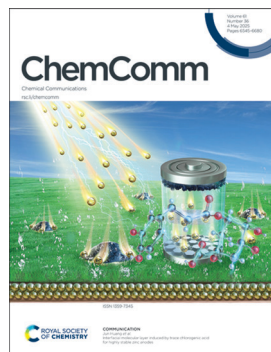


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Cover

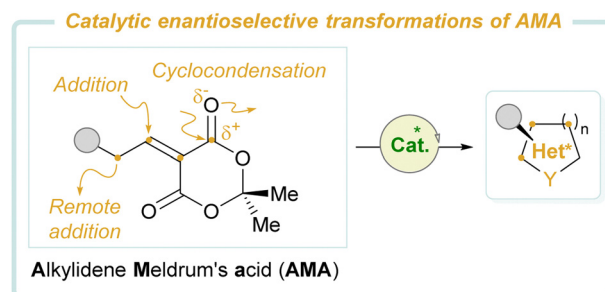
See Jun Huang et al.,
pp. 6595-6598.
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Chem. Commun.,
2025, 61, 6595.

FEATURE ARTICLES

6555

Recent advances of asymmetric catalytic transformations of alkylidene Meldrum's acid derivatives

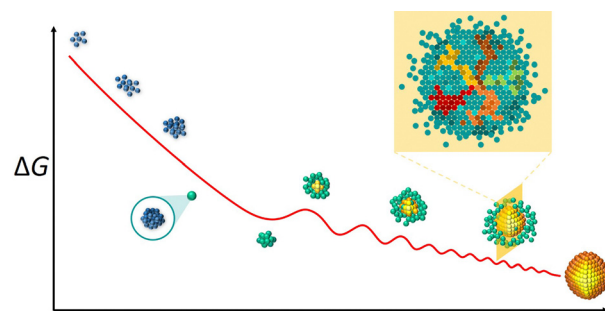
Hélène Beucher, Vincent Levacher, Sylvain Oudeyer and Jean-François Brière*



6567

Structural order of Mg-stabilized amorphous calcium carbonate and its associated phase transformation

Shu-Li Li, Chieh Tsao, Sheng-Yu Yang and Jerry Chun Chung Chan*



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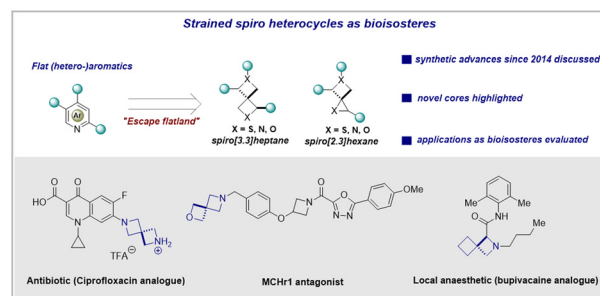


HIGHLIGHT

6579

Strained spiro heterocycles as potential bioisosteres: an update on the synthesis of heteroatom-containing spiro[2.3]hexanes and spiro[3.3]heptanes

Philipp Natho, Marco Colella and Renzo Luisi*

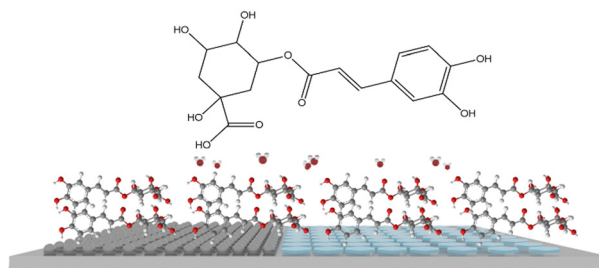


COMMUNICATIONS

6595

Interfacial molecular layer induced by trace chlorogenic acid for highly stable zinc anodes

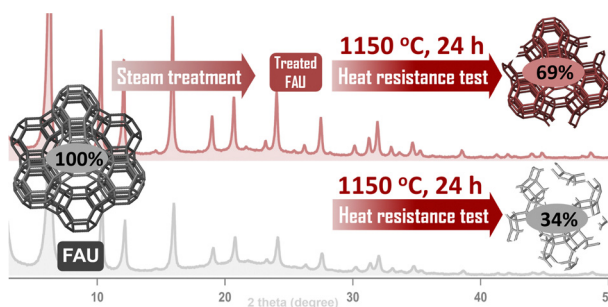
Jinlong Zhang, Bing Cai, Qing Wu and Jun Huang*



6599

Achieving extreme thermal stability of high-silica FAU through trace water-assisted steam treatment

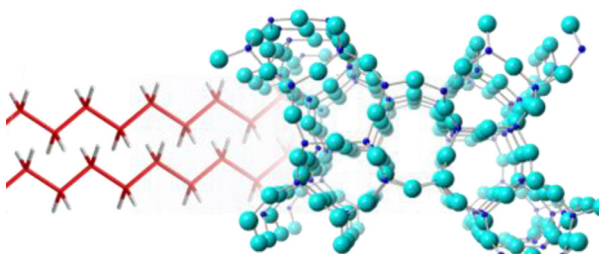
Boqing Li, Raquel Simancas, Kenta Iyoki, Shanmugam P. Elangovan, Takahiro Ohkubo, Tatsuya Okubo and Toru Wakihara*



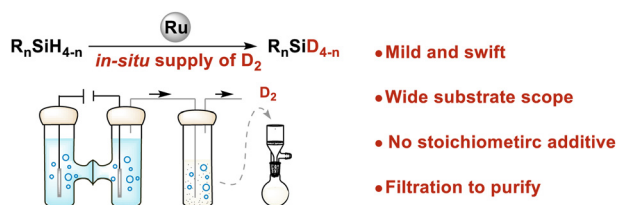
6603

Operando infrared and inelastic neutron scattering studies of zeolite catalysed low-density polyethylene degradation

Emma Campbell, Katie S. C. Morton, Alexander J. O'Malley, Sandie E. Dann, Pierre Moreau, Ian P. Silverwood, Simon A. Kondrat, Andrew M. Beale and Matthew E. Potter*



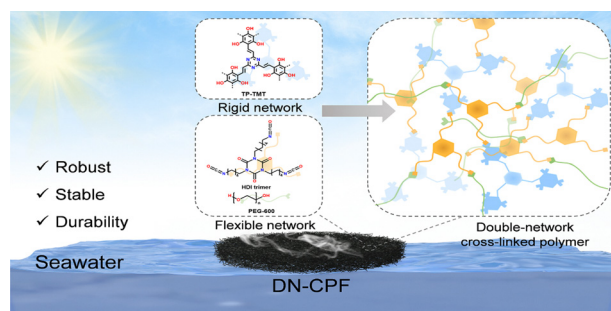
6607



Ru-based nanoparticle catalyzed direct H/D exchange of silanes

Yachun Wang, Feiyu Qiu, Fengze Yao, Li Zeng, Aiwen Lei* and Wu Li*

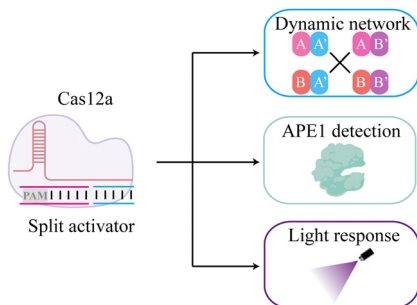
6611



A robust double-network polymer evaporator for enhanced solar-driven water purification

Yuan Chen, Chang Lv, Yu-xiang Zhao, Wen-kai Zhao, Guang-en Fu, Jun-yi Han, Hao-yong Yang, Sheng Wang* and Tao Zhang*

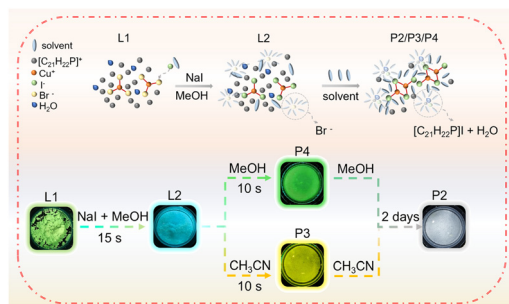
6615



A multi-functional synergistic platform of Cas12a split dsDNA activators

Xiaolong Li, Jiarun Wang, Xianzhi Cheng, Qin Xu,* Lan She* and Tongbo Wu*

6619



Halogen and solvent effects induced structural transformation and isostructural luminescence regulation in copper-based hybrid halides

Lin Yang, Yani Li, Xia Liu, Bohan Li and Yan Xu*

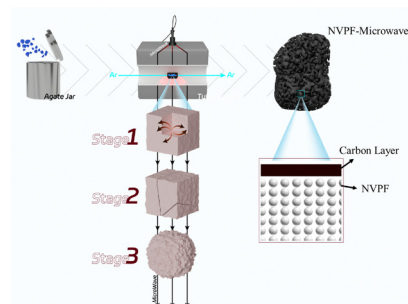


COMMUNICATIONS

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Rapid and efficient microwave-assisted solid-phase synthesis of $\text{Na}_3\text{V}_2(\text{PO}_4)_2\text{F}_3$ and exploration of the synthesis process

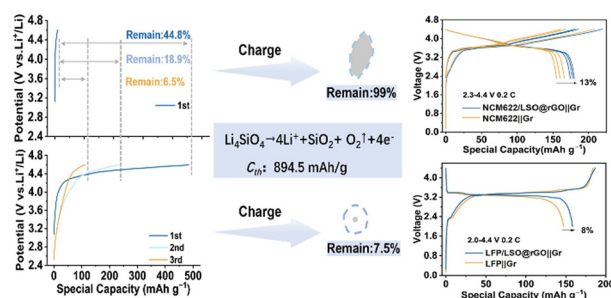
Fa He, Jiyang Kang, Ruoyang Wang, Zhuangzhi Li, Haoyu Li, Benhe Zhong, Fang Wan, Zhenguo Wu* and Xiaodong Guo



6627

A novel cathode Li-supplement additive for high-energy and long-lifespan LIBs

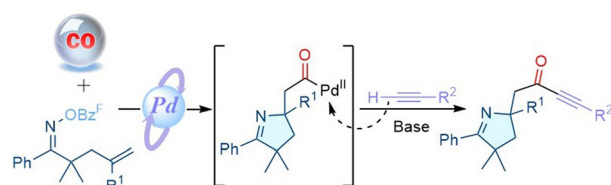
Chengsifan Lei, Meng Huang,* Jinghui Chen, Feng Tao, Lei Zhang* and Qinyou An*



6631

Palladium-catalyzed Narasaka–Heck carbonylation for the construction of functionalized ynones

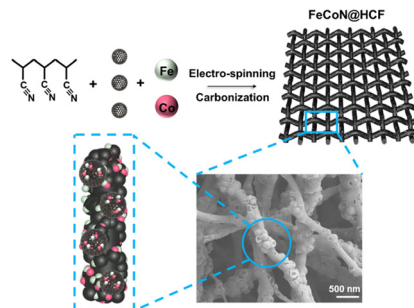
Ming Li,* Fa-Xiang Yang, Shanmei Xu, Xue-Liang Zhang, Dong-Ping Chen, Shun-Xi Li, Yi-Feng Qiu, Zheng-Jun Quan,* Xi-Cun Wang* and Yong-Min Liang



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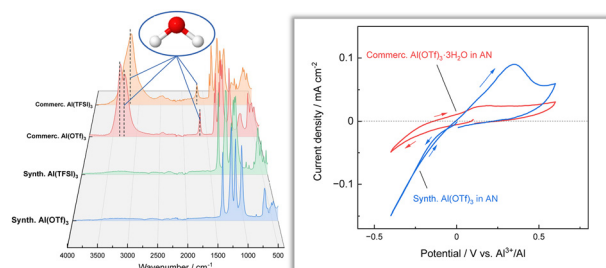
Weaving hollow fiber structure with transition metal catalyst for zinc–air batteries

Zhan Yan, Chang Sun, Tianyu Liu, Ningxiang Wu, Sheng Li,* Tao Sun,* Yu Lin Zhong* and Jingxia Qiu



COMMUNICATIONS

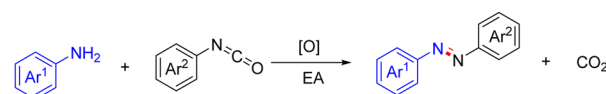
6639



Anhydrous salts for non-corrosive aluminium battery electrolytes

Tomooki Hosaka* and Patrik Johansson

6643

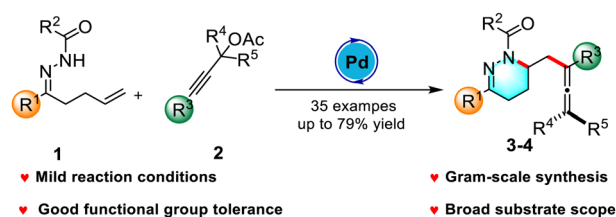


- Mild and non-acidic conditions
- EA as solvent
- N=N Coupling
- Synthesis of asymmetric azobenzenes
- Oxidative Decarbonylation Coupling

Oxidative decarbonylation coupling of anilines with isocyanates for the synthesis of unsymmetric azobenzenes

Jie Huang, Yutong Hu, Jiajie Wu, Weijie Ren, Jiehao Chen, Xiangya Cai, Wenfang Xiong,* Huanying Li, Xiuwen Chen* and Zhongzhi Zhu*

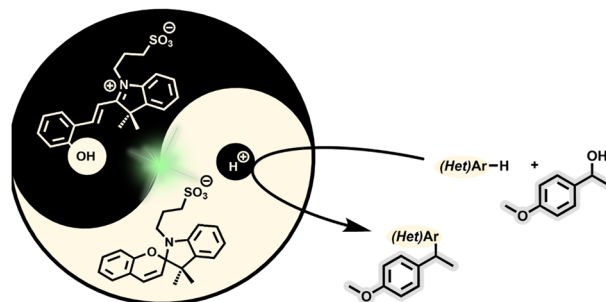
6647



Palladium-catalysed alleneamination of γ,δ -unsaturated hydrazones with propargylic acetates: access to tetrahydropyridazines bearing allenes

Shuaijie Wu, Shiji Xu, Yanru He, Jing Sun, Wei Jiang, Chao-Guo Yan,* Weiming Hu* and Lei Wang*

6651



Merocyanine-based photoacids as recyclable catalysts in visible-light-driven transformations

Armaz Tsutskiridze, Dana Králová, Indrajit Ghosh* and Burkhard König*

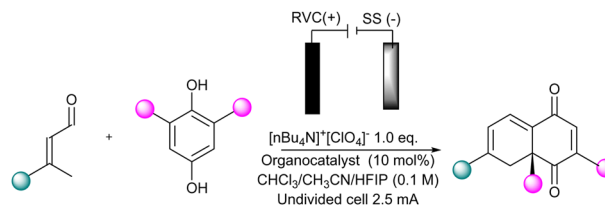


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Electroorganocatalytic asymmetric Diels–Alder cycloaddition of hydroquinones with α,β -unsaturated aldehydes

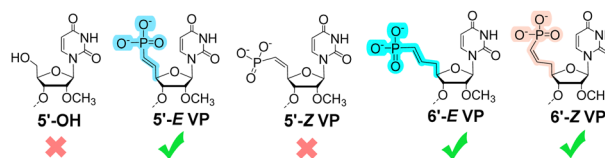
Dominika Pomikłó, Krzysztof Romaniuk, Lesław Sieroń and Anna Albrecht*



6659

Expanding the binding space of argonaute-2: incorporation of either *E* or *Z* isomers of 6'-vinylphosphonate at the 5' end of the antisense strand improves RNAi activity

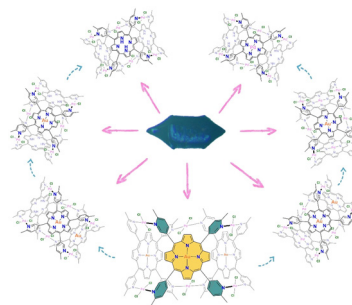
Dhrubajyoti Datta, Jayanta Kundu, Patrick Miller, Mehreen S. Khan, Juan Salinas, June Qin, Sarah LeBlanc, Tuyen Nguyen, Haiyan Peng, Christopher S. Theile, Martin Egli and Muthiah Manoharan*



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A high-entropy coordination cage featuring an Au-porphyrin metalloligand for the photodynamic therapy of liver cancer

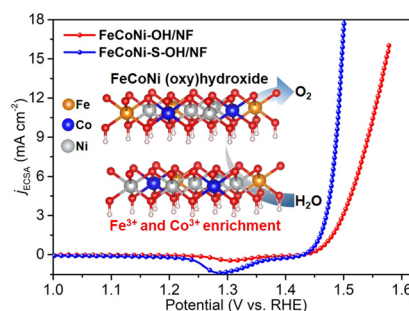
Feng-Lin Cao, Ze-Sheng Zhang, Meng-Lin Dong, Ye Ning, Wen-Hua Zhang,* Yiming Mao* and David J. Young



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Sulfur species induced Fe³⁺ and Co³⁺ enrichment in a low-crystalline FeCoNi hydroxide boosts water oxidation

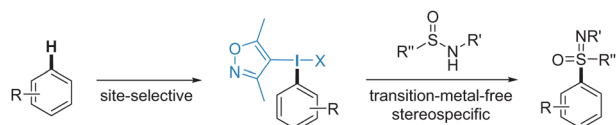
Kailu Guo,* Yinjian Chen, Jinzhi Jia, Huijiao Wang and Cailing Xu*



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Transition-metal-free arene C–H functionalization for the synthesis of sulfoximines

Wenbo Zhang, XinYu Li, Yanchuan Zhao* and Bing Gao*



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Tracking host–guest recognition in cells by a BODIPY·CB[7] complex

Fengbo Liu, Haiqi Xiao, Quan Gao, Didier Siri, David Bardelang, Qi Xing* and Jing Geng*

