

ChemComm

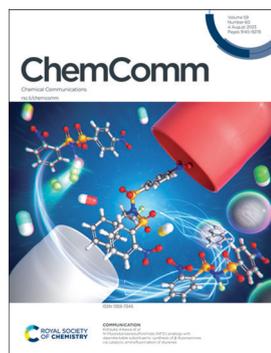
Chemical Communications

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IN THIS ISSUE

ISSN 1359-7345 CODEN CHCOFS 59(60) 9145-9278 (2023)



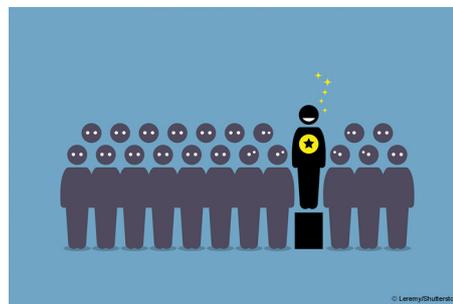
Cover

See Kohsuke Aikawa *et al.*, pp. 9195–9198. Image reproduced by permission of Kohsuke Aikawa from *Chem. Commun.*, 2023, 59, 9195.

EDITORIAL

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Outstanding Reviewers for *ChemComm* in 2022

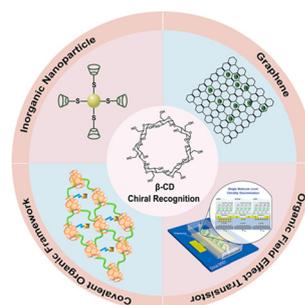


HIGHLIGHT

9157

Recent advances in β -cyclodextrin-based materials for chiral recognition

Jiale Guo, Jinxing Hou, Juntao Hu, Yajiao Geng, Mengxue Li, Hui Wang, Jinli Wang and Quan Luo*



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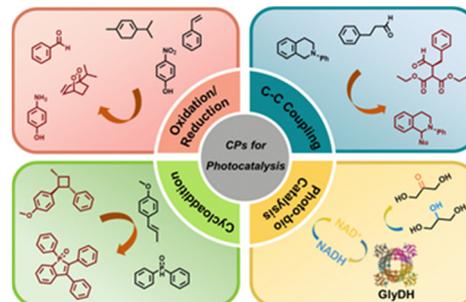


FEATURE ARTICLES

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Emerging conjugated polymers for heterogeneous photocatalytic chemical transformation

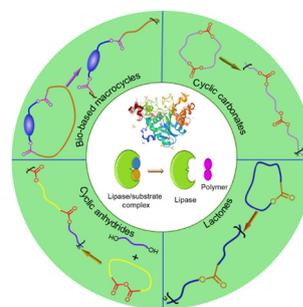
Hao Zhang, Wenxin Wei and Kai A. I. Zhang*



9182

Lipase-catalyzed ring-opening polymerization of natural compound-based cyclic monomers

Kaojin Wang, Caizi Li, Limin Man, Meng Zhang, Yong-Guang Jia and X. X. Zhu*

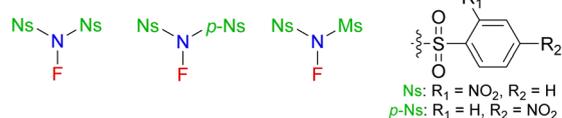


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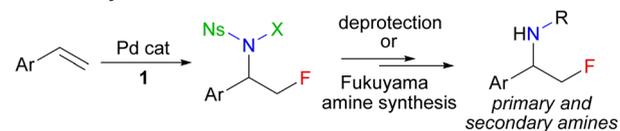
9195

N-Fluorobenzenesulfonimide (NFSI) analogs with deprotectable substituents: synthesis of β -fluoroamines via catalytic aminofluorination of styrenes

Yuki Ito, Akiya Adachi, Kohsuke Aikawa,* Kyoko Nozaki and Takashi Okazoe

■ Novel N-F reagents **1** with deprotectable Ns group

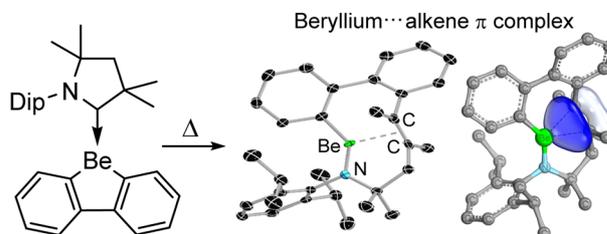
■ Pd-Catalyzed aminofluorination



9199

Dibenzoberylloles: antiaromatic s-block fluorene analogues

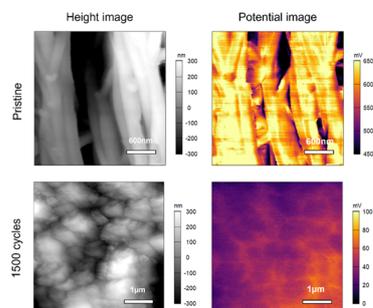
Tobias Tröster, Franziska Endres, Merle Arrowsmith, Lukas Endres, Felipe Fantuzzi and Holger Braunschweig*



8 covalent bonds broken or formed in total



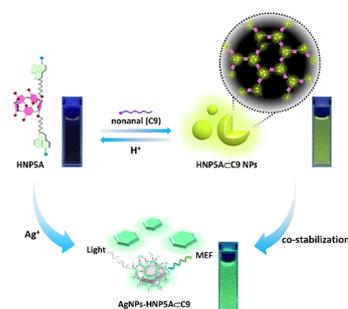
9203



Cycle-dependent morphology and surface potential of germanium nanowire anode electrodes

Srikanth Kolagatla, Gearoid A. Collins, Jason I. Kilpatrick, Emrullah Kargin, Kevin M. Ryan and Brian J. Rodriguez*

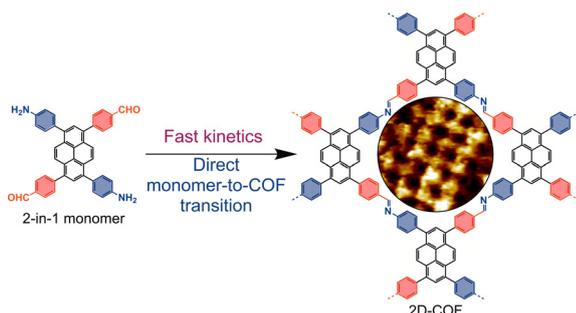
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Supramolecular self-assembled polymeric nanospheres based on hydrazino naphthalimide functionalised pillar[5]arene for long chain aldehyde detection

Yanisa Sanguansap, Vithaya Ruangpornvisuti, Thassanant Atithev, Thanthapatra Bunchuay* and Boosayarat Tomapatanaget*

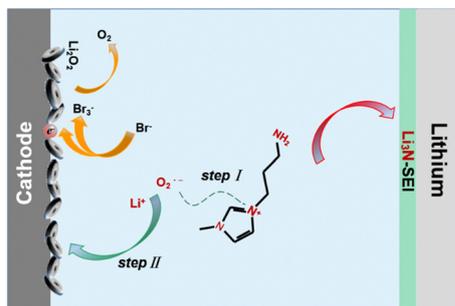
9211



On the nucleation and fast reaction kinetics of 2D polymerisation with a 2-in-1 monomer

Niklas Herrmann, Cristina Martin, Samuel Eyley, Yusen Li, Nerea Bilbao, Victor Rubio-Giménez, Mark Van der Auweraer, Wim Thielemans, Long Chen,* Kunal S. Mali* and Steven De Feyter*

9215



Trifunctional imidazolium bromide: a high-efficiency redox mediator for high-performance Li-O₂ batteries

Lei Wang, Wei Li, Xinyi Sun, Xiaowei Mu, Chuanhao Sheng, Zhang Wen, Ping He* and Haoshen Zhou

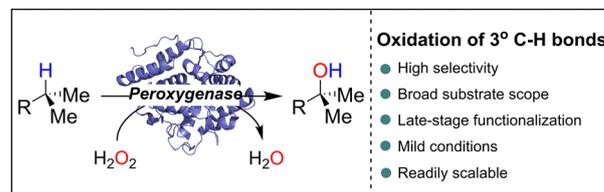


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H₂O₂-driven enzymatic oxyfunctionalization of tertiary C–H bonds

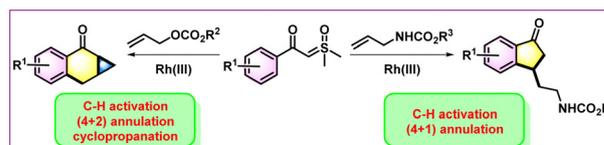
Yawen Huang, Huanhuan Li, Pengpeng Zhang, Yalan Zhang, Peigao Duan and Wuyuan Zhang*



9223

Divergent reactivity of sulfoxonium ylide with allyl carbonate and allyl carbamate

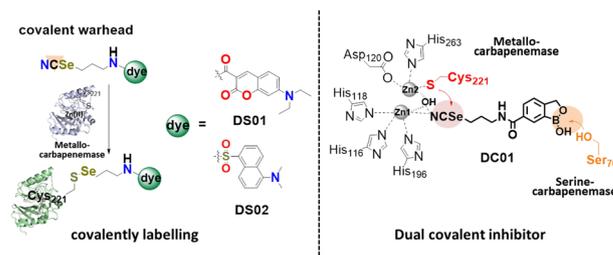
Vinayak Hanchate, Sudharshan Nagabhushana Reddy, Anil Kumar and Kandikere Ramaiah Prabhu*



9227

A dual covalent binder for labelling and inhibiting serine and metallo-carbapenemases

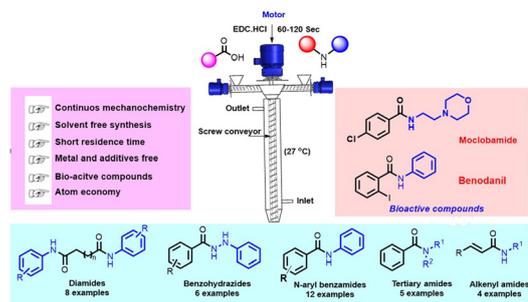
Cheng Chen,* Yinsui Xu, Peter Oelschlaeger, Jürgen Brem, Lu Liu, Dongmei Wang, Hongzhe Sun and Ke-Wu Yang*



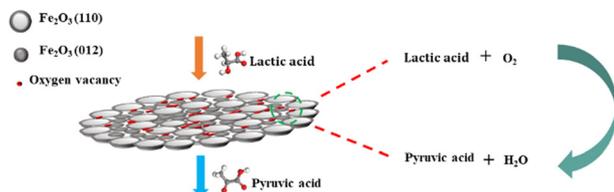
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Direct amidation of acids in a screw reactor for the continuous flow synthesis of amides

Ranjit S. Atapalkar and Amol A. Kulkarni*



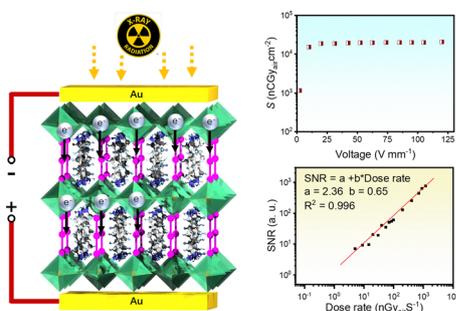
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Boosted oxidative dehydrogenation of lactic acid into pyruvic acid on polyvinylpyrrolidone modified Fe_2O_3

Zhendi Jia, Congming Tang, Kai Ma and Xinli Li*

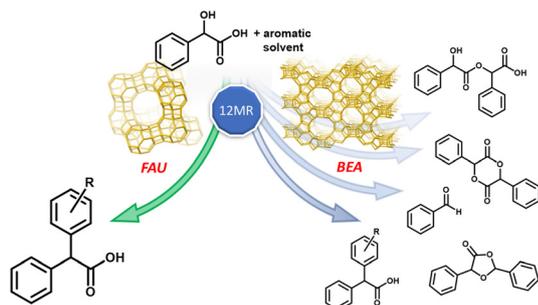
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0D triiodide hybrid halide perovskite for X-ray detection

Yuyin Wang, Shaoya Zhang, Yinan Wang, Jishuang Yan, Xinran Yao, Man Xu, Xiao-wu Lei, Guoming Lin* and Cheng-yang Yue*

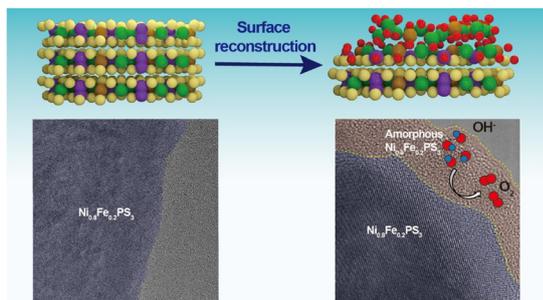
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Selective alkylation of mandelic acid to diarylacetic acids over a commercial zeolite

Samuel G. Meacham and Russell A. Taylor*

9247



Unraveling the surface self-reconstruction of Fe-doped Ni-thiophosphate for efficient oxygen evolution reaction

Balakrishnan Kirubasankar, Yo Seob Won, Soo Ho Choi, Jae Woo Kim, Laud Anim Adofo, Soo Min Kim* and Ki Kang Kim*

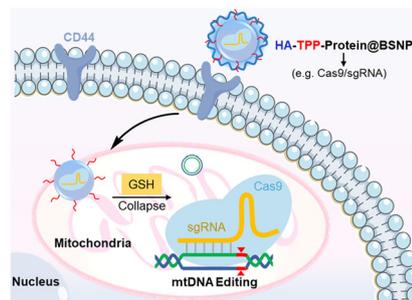


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Cell-type-specific CRISPRization of mitochondrial DNA using bifunctional biodegradable silica nanoparticles

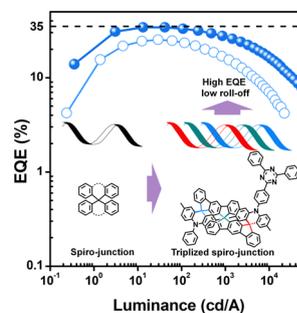
Linye Jiang, Bizhong Zhou, Huijuan Qian, Hongfeng Wang, Yuxi Wang, Weijiao Fan, Guowan Zheng* and Jingyan Ge*



9255

Multi-spiro junctions enable efficient thermally activated delayed fluorescent emitter

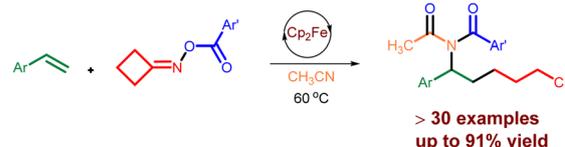
Yang Liu, Yulin Xu, Hao Peng, Jingsheng Miao, He Liu* and Chuluo Yang*



9259

Ferrocene catalyzed redox-neutral difunctionalization of alkenes using cycloketone oxime esters: access to distal imido-nitriles

Durga Golagani, Sriram Ajmeera, William Erb,* Florence Mongin and Srirama Murthy Akondi*

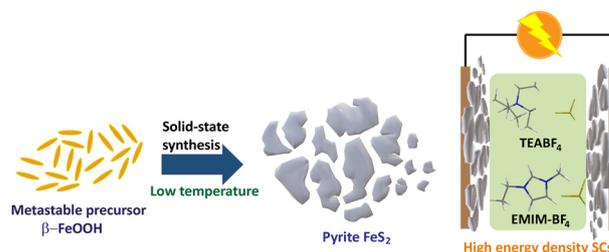


- ▶ Ferrocene catalysis
- ▶ Redox-neutral and mild conditions
- ▶ 100% atomic utilization
- ▶ Late-stage functionalization

9263

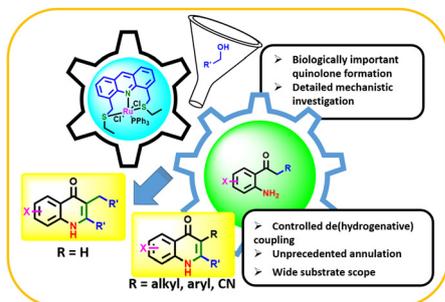
Low temperature synthesis of crystalline pyrite FeS₂ for high energy density supercapacitors

Savithri Vishwanathan and H. S. S. Ramakrishna Matte*



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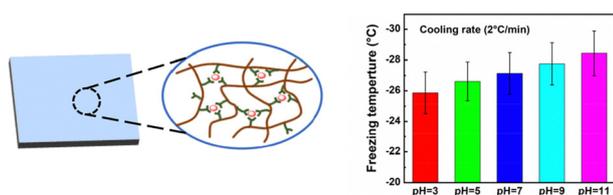
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Ruthenium-catalyzed dehydrogenative cyclization to synthesize polysubstituted 4-quinolones under solvent-free conditions

Bitan Sardar, Debjyoti Pal, Rajashri Sarmah and Dipankar Srimani*

9271



Tuning ice nucleation with pH-modulated Fe³⁺ cross-linked hydrogel surfaces

Xiao Meng, Yunhe Diao, Ranran Zhu, Fan Zhang, Xuying Liu, Jinzhou Chen and Huige Yang*

CORRECTION

9275

Correction: Unorthodox crystalline drug salts *via* the reaction of amine-containing drugs with CO₂

Mohammad Soltani, Brandon L. Mash, Julian Henseler, Sharhzad Badri, Matthias Zeller, E. Alan Salter, Andrzej Wierzbicki, Alexandra C. Stenson and James H. Davis*

