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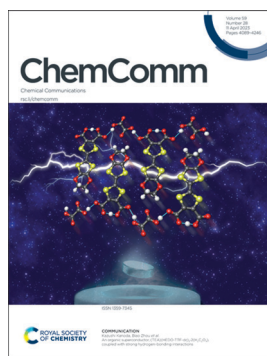
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ISSN 1359-7345 CODEN CHCOFS 59(28) 4089-4246 (2023)



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See Yongcan Guo, Ke Lv, Guoming Xie *et al.*, pp. 4158–4161. Image reproduced by permission of Guoming Xie from *Chem. Commun.*, 2023, 59, 4158.



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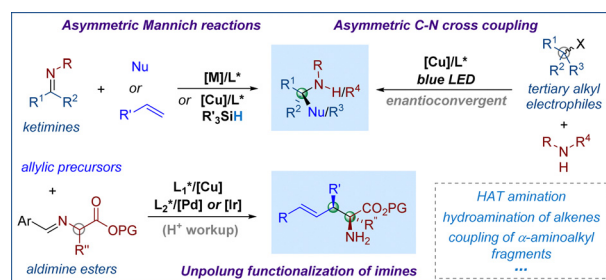
See Kazushi Kanoda, Biao Zhou *et al.*, pp. 4162–4165. Image reproduced by permission of Biao Zhou from *Chem. Commun.*, 2023, 59, 4162.

HIGHLIGHT

4099

Recent advances in the synthesis of chiral α -tertiary amines *via* transition-metal catalysis

Yongzhuo Xu, Jiajia Wang,* Guo-Jun Deng and Wen Shao*

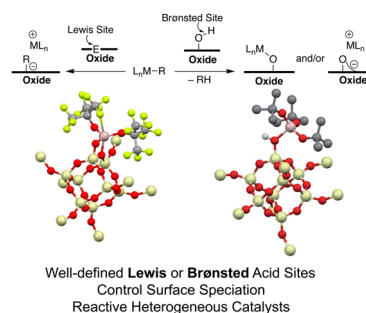


FEATURE ARTICLES

4115

Effects of surface acidity on the structure of organometallics supported on oxide surfaces

Kavyasri Priya K. Samudrala and Matthew P. Conley*



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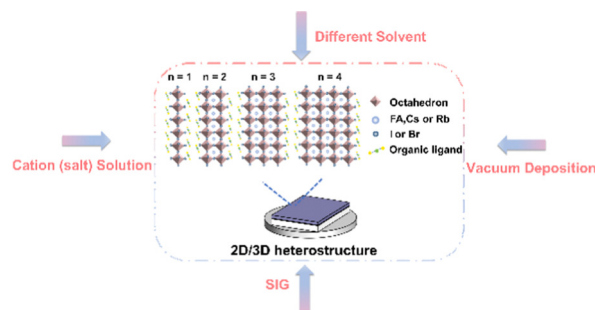


FEATURE ARTICLES

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Precise modulation strategies of 2D/3D perovskite heterojunctions in efficient and stable solar cells

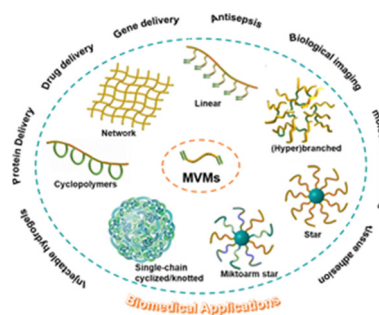
Qian Zhou, Baibai Liu, Xuxia Shai, Yuelong Li, Peng He,*
Hua Yu, Cong Chen,* Zong-Xiang Xu,* Dong Wei* and
Jiangzhao Chen*



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(Controlled) Free radical (co)polymerization of multivinyl monomers: strategies, topological structures and biomedical applications

Zhili Li, Haiyang Yong, Kaixuan Wang, Ya-Nan Zhou,
Jing Lyu,* Lirong Liang* and Dezhong Zhou*

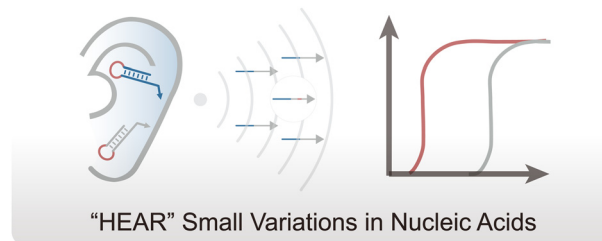


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A hairpin probe-mediated exponential amplification reaction for highly sensitive and specific detection of microRNAs

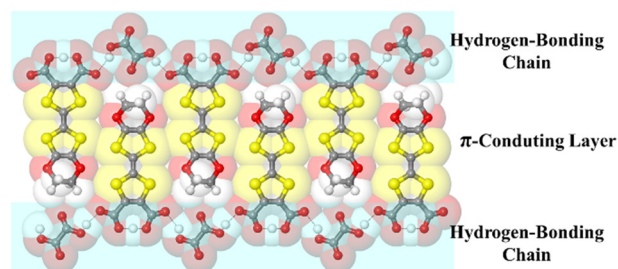
Hongyan Yu, Zhi Weng, Xi Zhou, Dan Bai, Wang Luo,
Xiaole Han, Lin Song, Qian Liu, Junjie Li, Yujun Yang,
Yongcan Guo,* Ke Lv* and Guoming Xie*



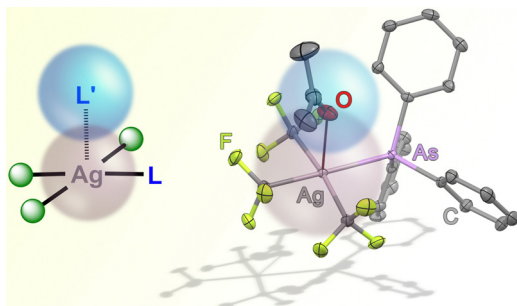
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An organic superconductor, (TEA)(HEDO-TTF-dc)₂·2(H₂C₂O₄), coupled with strong hydrogen-bonding interactions

Yuto Morimachi, Mizuki Urai, Ryota Nakajima,
Hajime Kamebuchi, Kazuya Miyagawa, Kazushi Kanoda*
and Biao Zhou*



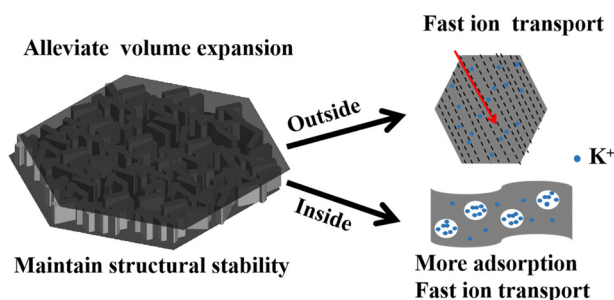
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Electrophilicity of neutral square-planar organosilver(III) compounds

Daniel Joven-Sancho, Luca Demonti, Antonio Martín, Nathalie Saffon-Merceron, Noel Nebra,* Miguel Baya and Babil Menjón*

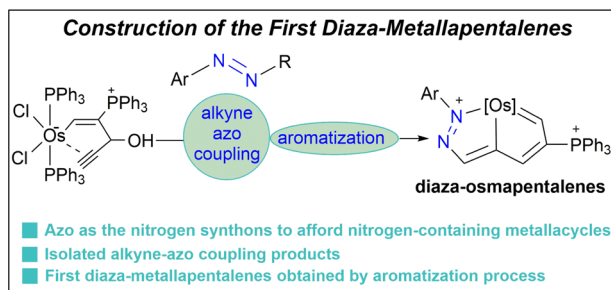
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Plastic-derived sandwich-like porous carbon nanosheet-supported hexagonal carbon micro-flakes for K-ion storage

Tianci Kong, Yong Qian, Yang Li, Ning Lin* and Yitai Qian*

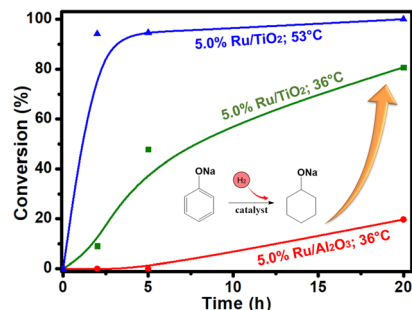
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Hetero-carbolong chemistry: experimental and theoretical studies of diaza-metallapentalenes

Zhenwei Chu, Jinhua Li, Yuhui Hua, Ming Luo, Dafa Chen* and Haiping Xia*

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Realizing room temperature catalytic hydrogenation of sodium phenoxide by Ru/TiO₂ for hydrogen storage

Khai Chen Tan, Qijun Pei, Jiafeng Yu, Hong Wen, Yang Yu, Jintao Wang, Nor Izzati Nordin, Teng He,* Yong Shen Chua* and Ping Chen

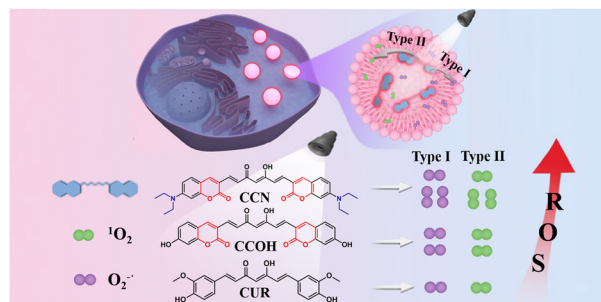


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Lipid droplet targeting-guided hypoxic photodynamic therapy with curcumin analogs

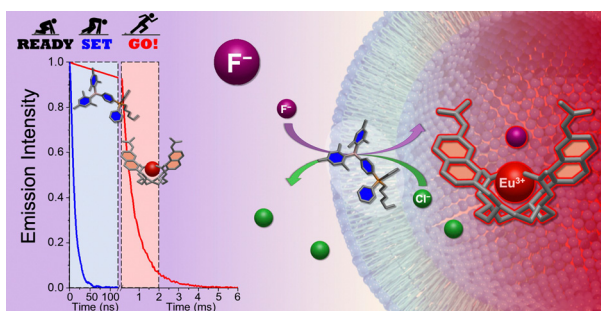
Xuwei Li, Weimin Liu,* Xiuli Zheng, Meiyu Jiang, Yimin Guo, Jie Sha, Jiasheng Wu, Haohui Ren, Honglei Gao, Shuai Wang and Pengfei Wang*



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Transmembrane transport of fluoride studied by time-resolved emission spectroscopy

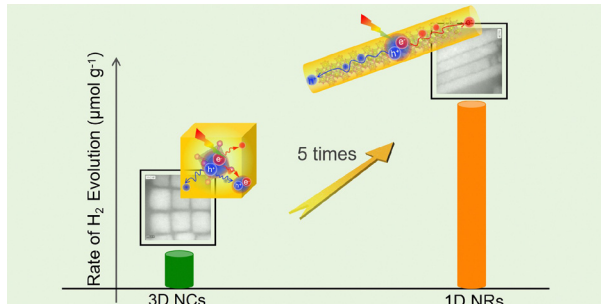
Alessio Cataldo, Matúš Chvojka, Gyeongjin Park, Vladimír Šindelář, François P. Gabbaï, Stephen J. Butler* and Hennie Valkenier*



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Enhanced hydrogen evolution activity of CsPbBr₃ nanocrystals achieved by dimensionality change

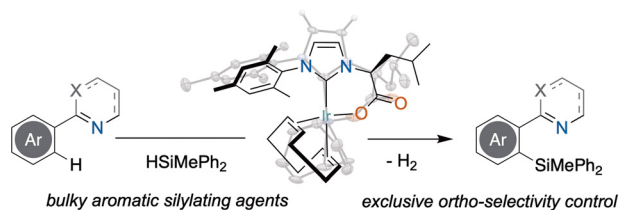
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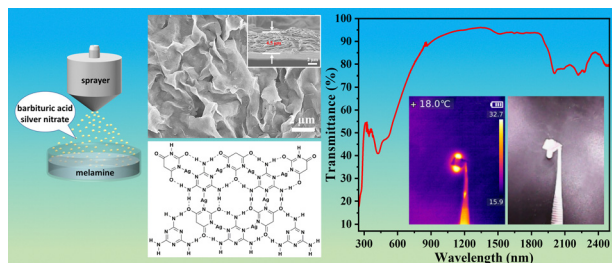
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Iridium(i) complexes with bidentate NHC ligands as catalysts for dehydrogenative directed C–H silylation

Romane Manguin, María Galiana-Cameo, Tanakorn Kittikool, Cécile Barthes, Jompol Thongpaen, Etienne Bancal, Sonia Mallet-Ladeira, Sirilata Yotphan, Ricardo Castarlenas, Marc Mauduit, Jean-Baptiste Sortais* and Olivier Baslé*



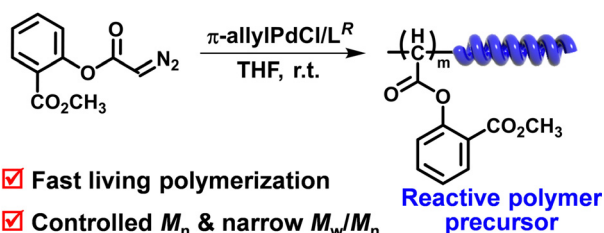
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Fabrication of a self-standing supramolecular membrane by a "soft spray" technique

Yonghua Jiao, Bingbing Chen,* Chaofan Zhong, Xiaojiao Hou, Yuanlin Fu, Fuqiang Fan, Tieqiang Wang and Yu Fu*

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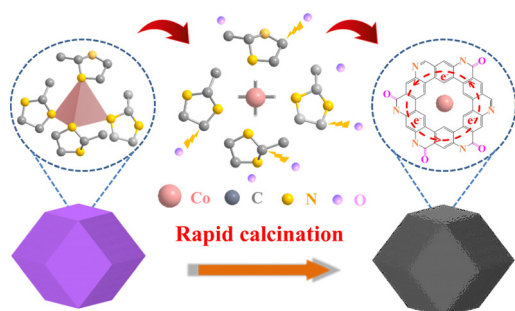


- ☑ Fast living polymerization
- ☑ Controlled M_n & narrow M_w/M_n
- ☑ Helix-sense-selective polymerization
- ☑ Efficient postpolymerization modification

Facile preparation of optically active helical polycarbenes with salicylate substituents and their postpolymerization modification

Hui Zou,* Shan Tai, Shu-Yang Zhao, Li Zhou, Na Liu* and Zong-Quan Wu*

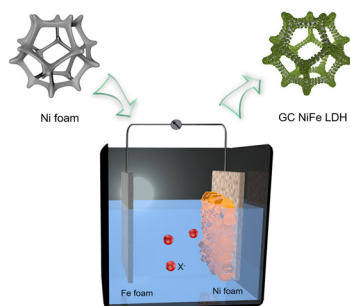
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Highly efficient utilization of sodium storage sites for MOF-derived carbon by rapid carbonization

Hanqing Zhao,* Gaobo Chang, Yaoyao Wang, Dan Zhao and Zhong Li*

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Facile method to activate substrate for oxygen evolution by a galvanic-cell reaction

Derun Li, Chenglin Zhong, Xiao-Lei Huo,* Feng Ren* and Qingwen Zhou*

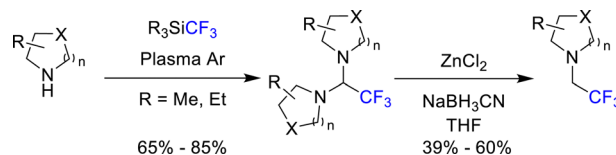


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Synthesis of trifluoromethyl *N,N*-aminals from nitrogen containing heterocycles by using a plasma flow microreactor

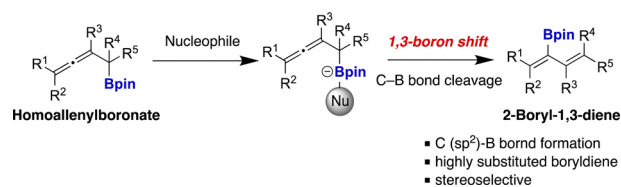
Elias Abedelnour, Stephanie Ognier,* Olivier Venier, Laurent Schio, Michael Tatouliau and Janine Cossy*



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A 1,3-boron shift reaction of homoallenylboronates to synthesise 2-boryl-1,3-dienes

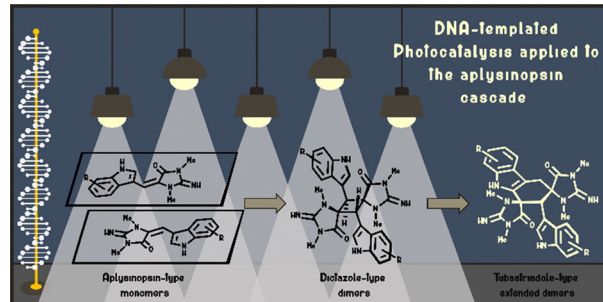
Ryota Sakamoto, Minami Odagi, Masahiro Yamanaka* and Kazuo Nagasawa*



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Expanding the 'aplysinospin cascade' through DNA-templated [2+2] photocycloaddition

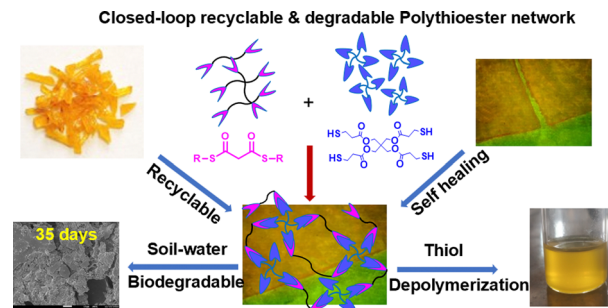
Samuel Oger, Nicolas Duchemin, Yara Mayssa Bendiab, Nicolas Birlirakis, Adam Skiredj, Somia Rharrabti, Jean-Christophe Jullian, Erwan Poupon,* Michael Smietana,* Stellios Arseniyadis* and Laurent Evanno*



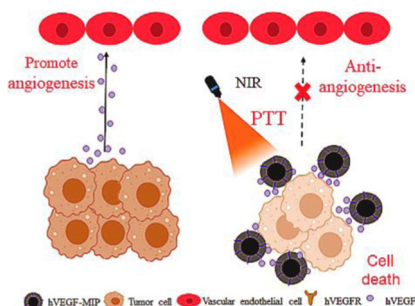
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Closed-loop recyclable and biodegradable thioester-based covalent adaptable networks

Pralay Ranjan Maity, Chandan Upadhyay, A. S. K. Sinha and Umapasana Ojha*



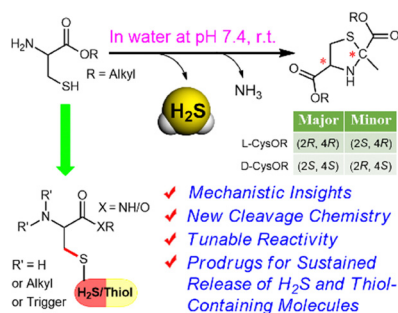
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A human VEGF magnetic molecularly imprinted polymer for drug-free anti-angiogenesis and photothermal therapy of tumors

Mengzhao Wen, Haizhu Shi, Yu Wan, Jiateng Wu, Xiao Tian, Qian Chen, Ming-Yu Wu* and Shun Feng*

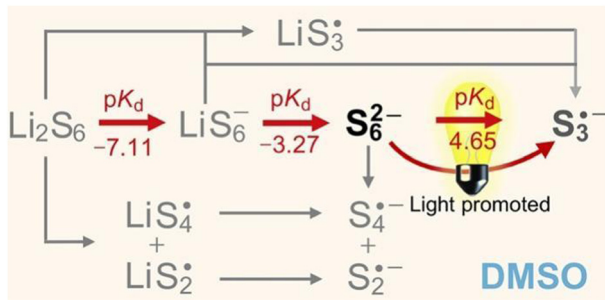
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Insights into self-degradation of cysteine esters and amides under physiological conditions yield new cleavable chemistry

Xueying Kang, Haishun Ye, Shanshan Liu, Xiaoqiang Tu, Jiqin Zhu, Hongyan Sun and Long Yi*

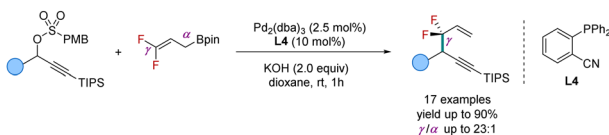
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Unveiling light effect on formation of trisulfur radicals in lithium-sulfur batteries

Bohai Zhang, Zhenyu Wang, Huifu Ji, Hao Zhang, Lanlan Li, Jiandong Hu, Shixin Li and Junfeng Wu*

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Palladium-catalyzed highly selective gem-difluoroallylation of propargyl sulfonates with gem-difluoroallylboron

Hao-Wen Li, Yun-Cheng Luo, Ling-Chao Yu and Xingang Zhang*

