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12368

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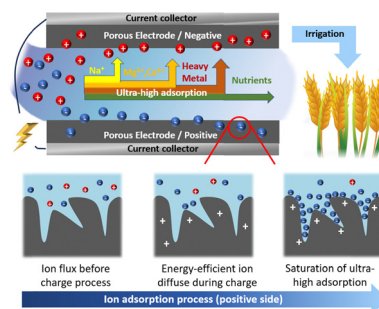


HIGHLIGHT

12376

Capacitive deionization system with ultra-high salt adsorption performance: from lab design to agricultural applications

Rui He, Yongchang Yu, Lingchen Kong, Xitong Liu* and Pei Dong*



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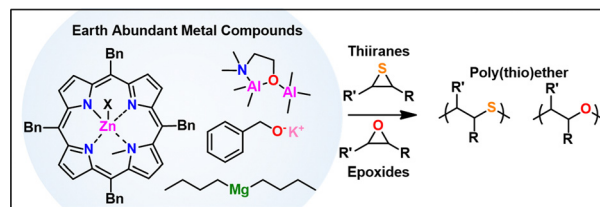


FEATURE ARTICLES

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A guide to modern methods for poly(thio)ether synthesis using Earth-abundant metals

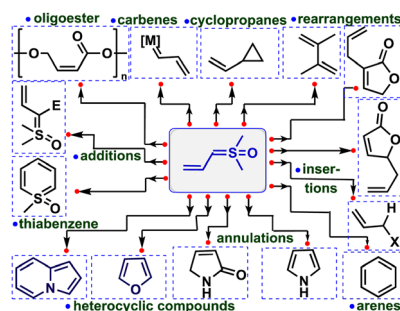
Robert C. Ferrier Jr.,* Gouree Kumbhar, Shaylynn Crum-Dacon and Nathaniel A. Lynd



12411

Insights into the multifaceted applications of vinyl sulfoxonium ylides

Raju Sen, Srashti Bhardwaj, Krishnendu Bar, Shalu Deshwal and Janakiram Vaitla*

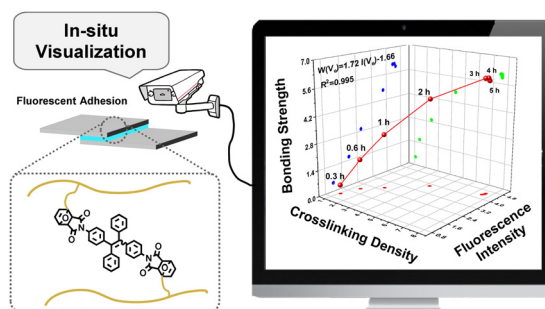


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Reversible fluorescent adhesives based on covalent adaptable networks with dynamic AIE crosslinking: *in situ* visualization of adhesion capability

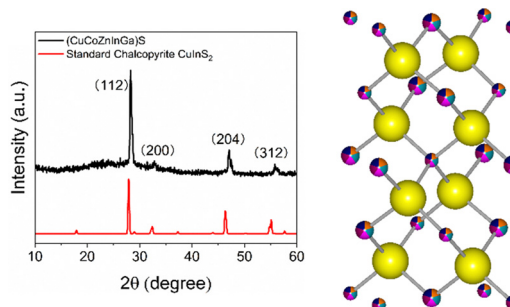
Yu Jiang,* Ziyu Ran, Yangfei Wu, Meng Zhang, Ying Ma and Daohong Zhang*



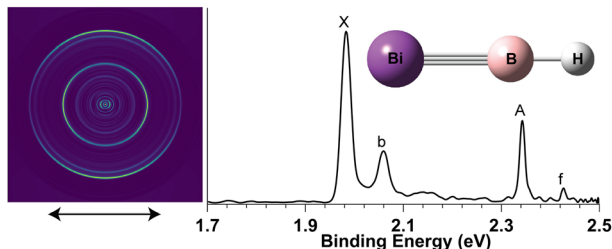
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Deposition of a high entropy thin film by aerosol-assisted chemical vapor deposition

Weichen Xiao, Mark A. Buckingham, Yi Li, Kerry Hazeldine, Bing Han, Sarah H. Cartmell, Alexander S. Eggeman, Alex S. Walton and David J. Lewis*



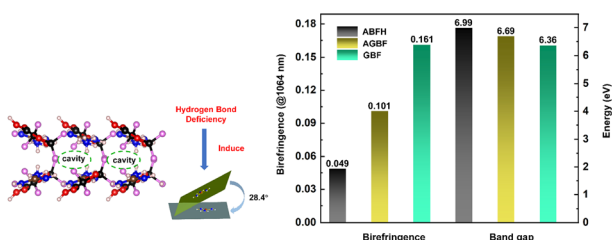
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Observation of an electron-precise metal boryne complex: $[\text{Bi}\equiv\text{BH}]^-$

Han-Wen Gao, Jie Hui and Lai-Sheng Wang*

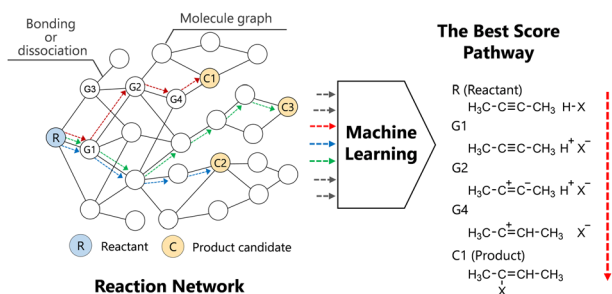
12435



Hydroxyfluorooxoborate $(\text{NH}_4)[\text{C}(\text{NH}_2)_3][\text{B}_3\text{O}_3\text{F}_4(\text{OH})]$ for exploring the effects of cation substitution on structure and optical properties

Ziqi Chen, Fuming Li, Zhihua Yang, Shilie Pan* and Miriding Mutailipu*

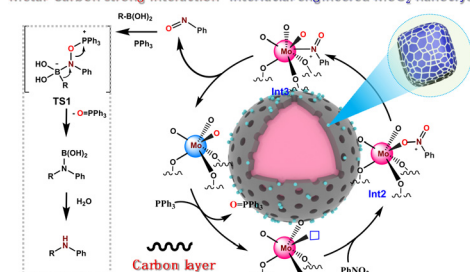
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Predicting and analyzing organic reaction pathways by combining machine learning and reaction network approaches

Tomonori Ida,* Honoka Kojima and Yuta Hori

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Metal-Carbon strong interaction† Interfacial engineered MoO_2 nanocrystals

Enhancing reductive C–N coupling of nitrocompounds through interfacial engineering of MoO_2 in thin carbon layers

Mengting Liu, Xuexue Dong, Xiu Zhong, Zhenxiao Wang, Juanjuan Gong, Heng Song, Chao Yu, Aihua Yuan, Fu Yang* and Edison Huixiang Ang*

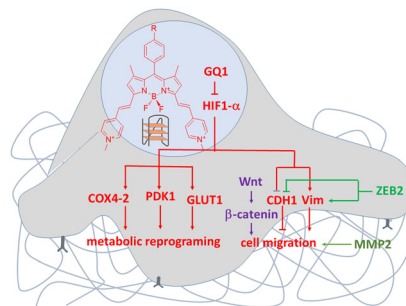


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Reprogramming cancer cells by a BODIPY G-quadruplex stabiliser

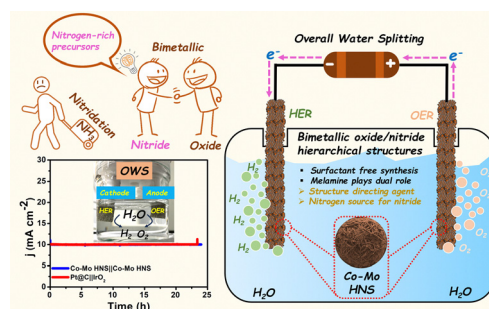
Aminesena Baser, Beyza Basar, Hanim Beyza Dogan, Gulnur Sener, Nezahat Gokce Ozsamur, Fatma Secer Celik, Safaa Altves and Sundus Erbas-Cakmak*



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Nitridation-free preparation of bimetallic oxide-nitride bifunctional electrocatalysts for overall water splitting

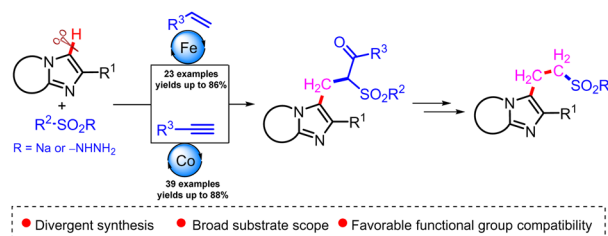
Sulakshana Shenoy, Chitiphon Chuaicham, Keiko Sasaki,* Sungkyun Park, Muthuchamy Nallal,* Kang Hyun Park* and Karthikeyan Sekar*



12455

Ketosulfonylmethylenation and sulfonylethylenation of imidazoheterocycles with dimethylformamide as a methylene source

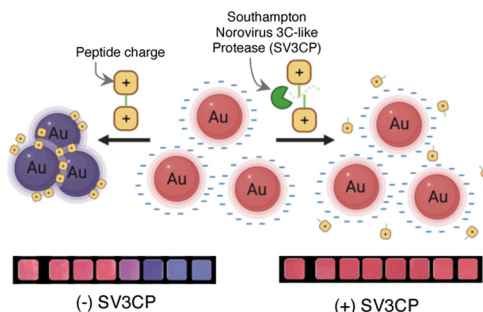
Tao Guo, Penghua Hu, Yu Liu, Panke Zhang,* Yunhui Zhao* and Congjun Zhu*



12459

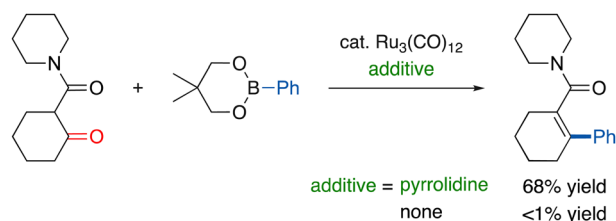
Valence-driven colorimetric detection of norovirus protease via peptide-AuNP interactions

Chuxuan Ling, Zhicheng Jin, Justin Yeung, Elany Barbosa da Silva, Yu-Ci Chang, Tengyu He, Wonjun Yim, Anthony J. O'Donoghue and Jesse V. Jokerst*



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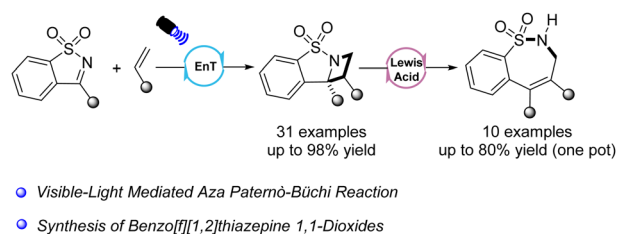
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Ruthenium-catalysed cross-coupling reaction of ketones with transformable directing groups as alkenyl electrophiles

Yuya Kogure, Kohei Hatakeyama, Kai Tsuchiya, Yuta Kunii and Satoshi Ueno*

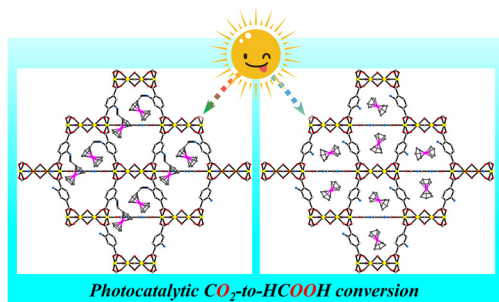
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Synthesis of benzo[*f*][1,2]thiazepine 1,1-dioxides based on the visible-light-mediated aza Paternò-Büchi reaction of benzo[*d*]isothiazole 1,1-dioxides with alkenes

Yi-Lin Wang, Peng-Xiang Liu, Huan-Huan Zhang, Peng-Fei Xu and Yong-Chun Luo*

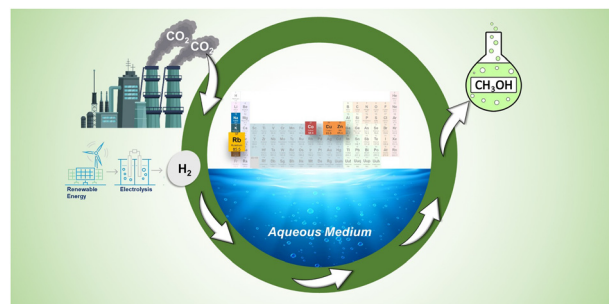
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A ferrocene-modified stable metal-organic framework for efficient CO_2 photoreduction reaction

Gui-Qi Lai, Ning Li, Jun He* and Ya-Qian Lan*

12475



Boosting the methanol selectivity in CO_2 hydrogenation over a MOF-derived CuZn@CN catalyst via Rb incorporation

Jyoti Gahtori, Jyotishman Kaishyop, Gaje Singh, Tuhin S. Khan, Flavio C. Vicentin, Tulio C.R. Rocha and Ankur Bordoloi*

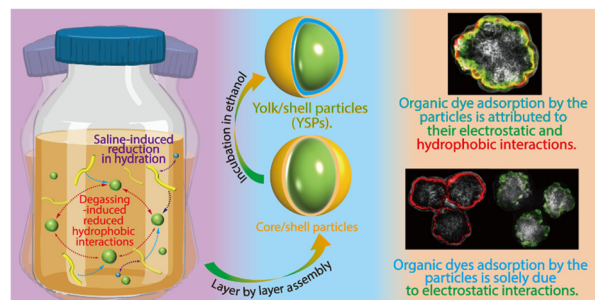


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Layer-by-layer assembly of polyelectrolytes on hydrophobic particles in aqueous milieu for efficient dye removal

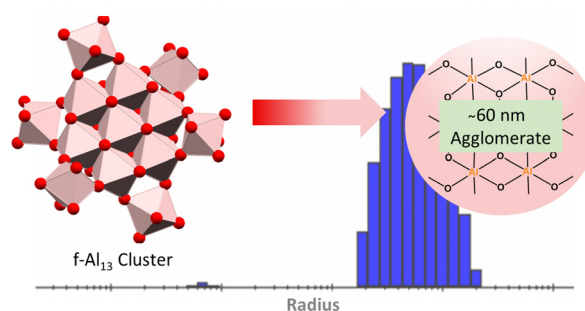
Bo Wang, Tengyue Fu, Chongling Cheng* and Dayang Wang*



12483

Observation of alumina nanoparticles generated from aqueous solutions of a "flat" aluminum-13 cluster

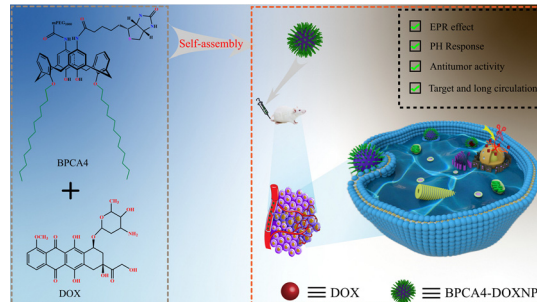
Alex Q. Rosen, Victor Salpino and Darren W. Johnson*



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Novel biotin-linked amphiphilic calix[4]arene-based supramolecular micelles as doxorubicin carriers for boosted anticancer activity

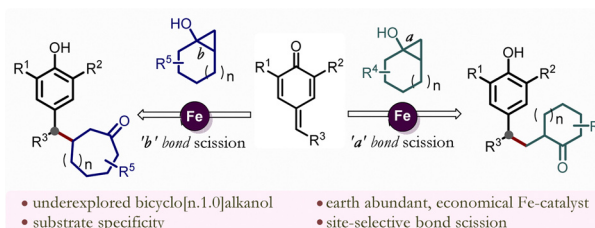
Dan Du, Yu-dun Liu, Jun-bing Lan, Xue-li Hou, Jia-dong Liu, Qing-hua Shi, Qing-wen Huang, Yun-sheng Xue, Chao-Guo Yan* and Lin An*



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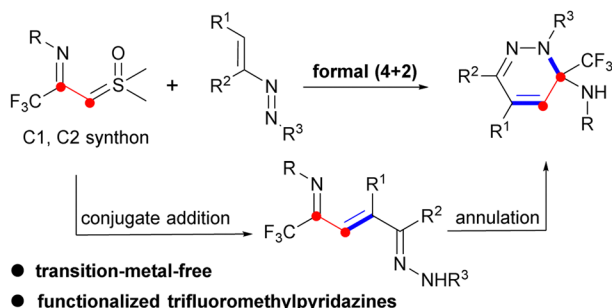
Site-selective ring opening of bicyclo[n.1.0]alkanols: an Fe(II)-catalyzed 1,6-conjugate addition to p-quinone methides

Neha Jha, Subhadip Mondal and Manmohan Kapur*



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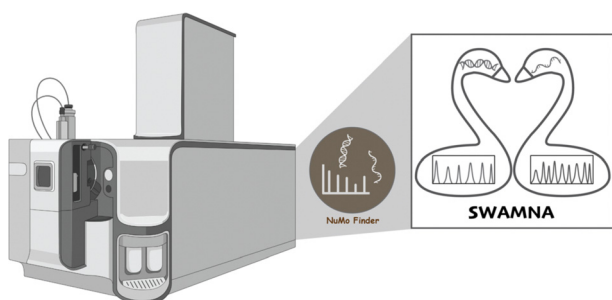
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Formal (4+2) cycloaddition of azoalkenes with trifluoromethylimidoyl sulfoxonium ylides: synthesis of trifluoromethyl pyridazine derivatives

Jie Wang, Shan-Shan Wang, Jun Xiao, Yu-Jie He, Xin-Yan Wu, Xingguang Li* and Pei-Nian Liu*

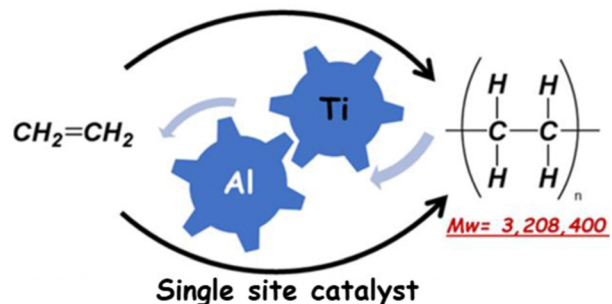
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SWAMNA: a comprehensive platform for analysis of nucleic acid modifications

Yixuan Xie, Francisca N. De Luna Vitorino, Ye Chen, Joanna K. Lempiäinen, Chenfeng Zhao, Robert T. Steinbock, Zongtao Lin, Xingyu Liu, Emily Zahn, Arabella L. Garcia, Matthew D. Weitzman and Benjamin A. Garcia*

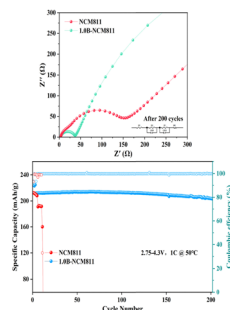
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A strategy for high ethylene polymerization performance using titanium single-site catalysts

Lujain Alrais, Walid Al Maksoud, Baraa Werghe, Anissa Bendjeriou-Sedjerari, Edy Abou-Hamad, Mohamed N. Hedhili and Jean-Marie Basset*

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Improving the cycling stability of LiNi_{0.8}Co_{0.1}Mn_{0.1}O₂ by boron doping to inhibit Li/Ni mixing

Ziru Hu, Donghong Duan, Haorui Wang, Shoudong Xu, Liang Chen and Ding Zhang*



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Significant cell uptake of Gd(III)-diphenylphosphoryl-diphenylphosphonium complexes: evidence for a new conformationally-dependent tumour cell targeting vector

Andrew J. Hall, Amy G. Robertson, Robert W. Baker, Leila R. Hill and Louis M. Rendina*

