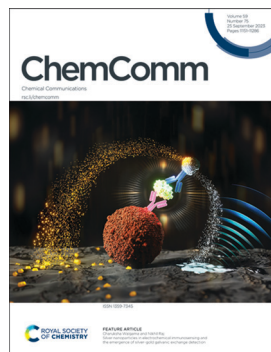


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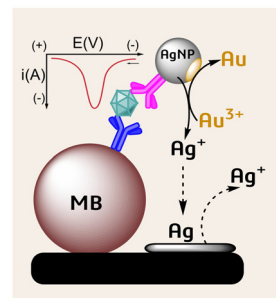
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FEATURE ARTICLES

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Silver nanoparticles in electrochemical immunosensing and the emergence of silver–gold galvanic exchange detection

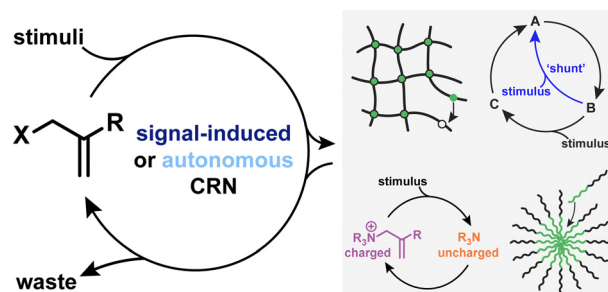
Charuksha Walgama* and Nikhil Raj



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Chemical reaction networks based on conjugate additions on β' -substituted Michael acceptors

Benjamin Spitzbarth and Rienk Eelkema*



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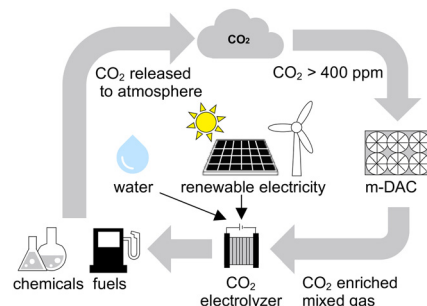


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Direct electrochemical CO₂ conversion using oxygen-mixed gas on a Cu network cathode and tailored anode

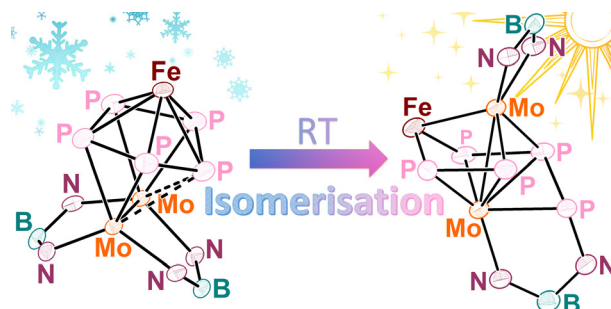
Akihiko Anzai, Manabu Higashi and Miho Yamauchi*



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Cyclo-E₅-bridged trinuclear triple-decker complexes (E = P, As) containing a triply-bonded Mo₂ unit and their isomerisation

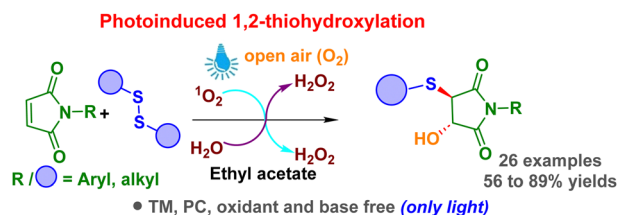
Meng-Wei Lee, Gábor Balázs, Stephan Reichl, Lisa Zimmermann, Manfred Scheer* and Yi-Chou Tsai*



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Photo-induced 1,2-thiohydroxylation of maleimide involving disulfide and singlet oxygen

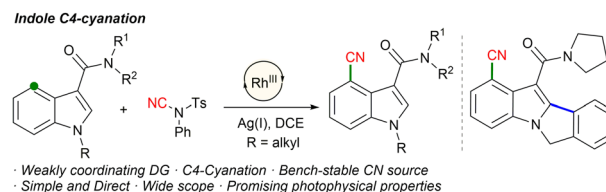
Tamanna Khandelia, Subhendu Ghosh, Pritishree Panigrahi, Raju Mandal, Deepjyoti Boruah and Bhisma K. Patel*



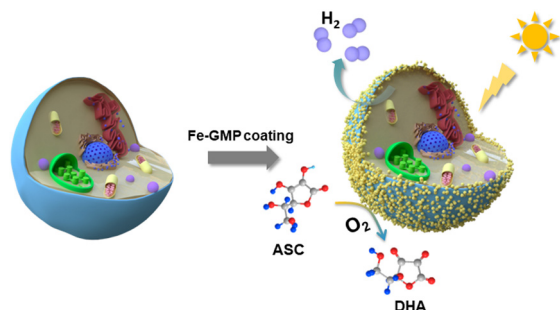
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Weakly coordinating *tert*-amide assisted Rh(III)-catalyzed C4-cyanation of indoles: application in photophysical studies

Souradip Sarkar, Aniruddha Biswas, Sarbojit Das, Bortika Sanyal, Rajkumar Sahoo and Rajarshi Samanta*



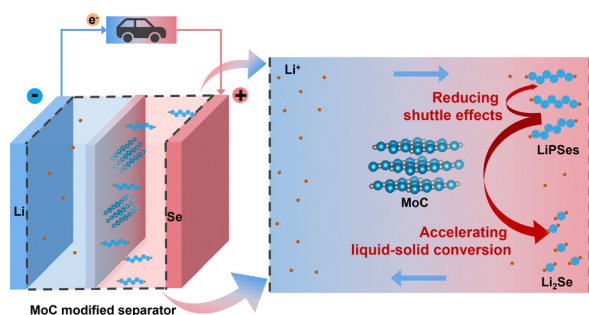
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Catalytic metal-nucleotide coordinative cytoskeleton on algae cell towards photosynthetic hydrogen production under air

Zhijun Xu, Ruifang Wang, Baoyuan Li, Chunyu Zhao, Xiaoman Liu* and Xin Huang*

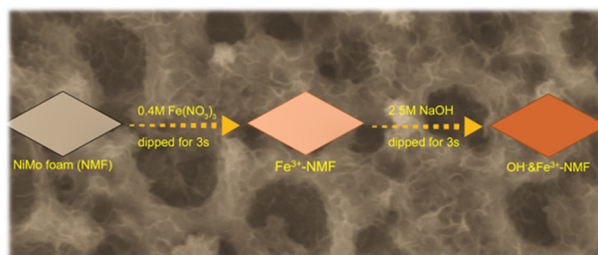
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Steering the liquid–solid redox conversion of lithium–selenium batteries through ultrafine MoC catalyst

Xin Ma, Cheng Yuan, Genlin Liu, Lei Wang, Tianran Yan, Pan Zeng and Liang Zhang*

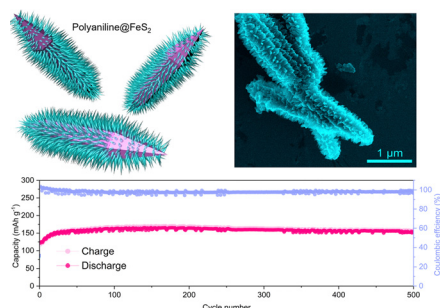
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Unlocking the potential of a NiMo foam substrate for water splitting using an ultrafast two-step dipping strategy

Min Xue, Lihua Gao, Haoxuan Wang, Yanling Guo, Xiao-Lei Huo,* Zhongqin Pan* and Qingwen Zhou*

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A nanowire-on-microrod polyaniline@FeS₂ hybrid as the cathode in high-performance Al-ion batteries

Haiyuan Bai, Jing Xu, Jinyun Liu, Tianli Han* and Junjie Niu*

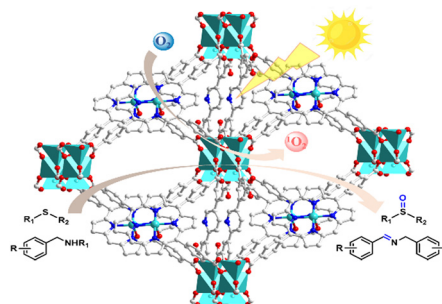


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Mixed-ligand metal–organic frameworks as an effective photocatalyst for selective oxidation reaction

Hanning Li, Yang Yang, Xu Jing,* Cheng He and Chunying Duan*



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An amorphous Lewis-acidic zirconium chlorofluoride as HF shuttle: C–F bond activation and formation

Christian Heinekamp, Ana Guilherme Buzanich, Mike Ahrens, Thomas Braun* and Franziska Emmerling*



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Catalyst-free depolymerization of polycaprolactone to silylated monoesters and iodide derivatives using iodosilanes

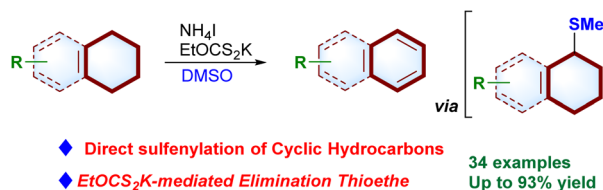
Xin Liu, Marie Kobylarski, Jean-Claude Berthet* and Thibault Cantat*



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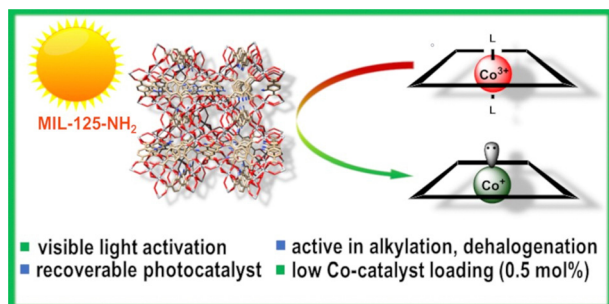
Aromatization of cyclic hydrocarbons via thioether elimination reaction

Yang Liu, Yingqi Feng, Jinli Nie, Sijie Xie, Xin Pen, Huanliang Hong, Xiuwen Chen, Lu Chen and Yibiao Li*



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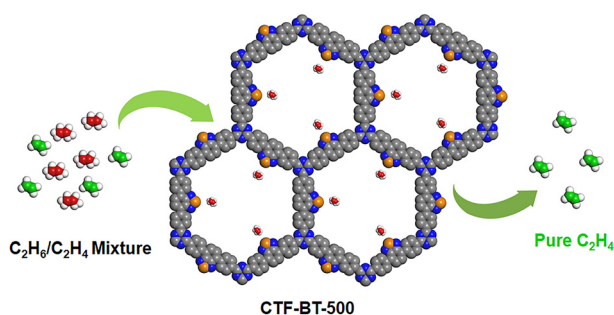
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Vitamin B₁₂ and a metal–organic framework enable the photocatalytic generation of alkyl radicals

Krzysztof R. Dworakowski, Artur Chołuj,
Michał J. Chmielewski* and Dorota Gryko*

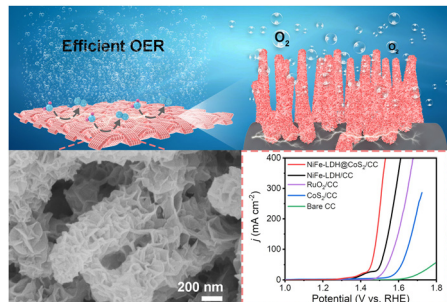
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Thiazole functionalized covalent triazine frameworks for C₂H₆/C₂H₄ separation with remarkable ethane uptake

Junhua Wang, Xin Lian, Zhiyuan Zhang, Xiongli Liu,
Qiao Zhao, Jian Xu, Xichuan Cao,* Baiyan Li* and
Xian-He Bu

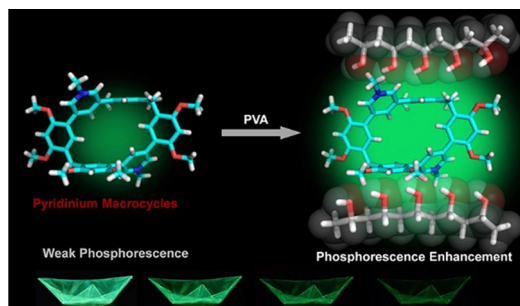
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Hierarchical CoS₂@NiFe-LDH as an efficient electrocatalyst for alkaline seawater oxidation

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Phosphorescence enhancement of pyridinium macrocycles by poly(vinylalcohol)

Zhi-Yuan Zhang, Chun-Yun Deng, Chen-Chen Shen,
Rong-Yao Xu, Xi-Zhen Wang, Yan-Hao Wang, Bo Ding,
Bin Li, Jian Li and Chunju Li*

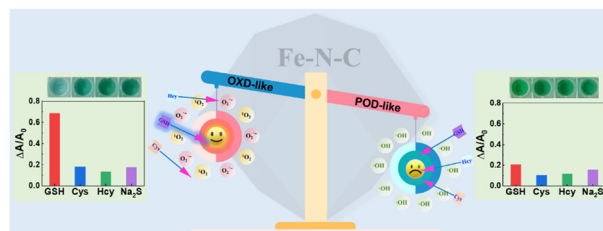


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Distinct dual enzyme-like activities of Fe–N–C single-atom nanozymes enable discriminative detection of cellular glutathione

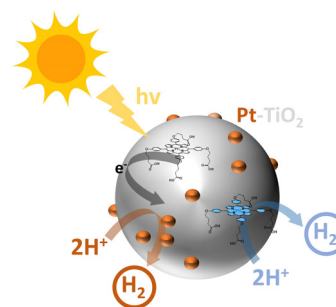
Chunqi Cai, Chengyang Zhu, Lingling Lv, Pengcheng Huang,* Junjie Mao,* Fang-Ying Wu and Ke-Yu Deng



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Highly efficient light-driven hydrogen evolution utilizing porphyrin-based nanoparticles

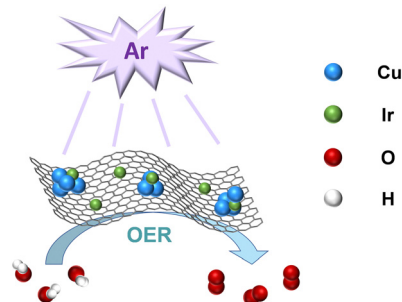
Vasilis Nikolaou, Eleni Agapaki, Emmanouil Nikoloudakis, Katerina Achilleos, Kalliopi Ladomenou, Georgios Charalambidis, Evitina Triantafyllou and Athanassios G. Coutsolelos*



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Preparation of Ir–Cu/C nanosheets for the oxygen evolution reaction by room temperature plasma carbonization

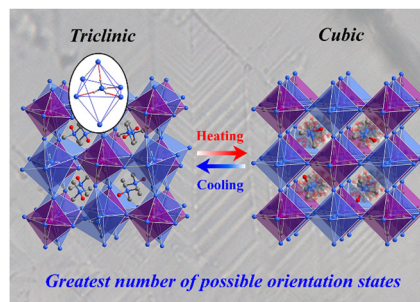
Wenxin Zhou, Pingni He, Andong Wu, Yanyan Wang, Yu Shuai, Tao Zhang, Shucheng Liu and Yi Liu*



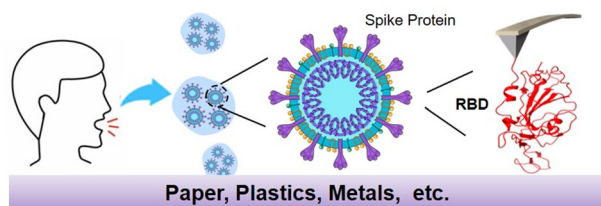
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A hybrid double perovskite ferroelastic exhibiting the highest number of orientation states

Wei-Jian Xu,* Pavel Zelenovskii, Alexander Tselev, Luis Verissimo, Konstantin Romanyuk, Wei Yuan, Wei-Xiong Zhang,* Andrei Kholkin* and João Rocha*



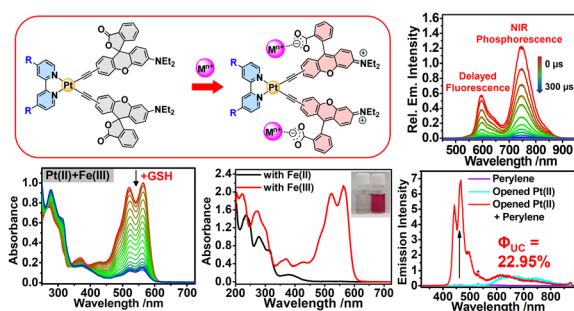
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Probing nanomechanical interactions of SARS-CoV-2 variants Omicron and XBB with common surfaces

Yuelong Xiao, Bin Zheng, Xuan Ding and Peng Zheng*

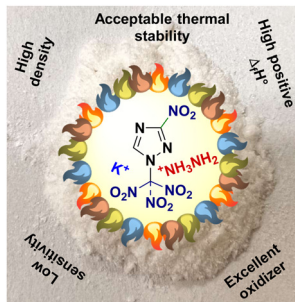
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Multifunctional bisalkynylplatinum(II) bipyridine complexes with rhodamine-like ligands featuring near-infrared phosphorescence and delayed fluorescence

Shunan Zhao, Jianfeng Song and Keith Man-Chung Wong*

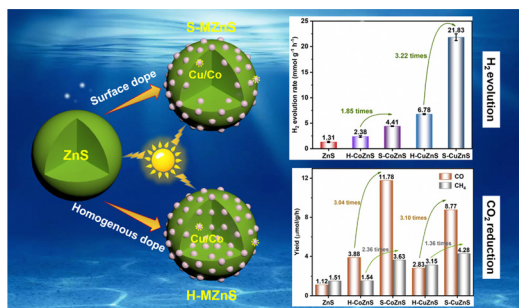
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Energetic performance of trinitromethyl nitrotriazole (TNMNT) and its energetic salts

Sohan Lal, Richard J. Staples and Jean'ne M. Shreeve*

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Modulating the doping state of transition metal ions in ZnS for enhanced photocatalytic activity

Linping Bao, Xiaohui Ren, Chengyin Liu, Xin Liu,* Chunhui Dai, Yong Yang, Mohamed Bououdina, Sajjad Ali* and Chao Zeng*

