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Cover

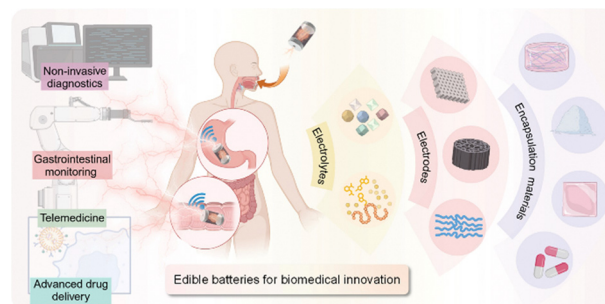
See Jung Tae Park *et al.*,
pp. 8339–8342.
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Chem. Commun.,
2025, 61, 8339.

HIGHLIGHT

8294

Edible batteries for biomedical innovation: advances, challenges, and future perspectives

Yiran Pu, Wenqi Wei, Shuyun Li, Jiaxin Long, Yutong Gu,
Gonghua Hong* and Junling Guo*

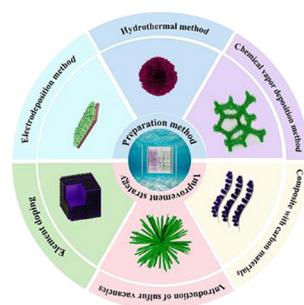


FEATURE ARTICLES

8314

Recent advances in transition metal sulfide-based electrode materials for supercapacitors

Mengkang Zhu, Dan Wang,* Zongyu Ge, Lin Pan,
Yanli Chen, Wenchang Wang, Naotoshi Mitsuzaki,
Shuyong Jia and Zhidong Chen*



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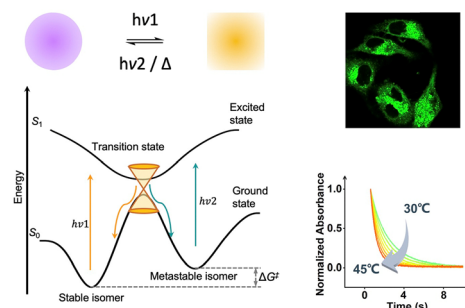


FEATURE ARTICLES

8327

Design and applications of photochromic compounds for quantitative chemical analysis and sensing

Wei Wang, Yu Cheng and Xiaojiang Xie*

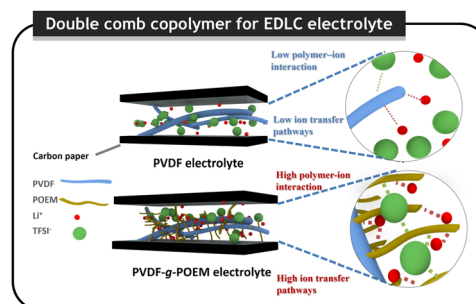


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An amphiphilic PVDF-g-POEM double comb copolymer-based solid-state electrolyte for EDLC applications: electrochemical and electrical property studies

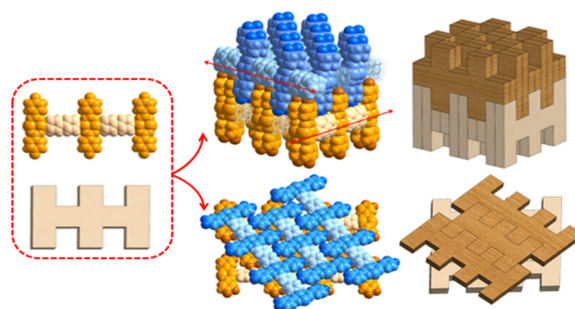
Uoon Chul Baek, Da Hye Sim and Jung Tae Park*



8343

Restructuring of mortise-and-tenon frameworks at the molecular level

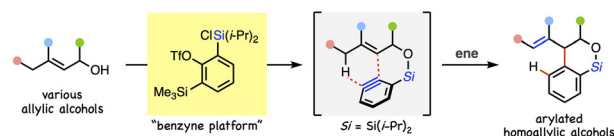
Yifei Li, Fenglei Wang, Shengchang Xiang, Xi Fan* and Zhangjing Zhang*



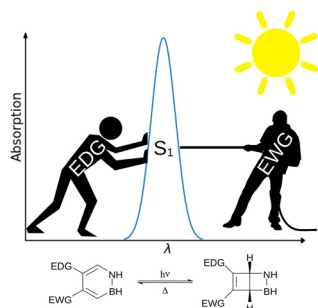
8347

Arylative double bond transposition of allylic alcohols *via* silicon-tethered intramolecular benzyne-ene reactions

Ritsuki Kato, Takaya Sakaue, Tsukasa Tawatari, Kiyosei Takasu* and Hiroshi Takikawa*



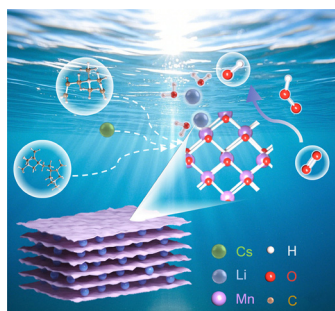
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Rational design of red-shifted 1,2-azaborinine-based molecular solar thermals

Adrian J. Müller, Johannes Markhart, Holger F. Bettinger and Andreas Dreuw*

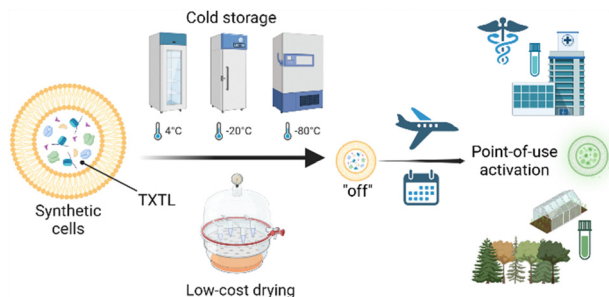
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Interfacial cation engineering in δ -MnO₂ nanosheets for efficient oxygen reduction reaction

Dan Wu, Hao Wan, Zhicheng Zheng, Chengwei Kuang, Ning Zhang, Gen Chen,* Xiaohe Liu* and Renzhi Ma

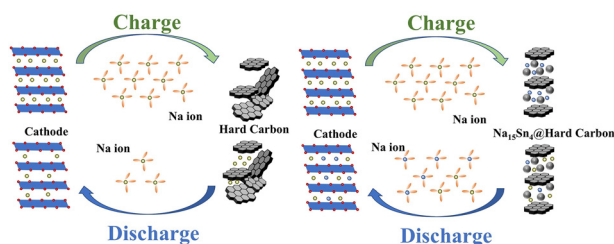
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Synthetic cell preservation strategies enable their storage and activation at the point of use

Ignacio Gispert and Yuval Elani*

8363



Reversible Na₁₅Sn₄ alloy compensation for hard carbon anodes to enhance the initial coulombic efficiency in sodium-ion full cells

Qingsong Lai, Ran Wei, Rui Yang, Qi Li, Kejie Mou, Dongrun Yang, Zhaomeng Liu, Xuan-wen Gao,* Qinfen Gu and Wen-Bin Luo*

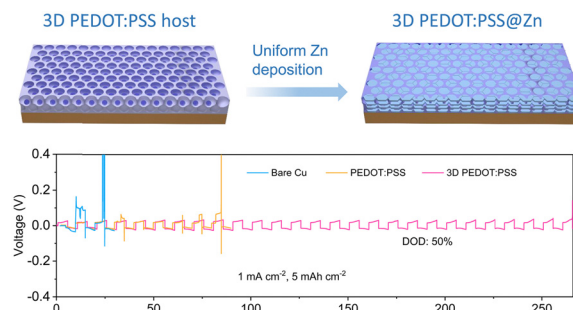


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A porous PEDOT:PSS network over Cu foil for highly reversible dendrite-free zinc deposition

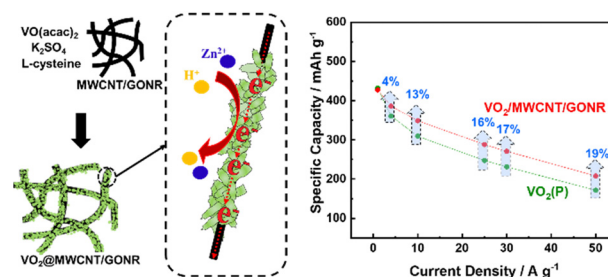
Yao Wang, Zhanrui Zhang, Ying Xue, Jie Sun, Qi Li, Xuexia He, Zonghuai Liu and Zhibin Lei*



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Design and synthesis of VO₂/MWCNT/GONR nanocomposites for ultrahigh-rate and long-life aqueous Zn-ion batteries

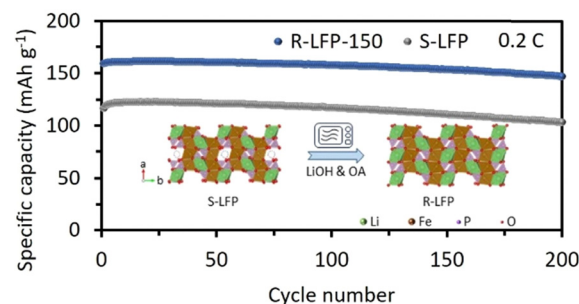
Tzu-Ho Wu,* Cao-Feng Chen, Liang-Jun Guo, Chia-Liang Sun,* Tzu-Kuan Li, Kung-Yi Ni, Chen-Wei Tai and Chi-Chang Hu



8375

Efficient direct regeneration of spent LiFePO₄ from various degradation states for sustainable battery recycling

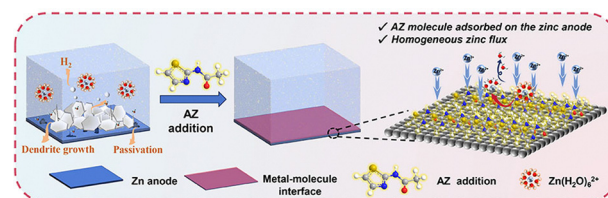
Jintao Zhang, Song Lin Zhang, Nguk Neng Tham, Hui Ru Tan, Wanwan Wang, Yi Ren, Qing Wang* and Zhaolin Liu*



8379

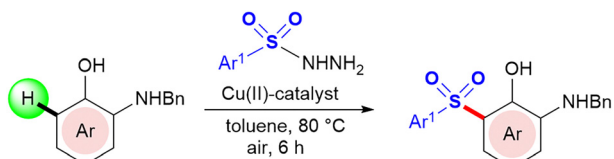
Heterocyclic molecule's coordination chemistry induced water-lean interface for achieving stable zinc anode

Xiaoting Lin, Zhenxin Lin, Hanlin Ding, Minghui Ye, Yongchao Tang, Xiaoqing Liu, Zhipeng Wen, Yufei Zhang* and Cheng Chao Li*



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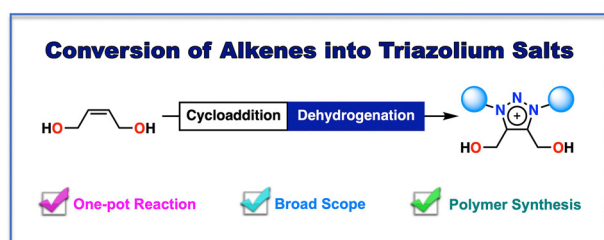


- ✓ regioselective sulfonylation
- ✓ broad substrate scope
- ✓ open-flask conditions
- ✓ sulfonylation of chlorzoxazone
- ✓ fluorescence studies
- ✓ SET mechanism

Substrate-controlled regioselective C(sp²)–H sulfonylation of *ortho*-aminophenols

Yogesh Brijwashi Sharma, Radheshyam Sharma, Deepu Raveend, Aakriti Garg, Sahnawaz Ahmed and Murali Mohan Guru*

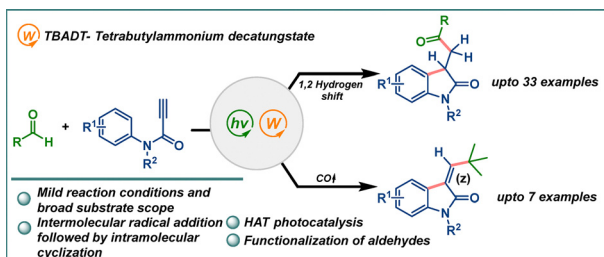
8387



Conversion of simple alkenes into 1*H*-1,2,3-triazolium salts by oxidative cycloaddition and subsequent dehydrogenation

Kazuhito Yamakawa, Yuki Obara, Yosuke Sumiya, Tianzi Wang, Shoki Ogata and Ryosuke Haraguchi*

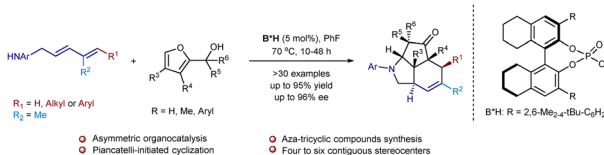
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A TBADT-enabled photo-induced radical cyclization pathway: concise access to functionalized oxindoles

Punith S. Gowda, Duddu S. Sharada* and Gedu Satyanarayana*

8395



Stereoselective construction of 5-6-5 aza-tricyclic scaffolds via catalytic asymmetric aza-Piancatelli/Diels–Alder reactions

Lishu Wang, Han Wang, Xukun Nie, Jun Li,* Yurong Tang and Yunfei Cai*

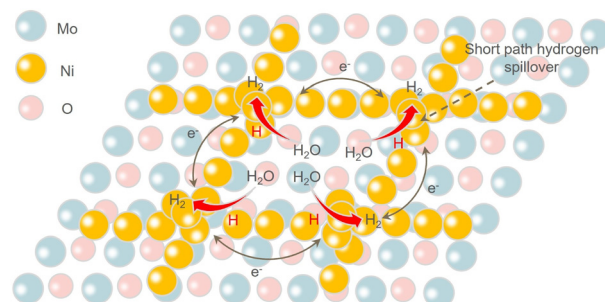


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Nickel nano-network facilitates short-path hydrogen spillover for efficient alkaline hydrogen evolution with high-current-densities

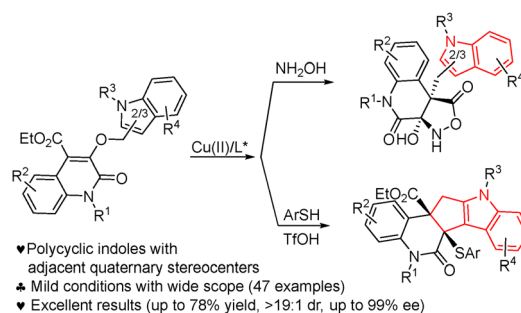
Jian Chen, Zhenhua Li, Zheng Li, Mengran Wang, Simin Li, Yangen Zhou* and Yanqing Lai



8403

Asymmetric synthesis of quinolinone-based polycyclic indoles through [1,3]-rearrangement/cyclization reaction

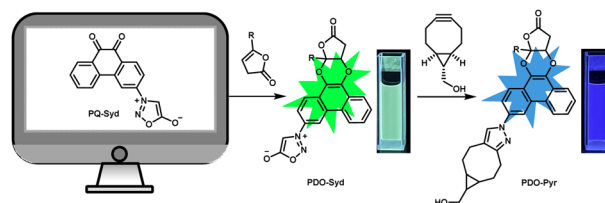
Fuxing Xu, Zongli Xiong, Wenling Qin,* Weijun Yao and Zhen Wang*



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DFT calculations guide the design of dual-responsive molecule 9,10-phenanthrenequinone-sydnone

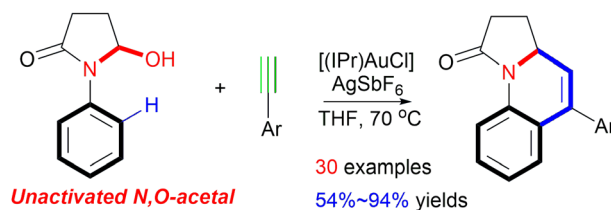
Cheng Tang, Wenyuan Xu, Yinghan Chen, Hongzhe Yu, Lixin Xu, Chun Zhang,* Yan Zhang* and Yong Liang*



8411

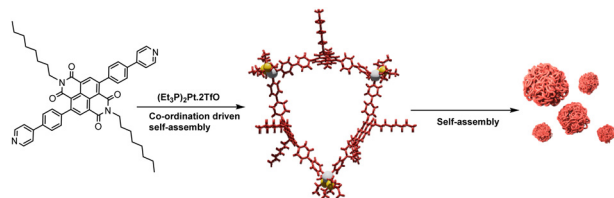
An [(IPr)AuCl]-catalyzed formal [4+2] process of *N*-Ar *N,O*-acetals with arylacetylenes for the construction of pyrrolo[1,2-*a*]quinolines

Xin Li, Nai-Xuan Liu, Jian-Ting Sun, Xiao-Di Nie, Chang-Mei Si* and Bang-Guo Wei*



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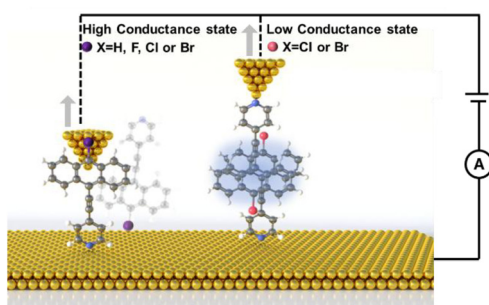
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A core-substituted naphthalene diimide-based supramolecular triangle and its self-assembly into nanostructures

Samantha T. Aragon, Edgar U. Lopez-Torres, Franchesca C. Tinacba, Camille J. Kwan, Joshua J. Do, Rosanna Jeas, Daniella S.A. Unpingco, Daniel J. Wherritt, Jon R. Parquette,* Peter J. Cragg* and Erendra Manandhar*

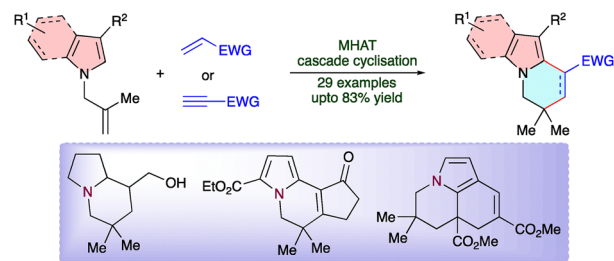
8419



Enhancing π - π stacking by a halogen substituent in a single-molecule junction

Yingjie Li, Siyu Yan, Meng Geng and Hongxiang Li*

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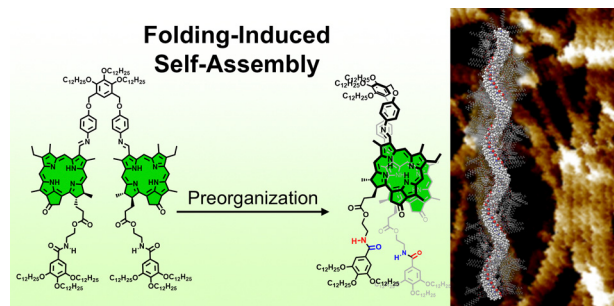


MHAT-enabled cascade radical annulation to access N-fused indoles and pyrroles

Santosh J. Gharpure,* Simran R. Narang and Rupali S. Chavan

- ★ Cascade annulation on heterocycles
- ★ Tricyclic & tetracyclic frameworks
- ★ Structures akin to Diels-Alder products
- ★ Scalable process

8427



Dimerization-enhanced aggregation of chlorophyll into helical supramolecular polymers

Ryo Kudo, Ryuichi Kawai, Sho Takamiya, Sougata Datta, Hiroki Hanayama, Nobuyuki Hara, Hitoshi Tamiaki and Shiki Yagai*

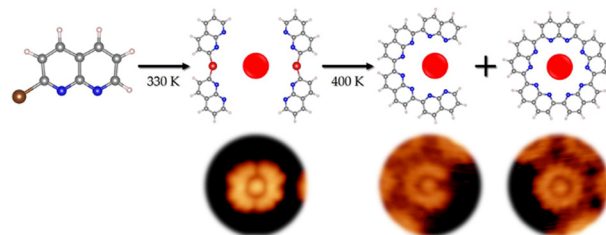


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Pathway regulation of an on-surface stepwise reaction through a metal coordination template

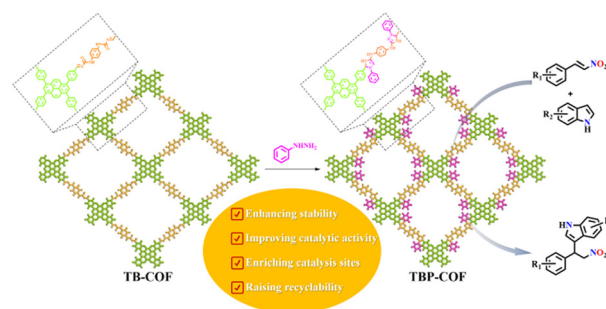
Runrui Pan, Zhiyu Wang, Xinxin Huang, Jin Xu, Ziliang Shi* and Tao Lin*



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A new class of ultrastable dual hydrogen-bond-donor COF for improving the reaction activity

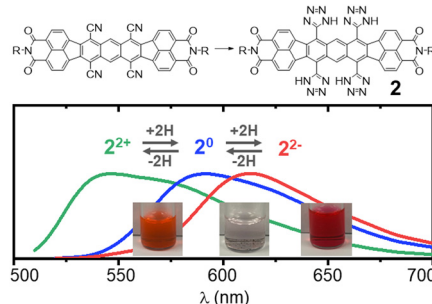
Hui-Chao Ma,* Ming-Zhe Li, Ling-Xu Zhang, Run-Min Wang, Jie Zou, Gong-Jun Chen* and Yu-Bin Dong



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Amphoteric tetrazole-substituted eleven-ring-fused acene derivatives with multiple fluorescent protonation states

Ying-Hsuan Liu, Cory Ruchlin, Heorhii V. Humeniuk and Dmytro. F. Perepichka*



8443

Two-step preparation of cyano-functionalized linkage-hybrid covalent organic frameworks for efficient H₂O₂ photosynthesis in air

Han Ren, Yuxuan Liu, Zhecheng Huang, Liecheng Guo and Feng Luo*

