

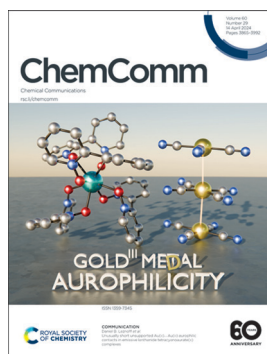
IN THIS ISSUE

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Cover

See Wing-Leung Wong, Huijuan Zhang, Chunya Li *et al.*, pp. 3910–3913. Image reproduced by permission of Wing-Leung Wong, Huijuan Zhang, Chunya Li *et al.* from *Chem. Commun.*, 2024, 60, 3910.



Inside cover

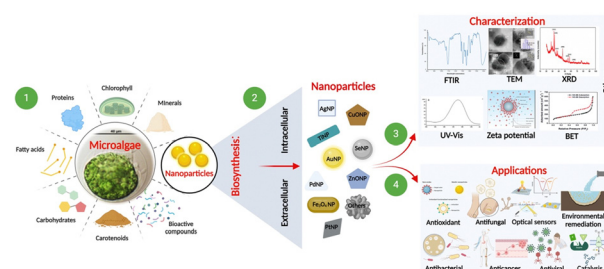
See Daniel B. Leznoff *et al.*, pp. 3914–3917. Image reproduced by permission of Thomas Karpiuk from *Chem. Commun.*, 2024, 60, 3914.

HIGHLIGHT

3874

Microalgae as a potential natural source for the green synthesis of nanoparticles

Ariana A. Arteaga-Castrejón, Vivechana Agarwal* and Sanghamitra Khandual*

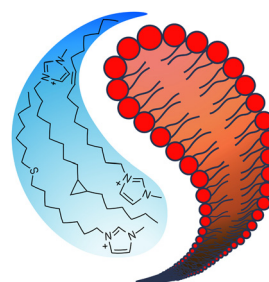


FEATURE ARTICLE

3891

Are nature's strategies the solutions to the rational design of low-melting, lipophilic ionic liquids?

John Yeboah, Zachary J. Metott, Christopher M. Butch, Patrick C. Hillesheim* and Arsalan Mirjafari*



Lipid-Like Ionic Liquids



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Fundamental questions
Elemental answers

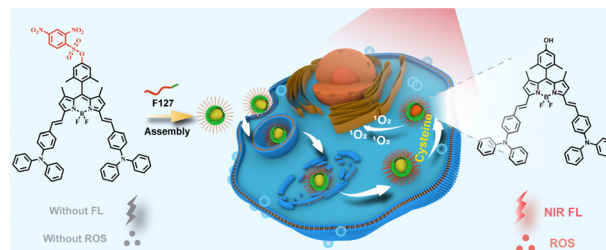


COMMUNICATIONS

3910

A smart cysteine-activated and heavy-atom-free nano-photosensitizer for photodynamic therapy to treat cancers

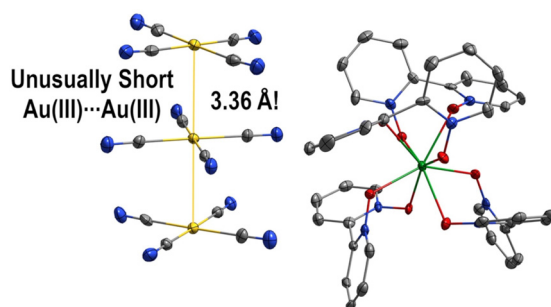
Shengze Su, Xingcan Li, Qian An, Tao Liang, Yanying Wang, Hongping Deng, Xiaoxing Xiong, Wing-Leung Wong,* Huijuan Zhang* and Chunya Li*



3914

Unusually short unsupported Au(III)···Au(III) aurophilic contacts in emissive lanthanide tetracyanoaurate(III) complexes

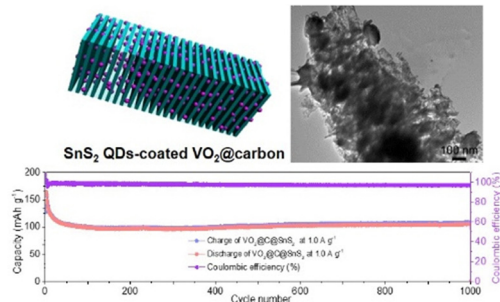
Thomas E. Karpiuk, Samyadeb Mahato, Tim Storr and Daniel B. Leznoff*



3918

SnS₂ quantum dots-coated VO₂@carbon nanorods for secondary battery displaying high capacity and rate-performance

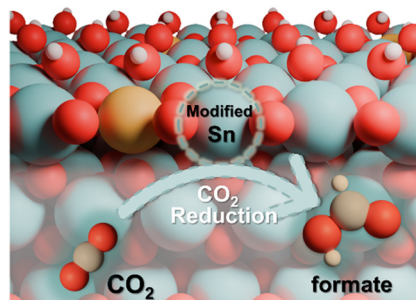
Tianli Han,* Yan Wang, Kehao Tao, Xiangbin Zeng, Peng Zhan, Yajun Zhu, Jinjin Li* and Jinyun Liu*



3922

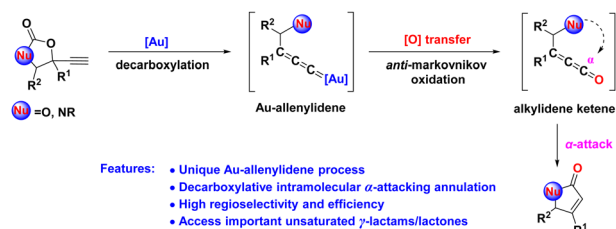
Electronic structure modification of SnO₂ to accelerate CO₂ reduction towards formate

Lulu Li, Shican Wu, Dongfang Cheng, Zhi-Jian Zhao* and Jinlong Gong*



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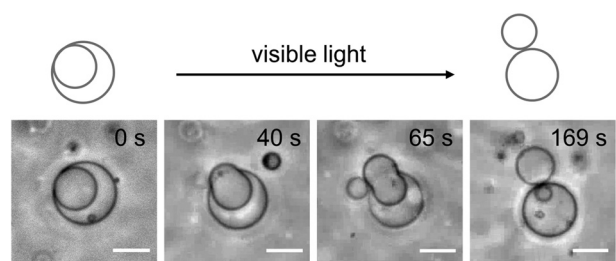
3926



Au-allenylidene promoted decarboxylative annulation to access unsaturated γ -lactams/lactones

Xuelun Duan, Haotian Shi, Yangyang Yue and Wangze Song*

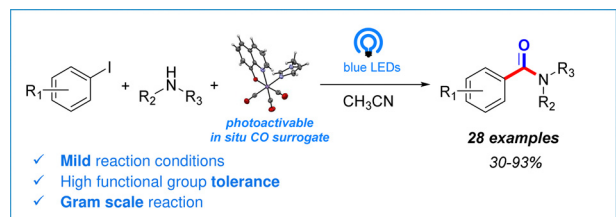
3930



Control of giant vesicle assemblies by stimuli-responsive lipids

Youngjun Lee, Alessandro Fracassi and Neal K. Devaraj*

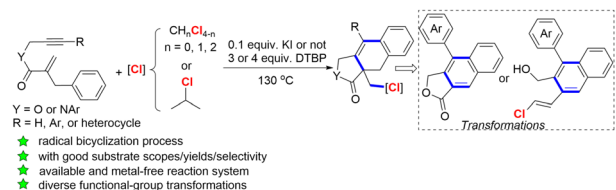
3934



Photoinduced CO-releasing molecule (photoCORM) as an *in situ* CO surrogate for palladium-catalysed aminocarbonylation

Marcel Annereau, Michèle Salmain and Vincent Corcé*

3938



Metal-free radical bicyclization/chloroalkylarylation of 1,6-enynes with chloroalkanes

Hongxun Zhou, Lijun Li,* Qinqin Yan, Jinyue Ma, Ying Wang, Yongjun Gao, Zhong-Quan Liu* and Zejiang Li*

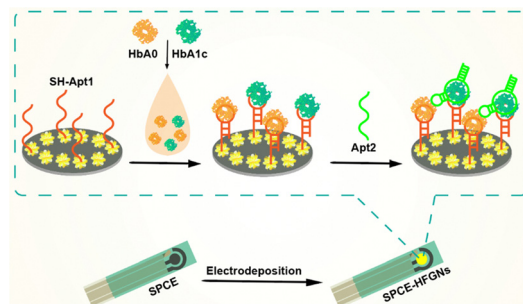


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3942

A three-in-one point-of-care electrochemical sensing platform for accurate monitoring of diabetes

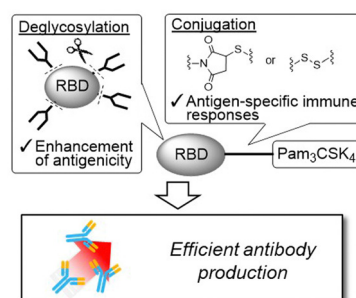
Youwei Zheng, Yingying Cen, Tianchen Du, Dan Zhu, Shao Su* and Lianhui Wang*



3946

Synthesis and immunological evaluation of TLR1/2 ligand-conjugated RBDs as self-adjuvanting vaccine candidates against SARS-CoV-2

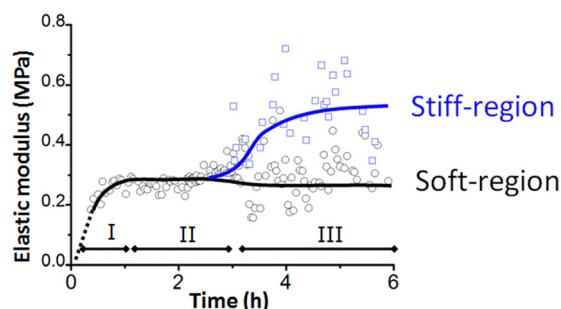
Yoshiyuki Manabe,* Brandon Gárate-Reyes, Keita Ito, Ramón Hurtado-Guerrero, Kazuya Kabayama and Koichi Fukase*



3950

Time evolution of moduli of a polymer-induced liquid precursor (PILP) of calcium carbonate

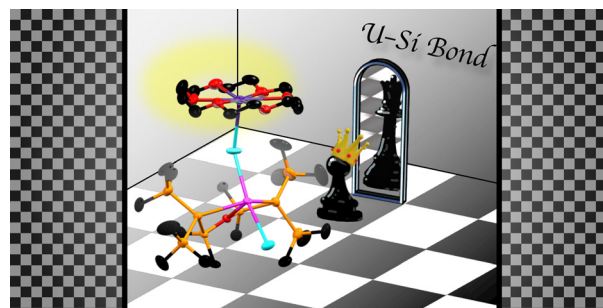
Changyu Shao, Haihua Pan,* Jinhui Tao, Kang Rae Cho, Ruikang Tang,* Laurie B. Gower and James J. De Yoreo*



3954

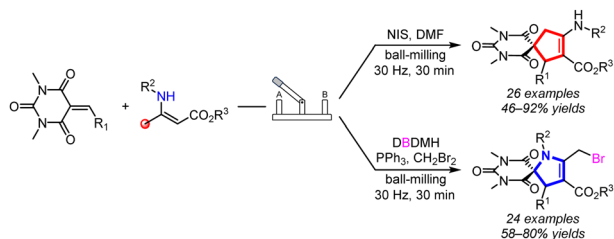
Solution and solid-state characterization of rare silyluranium(III) complexes

Nathan J. Lin, Matthias Zeller and Suzanne C. Bart*



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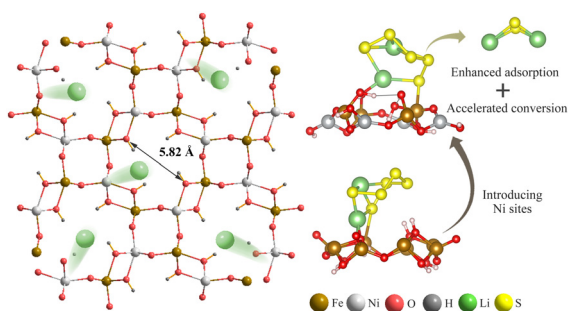
3958



Chemodivergent mechanosynthesis of cyclopentenyl and pyrrolinyl spirobarbiturates from unsaturated barbiturates and enamino esters

Ming-Jun Li, Ming-Ming Lu, Peng Xu, Si-Qi Chen, Luan-Ting Wu, Ze Zhang* and Hui Xu*

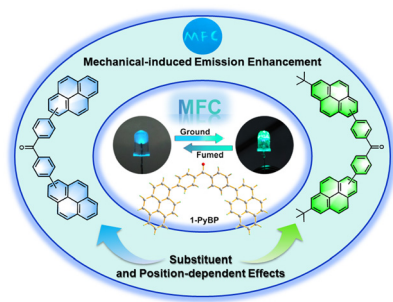
3962



Regulating the catalytic behaviour of iron oxyhydroxide by introducing Ni sites for facilitating polysulfide anchoring and conversion

Jingshuai Xiao, Haocong Wei, Xiao Sun, Tengfei Yang, Xiang Wu, Yan Song* and Chaozheng He*

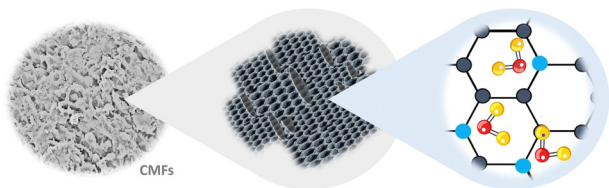
3966



Regulable high-contrast mechanofluorochromic enhancement behaviour based on substituent effects

Guang Yang, Wen-Xuan Zhao, Jing-Yi Cao, Zeng-Min Xue, Hong-Tao Lin, Shu-Hai Chen,* Takehiko Yamato,* Carl Redshaw and Chuan-Zeng Wang*

3970



SO₂ capture and detection with carbon microfibers (CMFs) synthesised from polyacrylonitrile

Ana Yañez-Aulestia, Valeria B. López-Cervantes, J. Marcos Esparza-Schulz, Diego Solis-Ibarra, Ilich A. Ibarra, Salomón Cordero-Sánchez,* Eli Sánchez-González* and Reyna Ojeda-López*

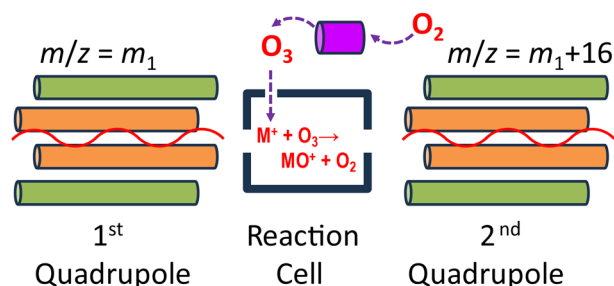


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3974

On-line generated ozone as a reactive cell gas for tandem quadrupole inductively coupled plasma mass spectrometry

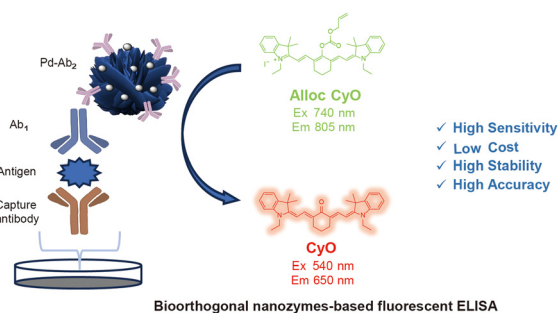
Yanbei Zhu*



3978

A highly sensitive ratiometric fluorescence immunoassay based on bioorthogonal nanozymes

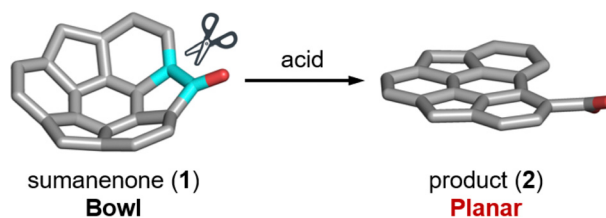
Xiajian Liu, Nianhua Wang, Yixuan Hou, He Dong, Wenhua Liang, Xinchun Li* and Youyong Yuan*



3982

Strain-induced carbon–carbon bond cleavage of bowl-shaped sumanenone

Mikey Nishimoto, Yuta Uetake, Yumi Yakiyama and Hidehiro Sakurai*



3986

Benzene-fused porphyrin(2.1.2.1) array: synthesis, structure, and electrocatalytic hydrogen evolution

Yuting Dong, Long Qian, Feng Chen, Yue Wang, Tao Zhang, Fengxian Qiu,* Toshiharu Teranishi* and Songlin Xue*

