



AAAFM - UCLA 2019 Abstract Announcement

(List of Accepted Abstracts for SS06 - Functional Thin Films (FTF) for the AAAFM – UCLA 2019)

American Association for Advances in Functional Materials

Serial No:	Symposium	Authors	Title	Mode of Presentation
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 Sulphide[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,	Molecular Precursors for the Phase-Change Material Germanium-Antimony-Telluride, Ge ₂ Sb ₂ Te ₅ (GST)	Oral



		Mindaugas; Engelhardt, Felix; 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 Sulphide[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 NdNiO ₃ /NdMnO ₃ Multilayers	Oral
667	Symposium 6: Functional Thin Films (FTF)	Wang, Jingxia (1,2)	Superwettability of Colloidal Photonic Crystals	Oral
668	Symposium 6: Functional	NWOFE, PATRICK AKATA;	Morphological and optical properties of chemically deposited magnesium	Poster



	Thin Films (FTF)	ELE, Samuel Ugochukwu; EZEOKOYE, Chinenye; AGBO, PETER EKUMA	doped-antimony sulphide thin films for use in optoelectronic applications	
669	Symposium 6: Functional Thin Films (FTF)	S., HARISANKAR	Tuning non-Fermi liquid behavior by Oxygen variation and epitaxial strain in PrNiO _{3-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	Lei, Weiwei; Qin, Si;	Functional boron nitride membranes and their	Oral



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



691	Symposium 6: Functional Thin Films (FTF)	Zhai, Shengjie; Zhao, Yihong; Zhao, Hui	Programmable High-Efficiency Quasi-Random Nanostructures for Light Harvesting Devices	Oral
692	Symposium 6: Functional Thin Films (FTF)	Chen, Xiaoyang	Preparation and Characterization of CaZrO ₃ films prepared by RF sputtering technology	Oral
693	Symposium 6: Functional Thin Films (FTF)	Yu, Ping	Enhancement of breakdown strength of ferroelectric films by constructing an oxygen vacancies migration barrier	Poster
694	Symposium 6: Functional Thin Films (FTF)	Migita, Shinji; Ota, Hiroyuki	Appearance and Disappearance of Ferroelectric Phase in Crystalline HfO ₂ 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	PARK, Yong Tae KIM, Dongseob	Layer-by-Layer Assembled Graphene	Oral



	Thin Films (FTF)	CHOI, Kyungwho CHOI, Dukhyun	Multilayers: Applications for Flexible Energy Harvesting Generators	
700	Symposium 6: Functional Thin Films (FTF)	Ramanavicius, Simonas; Jagminas, Arunas	Titanium suboxides synthesis by direct oxidation method	Oral
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; Oliveira, 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)	HENRANDEZ 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 Al ₂ O ₃ – Y ₂ O ₃ 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	Non-quarter-wave dielectric mirror prepared by thermal atomic layer deposition	Poster



		Vázquez, Hugo Soto Herrera, Gerardo		
706	Symposium 6: Functional Thin Films (FTF)	Guan, Xinchun (1,2); Wen, Ming (1,2); Li, Hui (1,2); Ou, Jinping (1,2)	Study on compatibility between thick-film resistors and fluorophlogopite glass- ceramic substrate	Oral
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/TiO ₂ 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-Fe ₂ O ₃ 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	Gu, Shulin; Zhu, Shunming; Liu, Dongyang;	Low temperature Growth and Characterization of GaN Films via Local	Oral



	Thin Films (FTF)	Zhao, Weikang; Hao, Licai; Tang, Kun; Ye, Jiandong; Zheng, Youdou	Nitrogen Plasma Metalorganic Chemical Vapor Deposition	
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 Ta ₂ O ₅ 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 ullah, Saif Butt, Sajid	Pronounced impact of Te- enrichment on physical properties of ZnTe thin films for solar cell applications	Oral
724	Symposium 6: Functional Thin Films (FTF)	Shougaijam, Biraj Ngangbam, Chitrlekha Lenka, Trupti Ranjan	Investigation of Au Nanoparticle assisted TiO ₂ Nanowires for Solar Cell Applications	Oral
725	Symposium 6: Functional Thin Films (FTF)	Chauhan, Vishnu Kumar, Vikas Koratkar, Nikhil Kumar, Rajesh	Influence of 120 MeV Ti ⁹⁺ ion beam induced modification on structural, optical, and surface morphological properties of nanocrystalline ZnO thin films grown by Atomic Layer Deposition	Oral
726	Symposium 6: Functional Thin Films (FTF)	Annamalai, Jegan	Influence of pulse reverse current electroplating parameters of Ni - nano Al ₂ O ₃ composite coatings on AISI 304 stainless steel	Oral
727	Symposium 6: Functional Thin Films (FTF)	Zhao, Ke-Qing	Novel Pi-Electron Molecular Scaffolds for Mesophase Semiconductors	Oral
728	Symposium 6: Functional Thin Films (FTF)	Erdogan, Nursev Astarlioglu, Aziz Taner Ozbay, Salih Erden, Fuat Ece, Remzi Ecmel Ozdemir, Mehtap Aygün, Gulnur Ozyuzer, Lutfi	Transparent and Conductive ITO/Au/ITO Multilayer Thin Films with Enhanced EMI Shielding Properties	Oral
729	Symposium 6: Functional Thin Films (FTF)	Liu, Bo	Graphite phase carbon nitride based membrane for achiral/chiral separation	Oral



730	Symposium 6: Functional Thin Films (FTF)	Tao, Ping (1,2); Wang, Yiming cheng, Henry Cai, Hongling Zhang, Fengming Wu, Xiaoshan	Modulation of the Electronic Structure of Ge _{1-x} Sn _x alloy films by Strain and Composition	Poster
731	Symposium 6: Functional Thin Films (FTF)	Huang, Shisong (1,2); Qian, Bin Zhang, Zhe Ji, Qing Zhang, Fengming Wu, Xiaoshan	Transport properties in YBa _{1.85} Eu _{0.15} Cu ₃ O _{7-δ} / La _{0.67} Ca _{0.33} MnO ₃ superlattices grown on (001) SrTiO ₃ 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
733	Symposium 6: Functional Thin Films (FTF)	Cheng, Shao- Dong (1,2); Cheng, Sheng Lu, Lu Liu, Ming Mi, Shao-Bo	Structural investigation of (Pr _{0.5} Ba _{0.5} MnO ₃) _{0.8} :(Ce O ₂) _{0.2} nanocomposite films prepared on (001) (La,Sr)(Al,Ta)O ₃ 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 La ₂ NiMnO ₆ films	Oral
736	Symposium 6: Functional	Zhou, Zhen; Li, Jing-Feng	Thickness-dependent phase transition and piezoelectricity in lead-free	Oral



	Thin Films (FTF)		Bi _{0.5} Na _{0.5} TiO ₃ -BaTiO ₃ epitaxial films	
737	Symposium 6: Functional Thin Films (FTF)	Zhang, Wenxu; Zeng, Huizhong; Peng, Bin; Zhang, Wanli	The Inverse Rashba Edelstein Effect at the conducting SrTiO ₃ surface	Poster
738	Symposium 6: Functional Thin Films (FTF)	Chen, Zimin; Li, Zeqi; Wang, Gang	Heteroepitaxy of ε-Ga ₂ O ₃ thin films by metal organic chemical vapor deposition	Poster
739	Symposium 6: Functional Thin Films (FTF)	Chen, Xiaoyang; Yu, Ping	The effects of Ar/O ₂ ratio on the structure and properties of CaZrO ₃ /Ca _{0.15} Zr _{0.85} O _{1.85} 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 REBa ₂ Cu ₃ O _{7-δ} films growth by trifluoroacetate metal organic deposition method	Poster



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745	Symposium 6: Functional Thin Films (FTF)	Abouarab, Hanan Kassry, Amal El-Mahallawi, Iman Salah Eldin (1,2)	Optical Properties and Microstructure of Ti, TiNi and Al Thin Films before and after Oxidation	Oral
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