



**AAAFM - UCLA 2019 Abstract Announcement**

(List of Accepted Abstracts for SS05 - Functional Low dimensional, Nano and 2D materials (FLNM) for the AAAFM – UCLA 2019)

American Association for Advances in Functional Materials

<b>Serial No:</b>	<b>Symposium</b>	<b>Authors</b>	<b>Title</b>	<b>Mode of Presentation</b>
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 2D materials (FLNM)	Shi, Zhiming	Controlling of the microstructure to improve humidity sensing behaviors of titania based nanofilms by RE-doping	Oral
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 MoS <sub>2</sub> 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 WS <sub>2</sub> for NO <sub>2</sub> and H <sub>2</sub> 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 2D materials (FLNM)	Black, David Michael Lopez, Priscilla Orr, Elizabeth Lara, Humberto Herman Alvarez, Marcos Miguel Baghdesarian, Glen Lopez Ribot, Jose Luis Whetten, Robert Lloyd	Super Atom Complexes with Antiviral and Bactericidal Activity	Oral
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
531	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Rodríguez, Juan Ignacio Vergara-Beltran, Ulises Asael Resendiz- Serrano, Dulce María Autschbach, Jochen	Optical and charge transport properties of gold-nanocluster complexes: single- molecule nanowires	Poster
532	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Jue, Melinda; Chen, Chiatai; Buchsbaum, Steven; Meshot, Eric; Park, Sei Jin; Wu, Kuang Jen; Fornasiero, Francesco	Wafer-scale nanofiltration membranes with a high density of narrow SWNT pores	Oral
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,	Chen, Hongyu Dai, Mingjin Fang, Xiaosheng Hu, PingAn	Special functional photodetectors based on low dimensional materials	Oral



	Nano and 2D materials (FLNM)			
535	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhagypar, Nurzhan Satayeva, Gulzipa Jamankulov, Erbolyn Valinurov, R	Effects of ceramic nanoparticles on thermal properties of mineral transformer oil in nanofluids based on Al <sub>2</sub> O <sub>3</sub> / AlN	Poster
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 MoS <sub>2</sub> 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
541	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Chen, Ruosong Wang, Jing Xiang, Lan	Light Activated Gas Sensing based on ZnO Nanocomposites	Oral
542	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Soni, Ankit; Mulchandani, Komal; Mavani, Krushna R	Deposition and optical properties of crystallographically oriented porous ZnO nanostructures	Oral
543	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Rightsell, Chris; Large, Nicolas; Sardar, Dhiraj K.	Plasmon-Induced Optical Emission Enhancement of Trivalent Rare Earths in Hybrid Core-Shell Nanostructures	Poster
544	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	WANG, XUAN AUBRIT, FLORIAN (1,2); TESTARD, FABIENNE GUENOUN, PATRICK ARADIAN, ASHOD KILDEMO, MORTEN PONSINET, VIRGINIE	Block copolymer based self-assembled hyperbolic metamaterial in the visible range	Oral
545	Symposium 5: Functional	Gunasekara, Disni	Mass Transfer-Based Methods for Controlling	Oral



	Low dimensional, Nano and 2D materials (FLNM)	Kilani, Mohamed Mao, Guangzhao Luo, Long	the Growth of Charge-Transfer Salt Micro/Nanowires	
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 TbBr <sub>3</sub> 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	Singh, Sandeep	Modified Multiscale Computational Framework for the Nonlinear	Oral



	dimensional, Nano and 2D materials (FLNM)		Dynamics Response of the Two-Dimensional Nanomaterials	
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,	ALI, AZAM	Electrically conductive textile sensors made by silver and copper nanoparticles	Oral





	Nano and 2D materials (FLNM)			
558	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Chang, Jeehan Lee, Jaekyeong Georgescu, Andrei Huh, Dan D. Kang, Taewook	Pinpoint Deposition of Nanoparticle Monolayer on Various Solid Substrates without Considering Surface Chemistry	Poster
559	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Ivanov, Victor Genchev Faulques, Eric Sloan, Jeremy Kalashnyk, Nataliya	Raman spectroscopy characterization of ultrathin metal-chalcogenide and metal-halide nanowires encapsulated in single-walled carbon nanotubes – theory and experiment	Poster
560	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Insiti, Piboonwan Parnsubsakul, Attasith (1,2); Ngoensawat, Umphan Sapcharoenkun, Chaweewan Ekgasit, Sanong (1,2)	Biocellulose Nanocrystal-Assisted Fabrication of Uniform Urchin-like Gold Film for Using as SERS Substrate	Poster
561	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhao, Xin (1,2); Papageorgiou, Dimitrios Zhao, Wen (3,4); Ding, Feng (3,4); Young, Robert (1,3)	The Strength of Mechanically-Exfoliated Monolayer Graphene	Oral
562	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Ekgasit, Sanong (1,2); Sapcharoenkun, Chaweewan Suriya, Porapak Jangtawe, Parinton Nootchanat, Supeera	Fabrication of porous silver film by thermal decomposition of rod shape silver acetate under a suppressed sintering of nanoparticles	Oral



563	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kim, Sam-Soo; Park, Sung-Eun; Choi, Gyuseok; Kim, Yoonkap	Room-temperature 3D integration of low-dimensional nano and 2D materials on flexible substrates by transfer printing methods	Oral
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 MoS <sub>2</sub> Nanosheets	Oral
568	Symposium 5: Functional Low dimensional, Nano and	Faulques, Eric Sloan, Jeremy Ivanov, Victor Genchev Cordier, Stéphane	Encapsulation of red-light-emitting phosphors in single-walled carbon nanotubes – from experiments to models	Oral



	2D materials (FLNM)	Molard, Yann Costuas, Karine Duvail, Jean-Luc Massuyeau, Florian Kalashnyk, Nataliya		
569	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Hantehzadeh, Mohammad Reza; Moniri, Samira	Colloidal Synthesis of Nano MoS <sub>2</sub> by Nanosecond Laser Ablation of a Bulk MoS <sub>2</sub> 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, Nano and 2D materials (FLNM)	Paulenová, Daša; Marták, Ján; Schlosser, Štefan	Preparation and physico-chemical properties of suspensions of graphene oxide in solvent with ionic liquid	Oral
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
576	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Lee Jr., Mark Wayne; Wang, Teng-Wei; Madugula, Dronareddy; Clark, Madison	Pseudo-spherical Organic-inorganic Hybrid Nanomolecular Clusters Exhibiting Redox-controlled Fluorescence Switching and Electrochromism	Oral
577	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Widawer, Bradley Harris; Tischler, Yaakov	Real-time Raman spectroscopy of laser-ablated PDMS stamps	Poster
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 2D materials (FLNM)	Petrov, Victor A.	Fano resonances at interference of electron waves in geometrically inhomogeneous semiconductor 2D nanostructures	Poster
581	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zatsepin, Anatoly Kuznetsova, Yulia Zatsepin, Dmitry Gavrilov, Nikolay	Planar photonic structures based on Gd-implanted silica glasses and films	Poster
582	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Almaqwashi, Ali Fouda, Aly (1,2); Duraia, El Shazly	Synthesis of nitrogen doped graphene/carbon nanotubes nanocomposite using urea and humic acid	Oral
583	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Shirazi, Shaahin	Source and Drain Under/Overlap with the Gate in 1D GAA MOSFETs and TFETs: a Better Performance	Poster
584	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Tan, Dan (1,2); Willatzen, Morten (1,2)	Flexoelectric effect of low-dimensional graphene nanosheets	Oral
585	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Amirav, Lilac	Sculpting Photocatalysts on the Nano Scale	Oral



586	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Amirav, Lilac	Sculpting Photocatalysts on the Nano Scale	Oral
587	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhengissova, Yerkezhan	Ferrofluid for transformers: is obtained by modification of mineral oil with magnetite nanoparticles Fe <sub>3</sub> O <sub>4</sub>	Oral
588	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	HE, JUN	Two-Dimensional Metal Chalcogenide Semiconductors: Design, Synthesis and Applications	Oral
589	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Song, Yanlin	Green Printing Technology for Manufacturing Functional Devices	Invited
590	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	LOPEZ MEDINA, JAVIER ALONSO ORTIZ ATONDO, AXEL AGUSTIN Muñoz Muñoz, Franklin David Tiznado Vazquez, Hugo Jesus	ZnO Ultra-Thin Films Growth on Magneto-Controllable Core-Shell Nanoparticles Encapsulated With a Removable SiO <sub>2</sub> Template	Poster
591	Symposium 5: Functional Low	LIU, Yunqi	Controlled preparation of graphene and its electronic properties	Invited



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



	Nano and 2D materials (FLNM)	Ouyang, Xiaoping (2,3,1); Wang, Huakang	performance for LaBr <sub>3</sub> crystals	
598	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Samulionis, Vytautas Banys, Juras Vysochanskii, Yulian	Two-dimensional CuInP <sub>2</sub> S <sub>6</sub> 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 Ions 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(Tl) crystal under X-ray excitation	Poster





603	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Li, Yang Zhang, Zhiqiang Song, Yu	An Electrochemical Sensor Modified with Renewable Copper Nano-Clusters for Continuous Nitrate Determination	Oral
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)TiO <sub>3</sub> 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 MoTe <sub>2</sub> 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 2D materials (FLNM)	Friedli, Andrienne C. Ali, Muhammad O. Jakubowski, Rafal M. Lukasik, Beata D. Pecyna, Jacek G. Pochiecha, Damian Kaszynski, Piotr (1,2,4)	High dielectric anisotropy fluid materials derived from boron clusters	Poster
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 WSe <sub>2</sub> 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 TiO <sub>2</sub> 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 MoSe <sub>2</sub>	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
615	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zeng, Jian	Graphene electrical properties modulated by swift heavy ion irradiation	Oral
616	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Li, Dejun; Dong, Lei	Influence of temperature rise rates on the interfacial structure and mechanical stability of TiB <sub>2</sub> /BN superlattice coatings	Poster
617	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Kulkarni, Milind Vyankatesh	Successful Journey of Conducting Polyaniline from Non Soluble and Non Process able Powder to Process able, Aqueous, Ink-jet Printable Ink for Flexible Electronics Applications	Invited
618	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Xu, Weinan Paidi, Santosh Qin, Zhao Huang, Qi Yu, Chi-Hua Pagaduan, Jayson Buehler, Markus Barman, Ishan Gracias, David	Self-folding hybrid graphene skin for 3D biosensing	Oral
619	Symposium 5: Functional Low dimensional,	Shah, Wiqar Hussain	Designing and Fabrication of efficient nano-materials for thermoelectric generator	Oral



	Nano and 2D materials (FLNM)			
620	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Wang, Bin (1,2); Ruoff, Rodney S. (2,3)	Fracture Strengths of Centimeter-Scale Monolayer Graphene Films	Poster
621	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhao, Yong Sheng	Organic Printed Microlaser Arrays	Oral
622	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	rostampour, elnaz	Quantum Chaos in the K@C20@C80 nano-onion billiard	Poster
623	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Mohamed, Hanan Ramadan Hamad	Genomic instability and mitochondrial DNA damage induction by Calcium hydroxide normal and nano-nanoparticles	Invited
624	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Liao, Lei	Negative Capacitance Field-Effect Transistors with Subthreshold Swing below the Physics Limit	Invited
625	Symposium 5: Functional Low dimensional, Nano and	WANG, Yeliang (1,2)	Epitaxial Growth and Properties of 2D Topological Antimonene and Heterostructures	Invited



	2D materials (FLNM)			
626	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Rasoolidanesh, Melahatsadat; Darvish Ganji, Masoud	Efficient performance of boron nitride nanotubes as chiral selector for separation of ibuprofen enantiomers using DFT-D3 calculations	Poster
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	Williams, Gary A.; Menachekanian, Emin; Iaia, Vito; Fan, Mingyu;	Superfluid Onset and Compressibility of 4He Films Adsorbed on Multiwall Carbon Nanotubes	Oral



	2D materials (FLNM)	Chen, Jingjing; Hu, Chaowei; Mittal, Ved; Liu, Gengming; Reyes, Raul; Wen, Fufang		
632	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Yao, Huijun	Selectively enhanced ion transport in graphene oxide membrane/PET conical nanopore system	Oral
633	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Yin; Zhao, Junming; Feng, Yijun	Manipulation of Terahertz Wave with Tunable Graphene Metamaterial Structures	Poster
634	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhou, Xiaojing Gao, Wenyu Heinig, Nina Kang, Jungsoo Zhang, Lei Thomas, Joseph Leung, Kam Tong	Control of the Size and Chemical Composition Selective Copper Nanocrystals on Highly Conductive Graphene Sheet Electrode	Oral
635	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Mengyu; Chen, Hao; Yin, Jinde; Zhang, Min; Wang, Jinzhang; Wang, Jintao; Ruan, Shuangchen; Yan, Peiguang	Two-dimensional layered materials based van der Waals heterostructures and their applications for broadband optical modulators	Oral
636	Symposium 5: Functional Low dimensional, Nano and	Reddy, Leelakrishna; Nkosi, Thabang; Avula, Balakrishna	Violet-blue-shift of spectrum and enhanced luminescent properties of Ca <sub>3</sub> (PO <sub>4</sub> ) <sub>2</sub> :Ce <sup>3+</sup> phosphor induced by	Poster



	2D materials (FLNM)		small amount of Gd <sup>3+</sup> incorporation	
637	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	T V, Beatriceveena (1,2); E, Prabhu K I, Gnanasekar	Selective sensing behaviour of 1D beta-Ag <sub>2</sub> MoO <sub>4</sub> nanorods towards ammonia	Poster
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	Sarkar, Abdus Salam; Mushtaq, Aamir; Pal, Suman Kalyan	Exciton and phonon dynamics in two-dimensional tin(II) monosulfide	Oral



	2D materials (FLNM)			
643	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Ahmad, Kaleem Wan, Chunlei	Thermoelectric properties of Lead Telluride (PbTe) based single wall carbon nanotube (SWCNT) composites	Oral
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	Ittara, Suresh Kattimuttathu	Amphiphilic comb polymer modified graphene surfactant for electrochemical sensing of dopamine and ascorbic acid.	Oral





	2D materials (FLNM)			
649	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Rybalchenko, Alexey V. Solovyeva, Vera A. Akhmetov, Vladimir A. (1,2); Lukonina, Natalia S. Amsharov, Konstantin Yu. Goryunkov, Alexey A.	Non-Planar Polyenes: a Circuit Boards with Tunable Electronic Properties	Oral
650	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	KUANR, BIJOY KUMAR	Magnetization dynamics in La <sub>1-x</sub> Sr <sub>x</sub> MnO <sub>3</sub> 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 oxidation	Poster



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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 Ti <sub>2</sub> NiCu Shape Memory Ribbons	Oral
655	Symposium 5: Functional Low dimensional, Nano and 2D materials (FLNM)	Zhang, Yong	The road toward miniaturization and integration of ionization sensors following advanced MEMS	Plenary