant for electrochemical sensing of dopamine and ascorbic acid.	Oral
649	Symposium 5: Functional Low dimensional, Nano and	Rybalchenko, Alexey V. Solovyeva, Vera A. Akhmetov, Vladimir A. (1,2);	Non-Planar Polyenes: a Circuit Boards with Tunable Electronic Properties	Oral



	2D materials (FLNM)	Lukonina, Natalia S. Amsharov, Konstantin Yu. Goryunkov, Alexey A.		
650	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	KUANR, BIJOY KUMAR	Magnetization dynamics in La1-XSrxMnO3 nanoparticles	Poster
651	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Das, Kausiksankar Barnes, Benjamin Bane, Nathan Elkholy, Ibrahim Olofin, Samuel	Pulsed Laser Scribed Graphene/Polymer composites: A Potential Route to Print on-chip Carbon Nano-Coil Inductors	Poster
652	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	AlMishal, Saeed Sameer Ibrahim Hatem, Tarek Moustafa El-Mahallawi, Iman Salah Eldin	A Molecular Dynamics Study of Perovskite Structure Crystal Correlations	Oral
653	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Wang, Ying; Wang, Sansheng	Preparation of graphene oxide and graphene by two-step oxidiation	Poster
654	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Bhale, Pranav Ari-Gur, Pnina Koledov, Victor Shavrov, Vladimir	The Effect of Processing on the Structure and Texture of Melt-spun Ti2NiCu Shape Memory Ribbons	Oral
655	Symposium 5: Functional	Zhang, Yong	The road toward miniaturization and	Plenary



	Low dimensional, Nano and 2D materials (FLNM)		integration of ionization sensors following advanced MEMS	
656	Symposium 6: Functional Thin Films (FTF)	Elhadj, Selim; Yoo, Jae Hyuck	Lifetime optical damage of wide bandgap semiconductor-based thin film transparent electrodes	Invited
657	Symposium 6: Functional Thin Films (FTF)	Singh, Kamaljit; Kaur, Paramjit	Functional organic materials: Synthesis and Structure dependent Charge transport and nonlinear optical behaviour of tetrathia/oxa[22]porphyrin(2.1.2.1)s and donor- acceptor dyads	Invited
658	Symposium 6: Functional Thin Films (FTF)	Ugwu, Emmanuel Ifeanyi	Theoretical Approach to Study the Solid State and Optical Characteristics of calcium Sulpide[CaS] Thin Film.	Oral
659	Symposium 6: Functional Thin Films (FTF)	Samoylov, Alexander Ryabtsev, Stanislav Ivkov, Sergey Turishchev, Sergey Shaposhnik, Alexey Badica, Petre	Palladium (II) Oxide Nanostructures for Detection of Ozone and Nitrogen Dioxide in Ambient Air	Oral
660	Symposium 6: Functional Thin Films (FTF)	Harmgarth, Nicole; Zörner, Florian; Liebing, Phil; Burte, Edmund P.; Silinskas, Mindaugas; Engelhardt, Felix;	Molecular Precursors for the Phase-Change Material Germanium- Antimony-Telluride, Ge2Sb2Te5 (GST)	Oral



		Edelmann, Frank T.		
661	Symposium 6: Functional Thin Films (FTF)	Ukoba, Kingsley; Jen, Tien-Chien; Akbarzadeh, Rokhsareh	Review of Atomic Layer Deposition of Nanostructured Solar Cells	Oral
662	Symposium 6: Functional Thin Films (FTF)	Ukoba, Kingsley; Jen, Tien-Chien	Modeling the Optoelectronic properties of Nanostructured metal oxide Solar Cells	Oral
663	Symposium 6: Functional Thin Films (FTF)	Ugwu, Emmanuel Ifeanyi	Theoretical Approach to Study the Solid State and Optical Characteristics of calcium Sulpide[CaS] Thin Film.	Oral
664	Symposium 6: Functional Thin Films (FTF)	BEN JOSHUA, ROBERT	Taming the optical and morphological properties of chemically deposited Zinc Sulphide thin films for use in sustainable energy devices	Oral
665	Symposium 6: Functional Thin Films (FTF)	Dhanabalan, Shanmuga sundar Avaninathan, Sivanantha Raja Carrasco, Marcos Flores	Characterization of ITO & Gold Thin films on Novel Flexible PDMS substrate for Flexible Electronic Devices	Poster
666	Symposium 6: Functional Thin Films (FTF)	S., HARISANKAR; CHANDRA, MAHESH	Interfacial Ferromagnetism and Exchange Bias in NdNiO3/NdMnO3 Multilayers	Oral
667	Symposium 6: Functional Thin Films (FTF)	Wang, Jingxia (1,2)	Superwettability of Colloidal Photonic Crystals	Oral
668	Symposium 6: Functional Thin Films (FTF)	NWOFE, PATRICK AKATA; ELE, Samuel Ugochukwu; EZEOKOYE,	Morphological and optical properties of chemically deposited magnesium doped-antimony sulphide thin films for use in optoelectronic applications	Poster



		Chinenye; AGBO, PETER EKUMA		
669	Symposium 6: Functional Thin Films (FTF)	S., HARISANKAR	Tuning non-Fermi liquid behavior by Oxygen variation and epitaxial strain in PrNiO3-δ thin films	Poster
670	Symposium 6: Functional Thin Films (FTF)	gong, lei wu, zhensen gao, ming wang, liguo li, yaqing wang, qian	Research on full- polarization light scattering characteristics from periodic nanoparticles upon micro roughness films system	Poster
671	Symposium 6: Functional Thin Films (FTF)	HENRNANDEZ PADRON, GENOVEVA CASTAÑO MENESES, VICTOR	Development of Anticorrosive Hybrid Epoxy Resin Coatings	Poster
672	Symposium 6: Functional Thin Films (FTF)	Yang, Yunyun (1,2); He, Ximin	In-situ Preparation of a Biaxial Molecular Ferroelectric / Polymer flexible films with High-K Dielectric Properties	Oral
673	Symposium 6: Functional Thin Films (FTF)	KREMPASKY, JURAJ	GeTe(111) ferroelectric and (GeMn)Te multiferroic Rashba semiconductor: a novel paradigm for spintronic applications	Invited
674	Symposium 6: Functional Thin Films (FTF)	Sun, Mo; Liu, Ning; He, Ximin	Hydrogel Thin Film Interferometer Sensor for Metal Detection	Oral
675	Symposium 6: Functional Thin Films (FTF)	Ren, Jiaoyu; Ge, Liqin	Double network self- healing film and its Biological Activities	Oral
676	Symposium 6: Functional Thin Films (FTF)	Lei, Weiwei; Qin, Si; Chen, Cheng; Wang, Jiemin	Functional boron nitride membranes and their applications in energy harvesting and water purification	Oral



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677	Symposium 6: Functional Thin Films (FTF)	Ge, Cheng-xian Wu, Zhen-sen Bai, Jing Gong, Lei	A Numerical Study about Optical Trapping Properties of Nanoparticle on Composite Metallic Film	Poster
678	Symposium 6: Functional Thin Films (FTF)	Hu, Ertao Wu, Ying Chen, Liangyao Wei, Wei	High efficient and thermally stable solar selective absorbers based on multi-layered metal/dielectric film structure	Oral
679	Symposium 6: Functional Thin Films (FTF)	ZHONG, Hong WANG, Yuanhao LU, Lin	A novel functional thin film based on black TiO2: super-amphiphobic surface transfer to super- hydrophilic/super- oleophobic surface via nature light activation	Oral
680	Symposium 6: Functional Thin Films (FTF)	Kontturi, Eero Meng, Zhuojun Hakalahti, Minna Niinivaara, Elina (1,3); Tammelin, Tekla	Specific Water/Vapor Uptake of Ultrathin Films of Cellulose: Paving the Way for New Responsive Materials from Renewable Polymers	Oral
681	Symposium 6: Functional Thin Films (FTF)	Runka, Tomasz Kaluzny, Jaroslaw Dewo, Wioletta Zorenko, Yuriy Gorbenko, Vitaliy	Raman spectroscopy of doped single crystalline films of perovskites grown using liquid-phase epitaxy method	Oral
682	Symposium 6: Functional Thin Films (FTF)	Szczurek, Anna; Kaleta, Jerzy; Krzak, Justyna	Organically functionalized sol-gel silica coatings on polymers for reduction of gas leakage	Oral
683	Symposium 6: Functional Thin Films (FTF)	Michels, Jasper Joost	Structuring polymer solutions upon liquid- vapor mass exchange	Oral
684	Symposium 6: Functional Thin Films (FTF)	Ribeiro, Anielen; Blom, Paul; Michels, Jasper	Polymer light-emitting diodes with an emitting layer based on a nano- confined semiconducting polymer blend	Oral



	Symposium 6: Functional Thin Films	Ghorab,	Nano Surface Coating of Pure Water PP Sediment Filter by P.V.D method to	
685	(FTF)	Farzaneh	Reduce Biomass Affection	Poster
			Nitridation of a TiO2	
	Sumposium		based sol-gel diffraction	
	Symposium 6: Functional		grating to a metal-like TiN- based plasmonic grating	
	Thin Films		extended in tubular	
686	(FTF)	Koussi, Erika	geometries	Oral
		Thibodeaux,		
		Khadijah (1,2);		
		Kimmerly,		
		Gabriella (1,3); Reim, Bethany		
		(1,4);	Roll-to-roll processing of	
	Symposium	Froland, Jensina	supported lipid bilayers:	
	6: Functional	(1,3);	flexible substrates, rapid-	
	Thin Films	Sanii, Babak	prototyped inking, and	
687	(FTF)	(1,3,4,5)	shippable membranes	Oral
		Tammelin, Tekla		
		Putkonen, Matti Gestranius,	Superlattice Structures of	
	Symposium	Marie	Plant-sourced	
	6: Functional	Karppinen,	Nanomaterials Hybridized	
	Thin Films	Maarit	with Inorganic thin films for	
688	(FTF)	Kontturi, Eero	Thermoelectric Materials	Oral
	Symposium		Cellulose Thin Film	
	6: Functional Thin Films		Technology - Current Status and Future	
689	(FTF)	Spirk, Stefan	Challenges	Oral
003	(' ' ')	Gao, Haiping;	Nanocomposite ion	
		Tong, Xin;	exchange membranes and	
	Symposium	Liu, Su;	free-standing graphene	
	6: Functional	Zhang, Bopeng;	oxide membrane in salinity	
	Thin Films	Chen,	gradient energy	
690	(FTF)	Yongsheng	generation	Oral
	Symposium 6: Functional	Zhai, Shengjie;	Programmable High- Efficiency Quasi-Random	
	Thin Films	Zhai, Shengjie, Zhao, Yihong;	Nanostructures for Light	
691	(FTF)	Zhao, Hui	Harvesting Devices	Oral
	Symposium	, -	Preparation and	
692	6: Functional	Chen, Xiaoyang	Characterization of	Oral



	Thin Films (FTF)		CaZrO3 films prepared by RF sputtering technology	
693	Symposium 6: Functional Thin Films (FTF)	Yu, Ping	Enhancement of breakdown strength of ferroelectric films by constructing an oxygen vacancies migration barrier	Poster
	(,		Appearance and Disappearance of	
694	Symposium 6: Functional Thin Films (FTF)	Migita, Shinji; Ota, Hiroyuki	Ferroelectric Phase in Crystalline HfO2 Thin Films Induced by Annealing Procedure	Oral
695	Symposium 6: Functional Thin Films (FTF)	Tong, Xin; Liu, Su; Gao, Haiping; Zhang, Bopeng; Chen, Yongsheng	A freestanding graphene oxide membrane for harvesting salinity gradient power and recovering waste heat	Oral
696	Symposium 6: Functional Thin Films (FTF)	Paras, Neha; Chauhan, Sudakar Singh	Line Tunneling Based TFET for Low Power and High Speed Switching Applications with Improved Linearity	Oral
697	Symposium 6: Functional Thin Films (FTF)	Rahman, Mohammad Mizanur	Self Polishing Properties of Antifouling Polyurethane Coatings	Oral
698	Symposium 6: Functional Thin Films (FTF)	Wang, Zhifang Cheng, Peng Chen, Yao Zhang, Zhenjie (1,2)	Fabrication of Freestanding and Nanoperforated Polymer- COF Membranes with Remarkable Mechanical Properties	Oral
699	Symposium 6: Functional Thin Films (FTF)	PARK, Yong Tae KIM, Dongseob CHOI, Kyungwho CHOI, Dukhyun	Layer-by-Layer Assembled Graphene Multilayers: Applications for Flexible Energy Harvesting Generators	Oral
700	Symposium 6: Functional	Ramanavicius, Simonas;	Titanium suboxides synthesis by direct oxidation method	Oral



	Thin Films (FTF)	Jagminas, Arunas		
701	Symposium 6: Functional Thin Films (FTF)	Paz, Yaron; Dinner, Omry; Grader, Gideon	Orthogonal fractal growth of CsI domains forming a ladder-like structure	Oral
702	Symposium 6: Functional Thin Films (FTF)	Seeger, Stefan; Olveira, Sandro; Artus, Georg; Saddiqi, Naeem	The DAGS-Chemistry: Droplet Assisted Growth and Shaping for Synthesis of Polymeric Nano- And Microstructures	Oral
703	Symposium 6: Functional Thin Films (FTF)	HENRNANDEZ PADRON, GENOVEVA BLANCO HERNANDEZ, ALEJANDRA	DEVELOPMENT OF HYBRID FILMS BY RECYCLED POLYSTYRENE	Poster
704	Symposium 6: Functional Thin Films (FTF)	Lopez Medina, Javier Alonso Portelles, Jorge Ortiz Atondo, Axel Agustin Huerta Salcedo, Juan Antonio Soto, Gerardo Tiznado Vázquez, Hugo Farías Sánchez, Mario	Electrical and Optical Properties in Ultrathin Capacitors Base on Al2O3 – Y2O3 Growth Via Atomic Layer Deposition	Poster
705	Symposium 6: Functional Thin Films (FTF)	Lopez Medina, Javier Alonso Marquez, Heriberto Borbon Nuñez, Hugo Alejandro Farías Sánchez, Mario Tiznado Vázquez, Hugo Soto Herrera, Gerardo	Non-quarter-wave dielectric mirror prepared by thermal atomic layer deposition	Poster
706	Symposium 6: Functional	Guan, Xinchun (1,2);	Study on compatibility between thick-film	Oral



	Thin Films (FTF)	Wen, Ming (1,2); Li, Hui (1,2); Ou, Jinping (1,2)	resistors and fluorophlogopite glass- ceramic substrate	
707	Symposium 6: Functional Thin Films (FTF)	Gu, Zhi-Gang	Epitaxial Growth and Application of Oriented Metal-Organic Framework Thin Film	Oral
708	Symposium 6: Functional Thin Films (FTF)	Li, Sishi (1,2); Song, Gongsheng (1,2); Yang, Yanpeng Pan, Chunxu (1,2)	Preparation of Metal-Gr Composite Coatings via Electro-plating for High Corrosion Resistances	Invited
709	Symposium 6: Functional Thin Films (FTF)	Huran, Jozef (1,5); Bohacek, Pavol Sasinkova, Vlasta Kleinova, Angela Mikolasek, Miroslav Kobzev, Alexander P. Sekacova, Maria Arbet, Juraj	Amorphous silicon carbide thin films doped with P or B for the Photoelectrochemical water splitting devices	Oral
710	Symposium 6: Functional Thin Films (FTF)	Huran, Jozef (1,2); Balalykin, Nikolay I. Sasinkova, Vlasta Kleinova, Angela Nozdrin, Mikhail A. Kobzev, Alexander P. Kovacova, Eva	N-doped nanostructured carbon very thin films on quartz and sapphire substrate: Photo-electron emission properties	Poster
711	Symposium 6: Functional Thin Films (FTF)	Behera, Ajit	NiTi thin film shape memory alloys: A Smart Materials	Invited



712	Symposium 6: Functional Thin Films (FTF)	LAI, Wen-Yong	Printable Conductive Thin Films for Flexible Electronics	Invited
713	Symposium 6: Functional Thin Films (FTF)	Juha, Libor	Radiation processing of functional materials with XUV/x-ray laser pulses	Oral
714	Symposium 6: Functional Thin Films (FTF)	Zakrzewska, Katarzyna Ewa Maziarz, Wojciech Radecka, Marta Mazur, Michał Wojcieszak, Damian Kaczmarek, Danuta	CuO/TiO2 p-n thin film nanoheterostructures for gas sensing applications	Oral
715	Symposium 6: Functional Thin Films (FTF)	Basu, Aviru Kumar; Bhattacharya, Shantanu	Study of p-type and n-type behaviour of fast response-recovery rGO- α-Fe2O3 based acetic acid sensor	Oral
716	Symposium 6: Functional Thin Films (FTF)	Shivakumar, Kilingaru I. Kapusciński, Szymon Jasiński, Marcin Cigl, Martin Szczytko, Jacek Monobe, Hirosato Pociecha, Damian Kaszynski, Piotr (1,2,6)	Functional materials derived from exceptionally stable π-delocalized radicals	Oral
717	Symposium 6: Functional Thin Films (FTF)	Gu, Shulin; Zhu, Shunming; Liu, Dongyang; Zhao, Weikang; Hao, Licai; Tang, Kun;	Low temperature Growth and Characterization of GaN Films via Local Nitrogen Plasma Metalorganic Chemical Vapor Deposition	Oral



		Ye, Jiandong; Zheng, Youdou		
718	Symposium 6: Functional Thin Films (FTF)	Hsieh, Jang- Hsing Wu, S. H. Li, C. Lin, Y. C.	Preparation and Characterization of horizontally-aligned porous Ta, TaON, and Ta2O5 films synthesized by co-sputtering and de- alloying approach	Oral
719	Symposium 6: Functional Thin Films (FTF)	Demirci, Musa Bagci, Mehmet	INVESTIGATION OF THERMAL BARRIER COATINGS BOND AND TOP COAT HIGH TEMPERATURE SOLID PARTICLE EROSION RESISTANCE	Oral
720	Symposium 6: Functional Thin Films (FTF)	Yu, Zhijia	Fabrication of Super- Hydrophobic Micro-Tube and Studies on Water Convective Heat Transfer in the Micro-Tube	Oral
721	Symposium 6: Functional Thin Films (FTF)	Clark, Woodrow	Thin Solar Film ALL Solar Powered Cars	Invited
722	Symposium 6: Functional Thin Films (FTF)	Tajuddin, Muhammad Hanis (1,2); Yusof, Norhaniza (1,2); Wan Salleh, Wan Norharyati (1,2); Ismail, Ahmad Fauzi (1,2); Jaafar, Juhana (1,2); Aziz, Farhana (1,2)	Tailoring the properties of polyamide thin film membrane with layered double hydroxide nanoclay for enhancement in water separation	Oral
723	Symposium 6: Functional Thin Films (FTF)	Mahmood, Waqar Thomas, Andrew	Pronounced impact of Te- enrichment on physical properties of ZnTe thin	Oral



		ullah, Saif	films for solar cell	
		Butt, Sajid	applications	
		Shougaijam, Biraj		
	Symposium	Ngangbam,	Investigation of Au	
	6: Functional	Chitralekha	Nanoparticle assisted	
704	Thin Films	Lenka, Trupti	TiO2 Nanowires for Solar	Oral
724	(FTF)	Ranjan	Cell Applications Influence of 120 MeV Ti9+	Oral
			ion beam induced	
			modification on structural,	
			optical, and surface	
	Symposium	Chauhan, Vishnu	morphological properties	
	6: Functional	Kumar, Vikas	of nanocrystalline ZnO	
	Thin Films	Koratkar, Nikhil	thin films grown by Atomic	
725	(FTF)	Kumar, Rajesh	Layer Deposition	Oral
	_		Influence of pulse reverse	
	Symposium		current electroplating	
	6: Functional	A	parameters of Ni - nano	
700	Thin Films	Annamalai,	Al2O3 composite coatings	Oral
726	(FTF)	Jegan	on AISI 304 stainless steel Novel Pi-Electron	Oral
	Symposium 6: Functional		Molecular Scaffolds for	
	Thin Films		Mesophase	
727	(FTF)	Zhao, Ke-Qing	Semiconductors	Oral
	()	Erdogan, Nursev		
		Astarlıoglu, Aziz		
		Taner		
		Ozbay, Salih		
		Erden, Fuat		
	o .	Ece, Remzi	Transparent and	
	Symposium	Ecmel	Conductive ITO/Au/ITO	
	6: Functional	Ozdemir, Mehtap	Multilayer Thin Films with	
728	Thin Films (FTF)	Aygun, Gulnur	Enhanced EMI Shielding	Oral
120	Symposium	Ozyuzer, Lutfi	Properties Graphite phase carbon	Oral
	6: Functional		nitride based membrane	
	Thin Films		for achiral/chiral	
729	(FTF)	Liu, Bo	separation	Oral
	Symposium	Tao, Ping (1,2);	Modulation of the	
	6: Functional	Wang, Yiming	Electronic Structure of	
	Thin Films	cheng, Henry	Ge1-xSnx alloy films by	
730	(FTF)	Cai, Hongling	Strain and Composition	Poster



		Zhang, Fengming		
		Wu, Xiaoshan		
		Huang, Shisong (1,2); Qian, Bin Zhang, Zhe	Transport properties in	
	Symposium 6: Functional Thin Films	Ji, Qing Zhang, Fengming	YBa1.85Eu0.15Cu3O7- δ/La0.67Ca0.33MnO3 superlattices grown on	
731	(FTF)	Wu, Xiaoshan	(001) SrTiO3 substrate	Poster
732	Symposium 6: Functional Thin Films (FTF)	Shahot, Khaled Muftah	Investigation of Activated Carbon Coating in the Adsorption Process of Methylene Blue from Aqueous Solution	Oral
	Symposium 6: Functional Thin Films	Cheng, Shao- Dong (1,2); Cheng, Sheng Lu, Lu Liu, Ming	Structural investigation of (Pr0.5Ba0.5MnO3)0.8:(Ce O2)0.2 nanocomposite films prepared on (001) (La,Sr)(Al,Ta)O3	
733	(FTF)	Mi, Shao-Bo	substrates	Poster
734	Symposium 6: Functional Thin Films (FTF)	Afzal, Ali; Khan, Mydah; Mumtaz, Aroobah; Ali, Ehsan; Javid, Amjad; Qadir, M. Bilal	Coating of Citrus Cellulosic Extracted from Citrus Waste on Fabric for Technical Applications	Oral
735	Symposium 6: Functional Thin Films (FTF)	Wu, Sheng- Qiang; Jin, Xiao-Wei; Cheng, Sheng; Lu, Lu; Liu, Ming; Mi, Shao-Bo	Temperature-dependent B-site ordering in double- perovskite La2NiMnO6 films	Oral
736	Symposium 6: Functional Thin Films (FTF)	Zhou, Zhen; Li, Jing-Feng	Thickness-dependent phase transition and piezoelectricity in lead-free Bi0.5Na0.5TiO3-BaTiO3 epitaxial films	Oral



	Symposium 6: Functional	Zhang, Wenxu; Zeng, Huizhong;	The Inverse Rashba	
737	Thin Films (FTF)	Peng, Bin; Zhang, Wanli	Edelstein Effect at the conducting SrTiO3 surface	Poster
	Symposium 6: Functional Thin Films	Chen, Zimin; Li, Zeqi;	Heteroepitaxy of ε-Ga2O3 thin films by metal organic	
738	(FTF)	Wang, Gang	chemical vapor deposition	Poster
739	Symposium 6: Functional Thin Films (FTF)	Chen, Xiaoyang; Yu, Ping	The effects of Ar/O2 ratio on the structure and properties of CaZrO3/Ca0.15Zr0.85O1. 85 composite films	Poster
740	Symposium 6: Functional Thin Films (FTF)	Figueroa, Jose; Cao, Yunqi; Pastrana, Juan; Sepulveda, Nelson	Time-response limits on vanadium dioxide micrometer-sized actuators	Oral
741	Symposium 6: Functional Thin Films (FTF)	Zhu, Hong (1,2); Wang, Haoru Lin, Guankai Cai, Xuhui Xie, Xiangnan	Helium doping in manganite films via. magnetron sputtering in He-mixed atmosphere: A simple strategy for uniaxial strain engineering	Oral
742	Symposium 6: Functional Thin Films (FTF)	Qie, Zihan Gao, Wenjing Cao, Qinglong Lei, Qiao (1,2,3)	Effect of Maillard reaction on barrier and antioxidant properties of whey protein isolate/pullulan based edible films	Poster
743	Symposium 6: Functional Thin Films (FTF)	Lee, Jason Kuo, TaiChen	A novel method to fabricate a thick film Cu electrode fired in air	Oral
744	Symposium 6: Functional Thin Films (FTF)	Li, Fang; Wang, Sansheng	Vortex manipulation with dots and antidots on superconductivity of REBa2Cu3O7-δ films growth by trifluoroacetate metal organic deposition method	Poster
745	Symposium 6: Functional	Abouarab, Hanan Kassry, Amal	Optical Properties and Microstructure of Ti, TiNi	Oral



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