



AAAFM - UCLA 2019 Abstract Announcement

(List of Accepted Abstracts for SS03 - Functional Catalysis (FC) Accepted Abstracts for the AAAFM – UCLA 2019)

American Association for Advances in Functional Materials

Serial No:	Symposium	Authors	Title	Mode of Presentation
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@TiO ₂ 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-C ₃ N ₄ /I ₃ -BiOI for Highly Efficiently Photocatalytic CH ₃ SH 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



336	Symposium 3: Functional Catalysis (FC)	Lee, Ha-Young Zhang, Chunfei (1,2); Shin, Cheol- hwan Yu, Jong-Sung	Graphene-nickel interface- induced dipole layer catalytic mechanism on metal deposition and electrochemical energy 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 O ₂ 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 V ₂ O ₅ nanowires for solar light based photocatalytic decolourization of MB dye and Industrial wastewater	Oral



345	Symposium 3: Functional Catalysis (FC)	Paula, Fernando R; Padovani, Guilherme S; Gimenes, Tiago C	Photocatalytic efficiency of PVDF/TiO ₂ 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, Rezaq Naji	The contribution of surface defects on the local atomic structure and photocatalyst properties of Fe: CeO ₂ 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 Photocatalysts for Efficient CO ₂ Reduction	Oral
351	Symposium 3: Functional Catalysis (FC)	Ayyavu, Thirunarayanan; Soler, Monica; Gracia, Francisco	Nanoporous Metal Organic Frameworks for CO ₂ capture and Heterogeneous catalysis	Poster
352	Symposium 3: Functional Catalysis (FC)	Liu, Yangsi	Hydrothermal synthesis of WO ₃ nanostructures and their visible-light driven photocatalytic properties	Oral



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
354	Symposium 3: Functional Catalysis (FC)	Liu, Chunzhao	Efficient Cota Laccase Immobilization onMagnetic Graphene Oxide Sheets for Enhancing Biocatalysis	Oral
355	Symposium 3: Functional Catalysis (FC)	Guo, Chen	Laccase: large-scale 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
357	Symposium 3: Functional Catalysis (FC)	Qiu, Shujun	Poly(N-vinyl-2- pyrrolidone)-Stabilized Ruthenium Supported on Bamboo Leaf-Derived Porous Carbon for NH ₃ BH ₃ Hydrolysis	Poster
358	Symposium 3: Functional Catalysis (FC)	Singh, Satya Prakash	Diversity, expression and characteristics of extracellular proteases of Haloalkaliphilic bacteria from the Coastal Gujarat, 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
360	Symposium 3: Functional Catalysis (FC)	Duan, Chunying; Zhang, Tiexin	Supramolecular 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 splitting	
367	Symposium 3: Functional Catalysis (FC)	Song, Heyuan (1,2); Chen, Jing Jin, Fuxiang Li, Zhen	Novel polymeric acidic ionic liquids as catalysts for the preparation of polyoxymethylene dimethyl ethers	Poster
368	Symposium 3: Functional Catalysis (FC)	Yang, Qiaoqiao (1,2); Li, Zhen Wang, Fang Xia, Chungu	New functionalized ionic liquids derived from nitrogen-bearing heterocyclic compounds	Poster
369	Symposium 3: Functional Catalysis (FC)	Horng, Jao-Jia; Chuang, Hung-Yi	Efficiency and Mechanisms of Mesoporous Iron-Titanium oxides to generate hydroxyl radicals for degradation of Acid Orange 7 Dye	Oral
370	Symposium 3: Functional Catalysis (FC)	Sengottuvelan, Balasubramania n; Tamilselvan, Abiraman; Kannan, Rajavelu; Perumal, Rajakumar	Synthesis and characterization of sub 1 nm poly(acrylic acid) capped copper nanoparticles using high intensity (30 KHz) ultrasound sonication and their catalytic study	Oral
371	Symposium 3: Functional Catalysis (FC)	Kampouri, Stavroula Alina; Stylianou, Kyriakos C.	Concurrent Photocatalytic Hydrogen Generation and Dye Degradation Using MIL-125-NH ₂ under Visible Light Irradiation	Oral
372	Symposium 3: Functional Catalysis (FC)	Föhlisch, Alexander (1,2)	Tracing the active atomic sites in photochemistry with soft X-ray resonant inelastic X-ray scattering	Oral
373	Symposium 3: Functional Catalysis (FC)	Ghazzal, Mohamed-Nawfal; Wang, Cong; Remita, Hynd;	Photocatalyst designed in core-shell or three-dimensional nanostructure for enhanced photon-to-	Oral



		Colbeau-Justin, Christophe	conversion efficiency for Hydrogen production	
374	Symposium 3: Functional Catalysis (FC)	shuai, cao	Ultrathin Nanosheet Ni- MOF Assemblies for High- Efficiency Ascorbic Acid Electrocatalysis	Poster
375	Symposium 3: Functional Catalysis (FC)	De Lile, Jeffrey Roshan Son, Young-A Lee, Seung Geol	Density functional theory study on polaron formation of Anatase and Brookite TiO ₂ using hybrid functional and DFT+U methods	Poster
376	Symposium 3: Functional Catalysis (FC)	Heo, Gisu Manivannan, Ramalingam Kim, Hyorim Ryu, Ji Won Lee, Seung Geol Son, Young-A	Study on Visible Light Photo-Sensitized Metallo- Porphyrin/TiO ₂ and its Photocatalytic Activities	Poster
377	Symposium 3: Functional Catalysis (FC)	Xu, Lu; Bai, Xue; Jin, Pengkang	Facial fabrication of carbon quantum dots (CDs)-modified N-TiO ₂ -x nanocomposite for the efficient photoreduction of Cr(VI) under visible light	Oral
378	Symposium 3: Functional Catalysis (FC)	Wang, Jiaqiang; Yang, Yepeng; Li, Yizhou; Jiang, Liang; Wang, Wei	Biotemplated Mesoporous Materials Based Photocatalysis for Water and Wastewater Treatment	Invited
379	Symposium 3: Functional Catalysis (FC)	Yuan, Ching Hung, Chung- Hsuang	Application of N/S doping Graphene/TiO ₂ on degradation of Sulfamethoxazole under visible irradiation	Poster
380	Symposium 3: Functional Catalysis (FC)	Yao, Ke-Fu; Chen, Shuang- Qin; Jia, Ji-Li; Tang, Yao; Shao, Yang; Chen, Na	Fe-based amorphous/nanocrystalline alloys with high efficiency in degradation of oze-dye containing wastewater	Oral



381	Symposium 3: Functional Catalysis (FC)	Said, Mansur	Molecular Dynamic Studies on the evolution of [Al] ₈ [Cu] ₄ [Fe]] ₁ , [Al] ₂₇ [Cu]] ₁₀ [Fe] ₅ and [Al]] ₃₄ [Cu] ₁₄ [Fe] ₇ Icosahedral Quasicrystal using DFT	Rejected
382	Symposium 3: Functional Catalysis (FC)	Dumore, Nilesh S.; Mukhopadhyay, Mausumi	Aqueous Selenium Nanoparticles (ASeNPs) as Antioxidant catalyst	Oral
383	Symposium 3: Functional Catalysis (FC)	Begum, Ameemunisha	Replacing Platinum with a Better Performance For HER by the Metal of Wilkinson's Choice	Invited
384	Symposium 3: Functional Catalysis (FC)	M Heravi, Majid Mohammadi, Leyla Malmir, Masoumeh Sadjadi, Samahe	Palladate Magnetic Carbon Quantum Dot Immobilized on the Hybrid of Cyclodextrin Nanosponges and Bell- pepper Derived Biochar: A versatile Catalyst for Promoting Hydrogenation Reaction	Poster
385	Symposium 3: Functional Catalysis (FC)	Chang, Jen-Ray Chen, Chun-Hao Hsieh, Chu-Chin	Research of the Pollution Control Technology of the Particulate Matter for Diesel Vehicle	Oral