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IN THIS ISSUE

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12368

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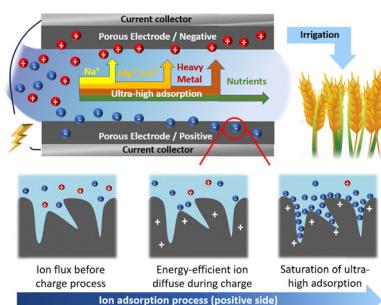


HIGHLIGHT

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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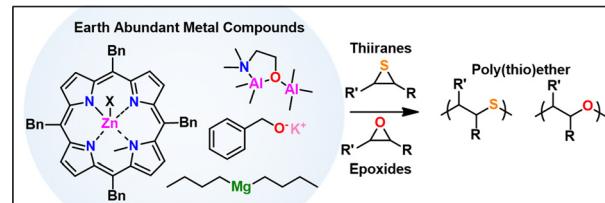
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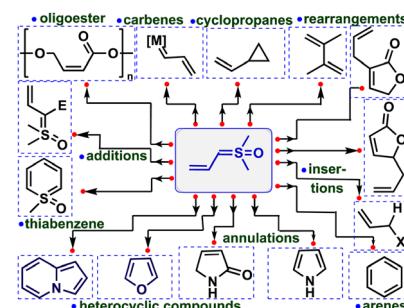
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12390

A guide to modern methods for poly(thio)ether synthesis using Earth-abundant metalsRobert C. Ferrier Jr,* Gouree Kumbhar,
Shaylynn Crum-Dacon and Nathaniel A. Lynd

12411

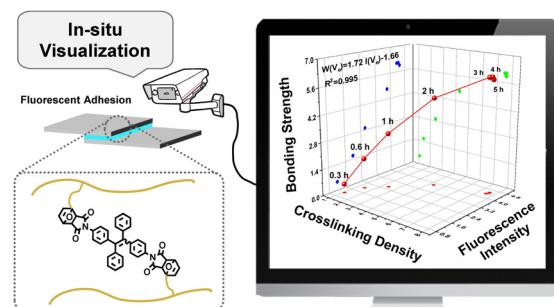
Insights into the multifaceted applications of vinyl sulfoxonium ylidesRaju Sen, Srashti Bhardwaj, Krishnendu Bar,
Shalu Deshwal and Janakiram Vaitla*

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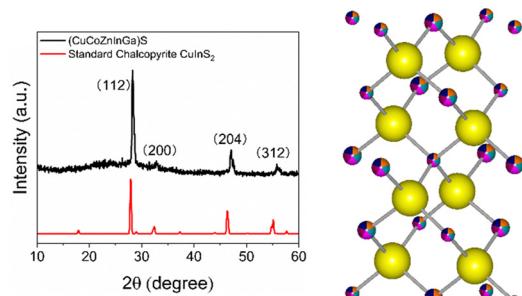
12423

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*

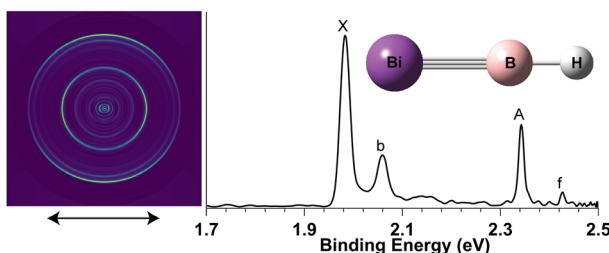


12427

Deposition of a high entropy thin film by aerosol-assisted chemical vapor depositionWeichen Xiao, Mark A. Buckingham, Yi Li,
Kerry Hazeldine, Bing Han, Sarah H. Cartmell,
Alexander S. Eggeman, Alex S. Walton and
David J. Lewis*

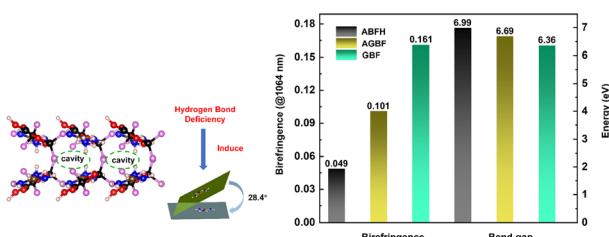
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12431

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

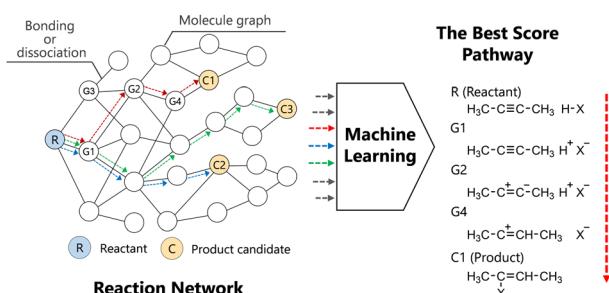
Han-Wen Gao, Jie Hui and Lai-Sheng Wang*

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*

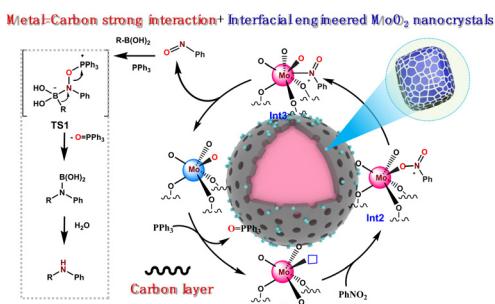
12439



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

Tomonori Ida,* Honoka Kojima and Yuta Hori

12443

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*

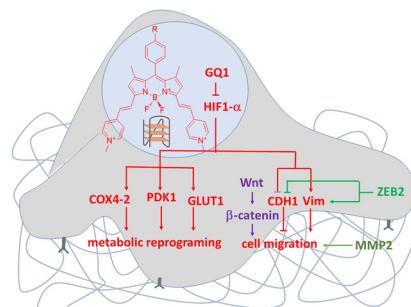


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Reprogramming cancer cells by a BODIPY G-quadruplex stabiliser

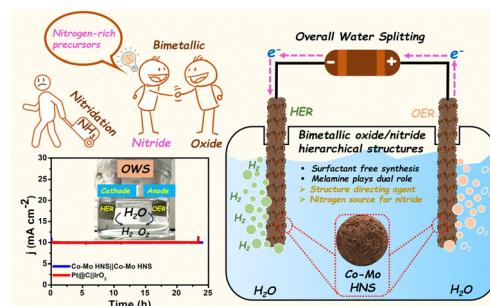
Aminesena Baser, Beyza Basar, Hanim Beyza Dogan, Gulnur Sener, Nezahat Gokce Ozsamer, Fatma Secer Celik, Safaa Altves and Sundus Erbas-Cakmak*



12451

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

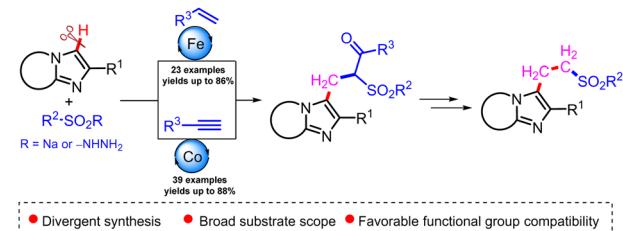
Sulakshana Shenoy, Chitiphon Chuaicham, Keiko Sasaki,* Sungkyun Park, Muthuchamy Nallat,* Kang Hyun Park* and Karthikeyan Sekar*



12455

Ketosulfonylmethylation and sulfonylethylenation of imidazoheterocycles with dimethylformamide as a methylene source

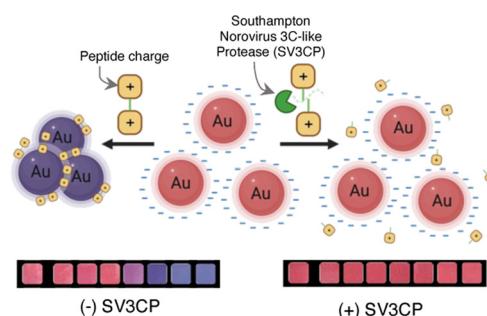
Tao Guo, Penghua Hu, Yu Liu, Panke Zhang,* Yunhui Zhao* and Congjun Zhu*



12459

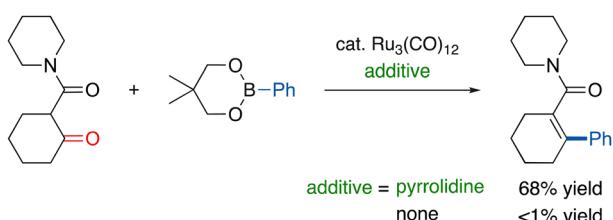
Valence-driven colorimetric detection of norovirus protease via peptide-AuNP interactions

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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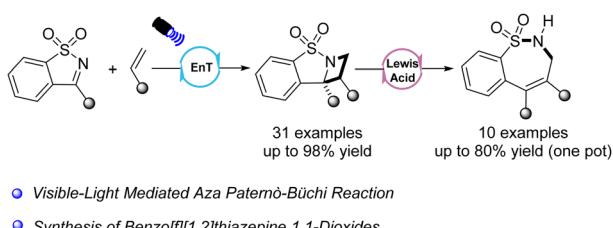
12463



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*

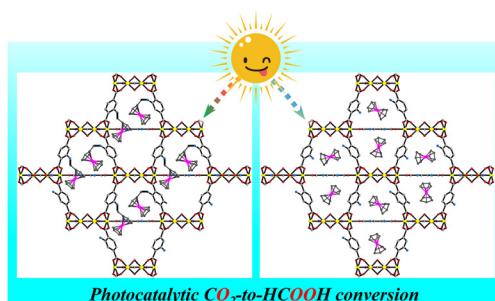
12467



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*

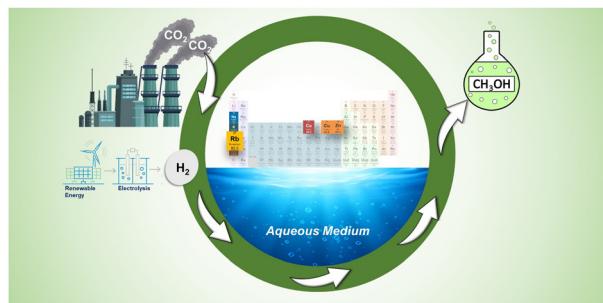
12471



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*

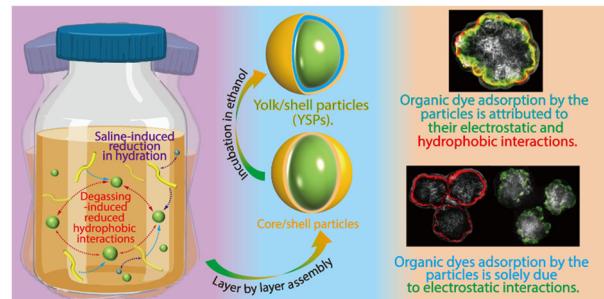


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12479

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

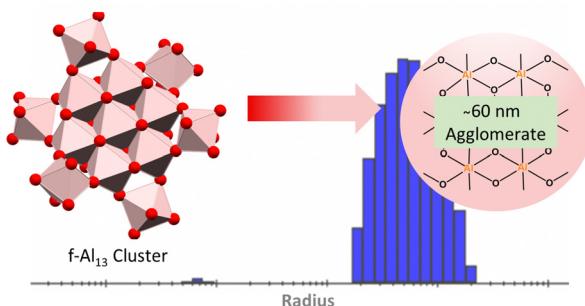
Bo Wang, Tengyue Fu, Chongling Cheng* and Dayang Wang*



12483

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

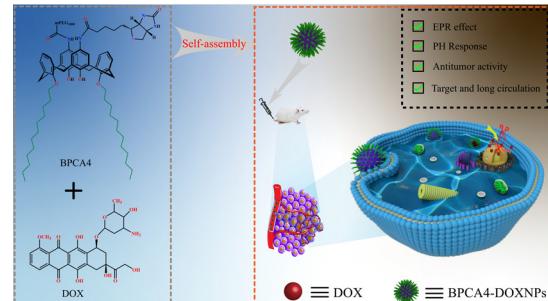
Alex Q. Rosen, Victor Salpino and Darren W. Johnson*



12487

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*



12491

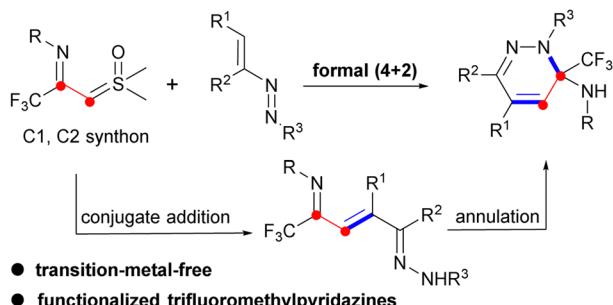
Site-selective ring opening of bicyclo[n.1.0]alkanols: an Fe(II)-catalyzed 1,6-conjugate addition to *p*-quinone methides

Neha Jha, Subhadip Mondal and Manmohan Kapur*



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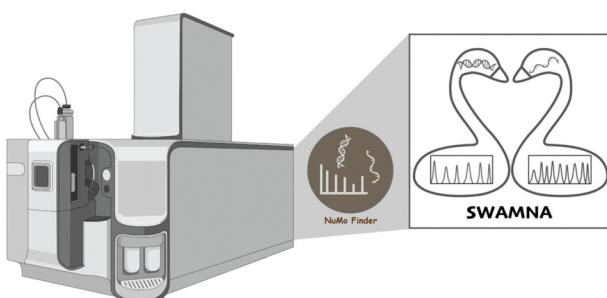
12495



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*

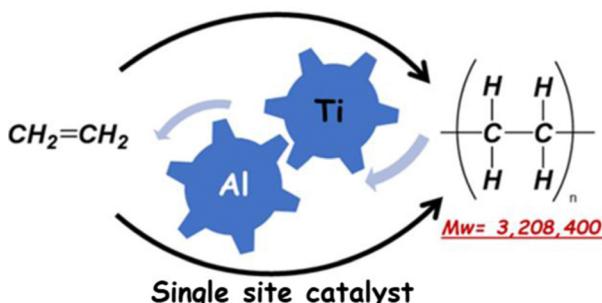
12499



SWAMNA: a comprehensive platform for analysis of nucleic acid modifications

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

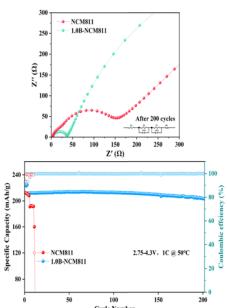
12503



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

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

12507



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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12511

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*

