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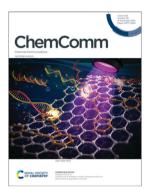
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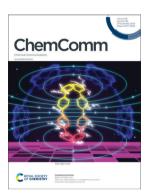
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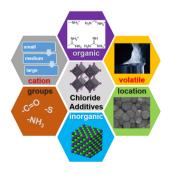


HIGHLIGHT

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Advances in chloride additives for high-efficiency perovskite solar cells: multiple points of view

Xue Liu, Yanru Guo, Yu Cheng, Shirong Lu, Ru Li* and Jiangzhao Chen*



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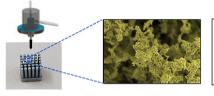


FEATURE ARTICLES

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Surface functionalized 3D printed metal structures as next generation recyclable SERS substrates

Uzma Malik, Roxanne Hubesch, Paramita Kolev, Maciei Mazur, Sunil Mehla, Sai Kishore Butti, Milan Brandt, P. R. Selvakannan* and Suresh Bhargava*





Selective Laser Melting

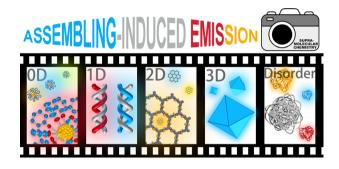
Plasmonic Metal/Semiconductor functional layer

Recyclable SERS substrate

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A supramolecular assembly strategy towards organic luminescent materials

Chenjia Yin, Zi-Ang Yan and Xiang Ma*

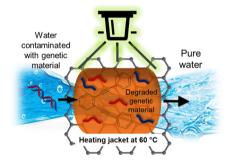


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Synthesis of an enediyne carbon-allotrope surface for photo-thermal degradation of DNA

Santosh K. Misra, Mao Ye, Parikshit Moitra, Ketan Dighe, Abhinav Sharma, Enrique A. Daza, Aaron S. Schwartz-Duval, Fatemeh Ostadhossein and Dipanjan Pan*



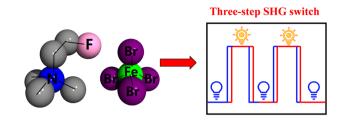
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Electronic delocalization in charged macrocycles is associated with global aromaticity

David Bradley, Bethany K. Hillier and Martin D. Peeks*



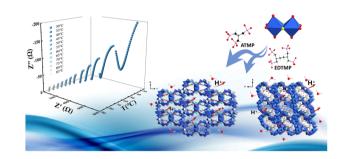
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An organic-inorganic hybrid material [Me₃NCH₂CH₂F]FeBr₄ exhibits three-step SHG on/off

Haina Zhang, Lingyu Wang, Wenjing Guo, Hu Cai* and Zhenhong Wei*

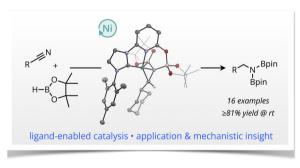
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The assembly of [Mo₂O₂S₂]²⁺ based on polydentate phosphonate templates and their proton conductivity

Bo Li, Yu-Xi Meng, Qian-Qian Liu, Xin-Yu Chen, Xin Liu and Hong-Ying Zang*

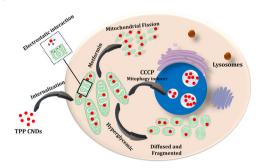
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Secondary-sphere preorganization enables nickel-catalyzed nitrile hydroboration

Medina Afandiyeva, Xijue Wu, William W. Brennessel, Abhishek A. Kadam and C. Rose Kennedy*

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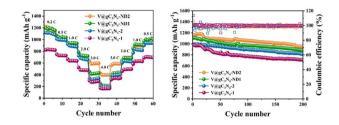
Tracking the super resolved structure of mitochondria using red emissive carbon nanodots as a fluorescent biomarker

Richa Garg, Farhan Anjum, Abdul Salam, Kush Kaushik, Shagun Sharma, Udisha Sahrawat, Aditya Yadav and Chayan Kanti Nandi*

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Vanadium-doped graphitic carbon nitride for high performance lithium-sulfur batteries

Yankang Wang, Yanbo Wang, Chunhong Huang, Qiang Zhang, Zhanghaoran Liu and Fengxiang Zhang*



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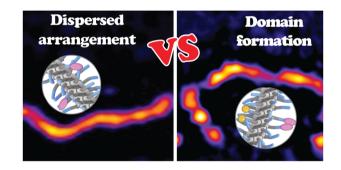
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Yongbo Tan and Huawen Huang*

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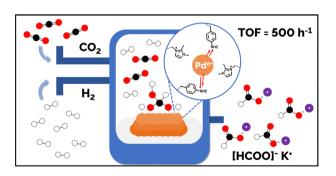
Job N. S. Hanssen and Shikha Dhiman*



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Amine-modified polyionic liquid supports enhance the efficacy of PdNPs for the catalytic hydrogenation of CO₂ to formate

Reece Paterson, Luke E. Fahy, Elisabetta Arca,* Casey Dixon, Corinne Y. Wills, Han Yan, Anthony Griffiths, Sean M. Collins, Kejun Wu, Richard A. Bourne, Thomas W. Chamberlain,* Julian G. Knight and Simon Doherty*



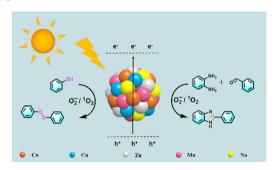
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High-efficiency NP-carbon dots above 60% with both delayed fluorescence and room-temperature phosphorescence

Bin Xu, Qun Hao, Xin Tang and Menglu Chen*

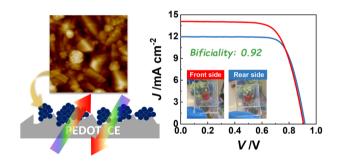
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High-entropy oxides as photocatalysts for organic conversion

Mingjin Li, Shuxing Mei, Yong Zheng,* Long Wang* and Ligun Ye*

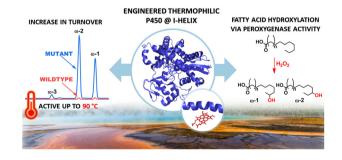
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Transparent PEDOT counter electrodes for bifacial dye-sensitized solar cells using a cobalt complex mediator

Yiming Li, Jing Wang, Hao Wang, Zhichao Di, Mingyan Liu, Xueping Zong, Chunsheng Li, Yan Sun, Mao Liang and Zhe Sun*

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Efficient biocatalytic C-H bond oxidation: an engineered heme-thiolate peroxygenase from a thermostable cytochrome P450

Alecia R. Gee, Isobella S. J. Stone, Tegan P. Stockdale, Tara L. Pukala, James J. De Voss and Stephen G. Bell*

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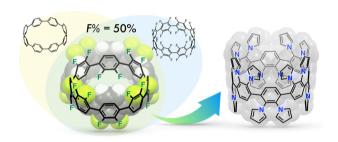
Supramolecular intermediates in thermo-mechanochemical direct amidations

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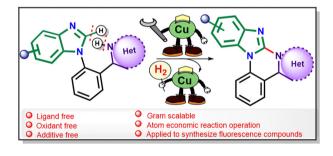
Hiroki Shudo, Motonobu Kuwayama, Yasutomo Segawa, Akiko Yagi and Kenichiro Itami*



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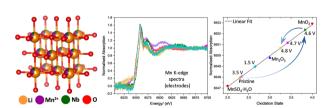
Sakshi Singh and Shantanu Pal*



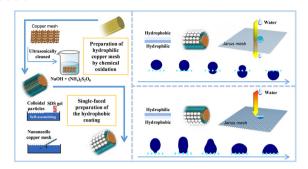
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Synthesis of Li_{1.20}Mn_{0.43}²⁺Nb_{0.39}O₂ disordered rocksalt under reducing conditions for Li-ion batteries

Wilgner Lima da Silva, Ashok S. Menon, Martin R. Lees, Reza J. Kashtiban, Marc Walker, Louis F. J. Piper, Emma Kendrick* and Richard I. Walton*



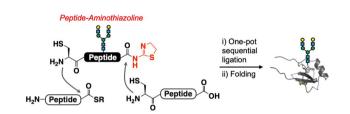
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Preparation of a Janus copper mesh via nanoparticle interface self-assembly for unidirectional water transportation

Chaolang Chen, Linfeng Zhu, Ruisong Jiang* and Xuan Li*

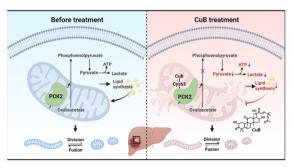
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Convergent synthesis of proteins using peptide-aminothiazoline

Ryo Okamoto,* Hiroyuki Shibata, Takahiro Yatsuzuka, Takuya Hanao, Yuta Maki, Kazuya Kabayama, Ayane Miura, Koichi Fukase and Yasuhiro Kajihara*

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Allosteric regulation of the lid domain of PCK2 as a novel strategy for modulating mitochondrial dvnamics

Yang Liu, Ling Li, Zhuo Yang, Li-xi Liao, Xiao-jun Yao, Peng-fei Tu and Ke-wu Zeng*

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Pd(II)-Catalyzed atroposelective C-H olefination: synthesis of enantioenriched N-aryl peptoid atropisomers

Tian-Yu Jiang, Yi-Ting Ke, Yong-Jie Wu, Qi-Jun Yao* and Bing-Feng Shi*