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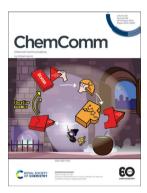
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See Michael T. Ruggiero et al., pp. 12169-12172. Image reproduced by permission of Michael T. Ruggiero from Chem. Commun., 2024, 60, 12169.



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See Chun-Hung Lin et al., pp. 12173-12176. Image reproduced by permission of Chun-Hung Lin from Chem. Commun., 2024, 60, 12173.

PROFILE

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Contributors to the Emerging Investigators collection 2024: Part 2

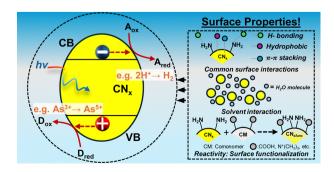


HIGHLIGHT

12034

Surface properties of carbon nitride materials used in photocatalytic systems for energy and environmental applications

Peter Osei Ohemeng and Robert Godin*







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FEATURE ARTICLES

12062

Spot the difference in reactivity: a comprehensive review of site-selective multicomponent conjugation exploiting multi-azide compounds

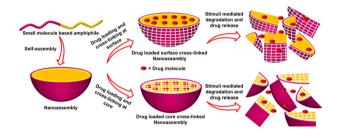
Hiroki Tanimoto* and Takenori Tomohiro

Azide-click Exam: Select an azide site and propose a suitable click method or candidate for site-selective conjugation to that azide site.

12101

Small molecule-based core and shell cross-linked nanoassemblies: from self-assembly and programmed disassembly to biological applications

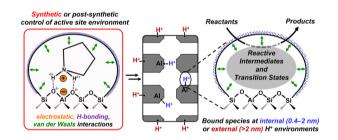
Subrata Santra and Mijanur Rahaman Molla*



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Advances and challenges in designing active site environments in zeolites for Brønsted acid catalysis

Sopuruchukwu Ezenwa and Rajamani Gounder*



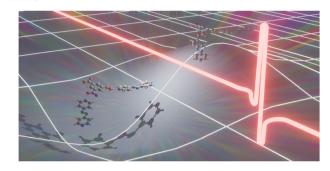
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Aqueous two-phase systems - versatile and advanced (bio)process engineering tools

Alexandre M. S. Jorge and Jorge F. B. Pereira*



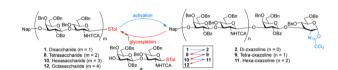
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Fundamentally intertwined: anharmonic intermolecular interactions dictate both thermal expansion and terahertz lattice dynamics in molecular crystals

Navkiran Juneja, Josephine L. Hastings, William B. Stoll, William W. Brennessel, Salvatore Zarrella, Parker Sornberger, Luca Catalano, Timothy M. Korter and Michael T. Ruggiero*

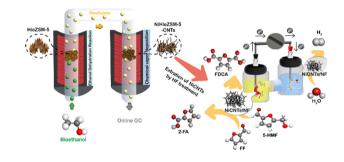
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Glycosyl oxazolines serve as active donors for iterative synthesis of type I oligosaccharides

Nitish Verma, Zhijay Tu, Septila Renata and Chun-Hung Lin*

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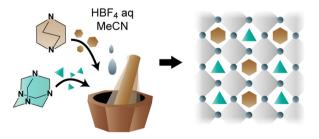


Ni-decorated carbon nanotubes (CNTs) derived from ethanol for electrooxidation of furan derivatives featuring H₂ production

Watinee Nunthakitgoson, Peeranat Chaipornchalerm, Anousha Sohail, Anawat Thivasasith and Chularat Wattanakit*

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molecular mixed metal free perovskite



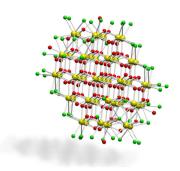
Solvent-assisted mechanochemical crystallization of the metal-free perovskite solid solution $(H_2dabco, H_2hmta)NH_4(BF_4)_3$

Jumpei Moriguchi, Tomoe Koga, Nao Tsunoji, Sadafumi Nishihara, Tomoyuki Akutagawa, Atsuko Masuya-Suzuki and Ryo Tsunashima*

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Isolation of a chloride-capped cerium polyoxo nanocluster built from 52 metal ions

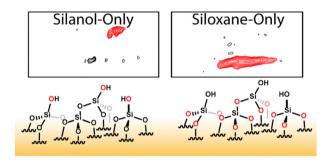
Anamar Blanes-Díaz, Jennifer N. Wacker, Jennifer E. S. Szymanowski, Jeffery A. Bertke and Karah E. Knope*



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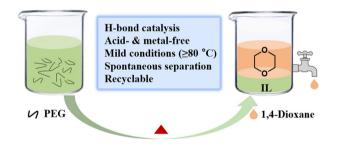
Amil Agarwal, Marco Mais and Frédéric A. Perras*



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Hydrogen-bonding catalysis of the degradation of polyethylene glycol to 1,4-dioxane over OH-functionalized ionic liquid

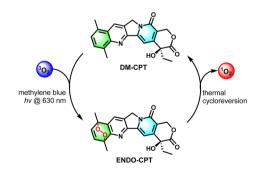
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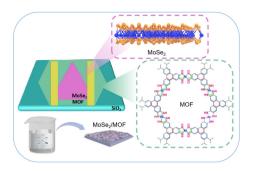
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Overcoming multidrug resistance by a singlet oxygen releasing camptothecin-endoperoxide

Guangyu Zhang, Lei Wang,* Yuan Qiao, Feiyan Zhang, Rensong Sun and Engin U. Akkaya*



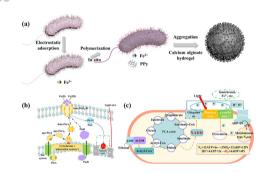
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Enhanced carrier transport of monolayer MoSe₂ through interlayer coupling with in situ grown metal-organic frameworks

Shan Wang, Qing Zhang, Aiqing Fan, Lin Li and Dechao Geng*

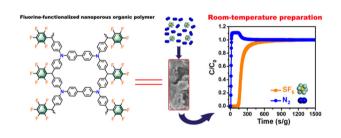
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Study on confined interface electron enhanced ethanol to hydrogen conversion by Rhodopseudomonas palustris

Zhengyu Tao, Baoyuan Li, Song Lin, Shangsong Li, Luxuan Li and Xin Huang*

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Room-temperature synthesis of a fluorine-functionalized nanoporous organic polymer for efficient SF₆ separation

Jiangli Zhu, Danchi Luo, Qilin Wang, Sihan Tong, Zefeng Wang and Jun Yan*

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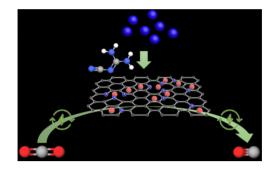
Magnesium-promoted nickel-catalysed chlorination of aryl halides and triflates under mild conditions

Tian-Yu Zhang, Muhammad Bilal, Tian-Zhang Wang, Chao-Peng Zhang and Yu-Feng Liang*

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A universal strategy for the synthesis of transition metal single atom catalysts toward electrochemical CO2 reduction

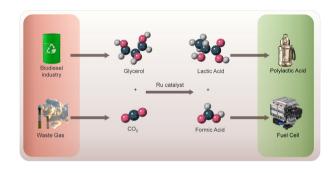
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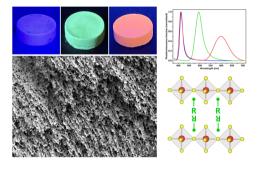
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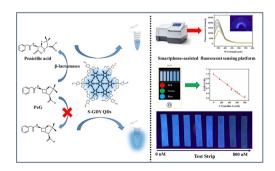
Penghao Guo, Xuelian Jiang and Pei-Xi Wang*



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Innovative fluorescence sensing platform for β-lactams based on acidity/basicity-sensitive graphdiyne quantum dots

Gangbing Zhu, Diyan Liao, Jing Li and Yinhui Yi*

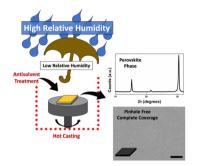


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Cross-conjugated vinylogous annulation of π-CF₃-allyl Pd-complexes with 4-methyl-3trifluoroacetyl-quinolones

Chiliveru Priyanka, Desagoni Madhu, Palivela Siva Gangadhar, Lingamallu Giribabu and Nagender Punna*

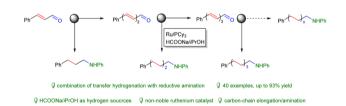
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Antisolvent-assisted growth of inorganic CsPb(Br,I)₃ under ambient conditions

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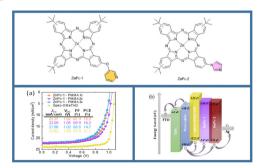
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Juntao Yang, Miaomiao Tian, Junbiao Chang* and Bingxian Liu*

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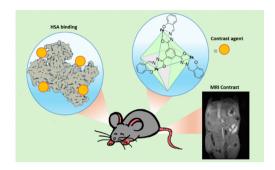
Asymmetric phthalocyanine-based hole-transporting materials: evaluating the role of heterocyclic units and PMMA additive

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Aruni Dissanayake, Joseph A. Spernyak and Janet R. Morrow*



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Ryan Dol, Nenad Kovljenic and Travis Dudding*

