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ISSN 1359-7345 CODEN CHCOFS 60(59) 7513-7652 (2024)



Cover

See Marcus W. Drover *et al.*, pp. 7566-7569.
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HIGHLIGHTS

7523

Electrocatalytic water-to-oxygenates conversion: redox-mediated *versus* direct oxygen transfer

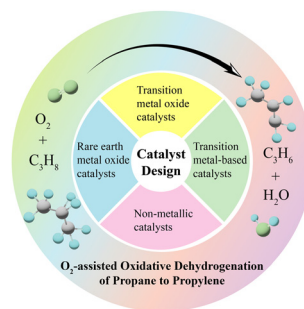
Bing-Liang Leng, Xiu Lin, Jie-Sheng Chen and Xin-Hao Li*



7535

Catalyst development for O₂-assisted oxidative dehydrogenation of propane to propylene

Huimin Liu,* Shaoyuan Sun, Dezheng Li and Yiming Lei*



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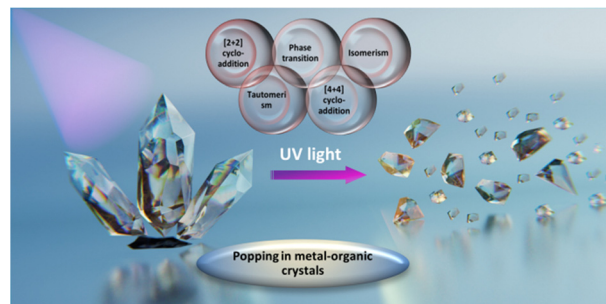
**Fundamental questions
Elemental answers**

FEATURE ARTICLE

7555

Photomechanical properties in metal–organic crystals

Samim Khan* and Mohammad Hedayetullah Mir*

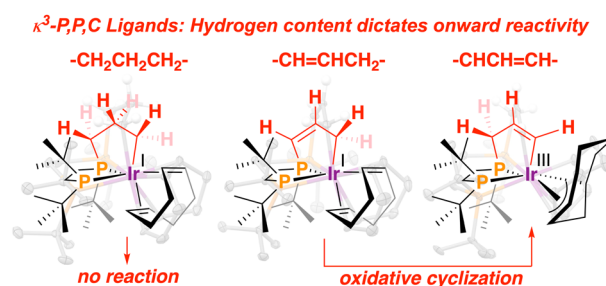


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7566

Tridentate κ^3 -*P,P,C* iridium complexes: influence of ligand saturation on intramolecular C–H bond activation

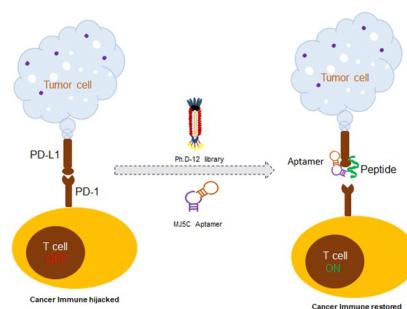
Mitchell J. Demchuk, Joseph A. Zurakowski and Marcus W. Drover*



7570

Aptamer-assisted phage display: enhancing checkpoint inhibition with a peptide and an aptamer targeting distinct sites on a single PD-L1 protein

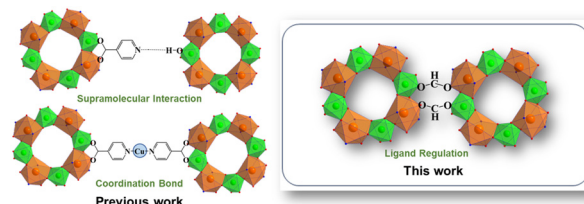
Satya Prakash Arya, Siddhartha Kalpa Samadhi Thennakoon, Chien Minh Tran Phuoc, Achut Prasad Silwal, Raunak Jahan, Rick Mason Postema, Hari Timilsina, Andrew Michael Reynolds and Xiaohong Tan*



7574

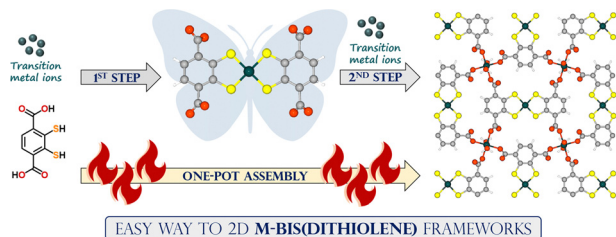
Synthesis and photoluminescence properties of polymer chains based on pre-designed heterometallic Al_4Ln_4 molecular rings

Qian-Ru Sun, Dan Luo, Yaokang Lv, Wei-Hui Fang* and Jian Zhang*



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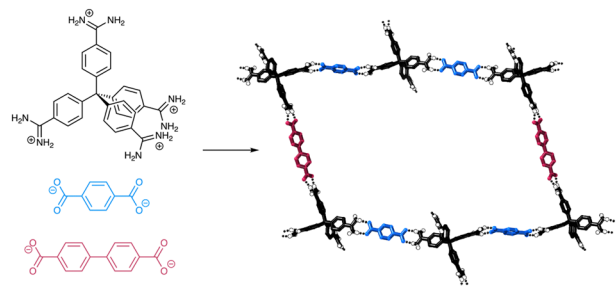
7578



2D metal–organic frameworks bearing butterfly-shaped metal-bis(dithiolene) linkers from dithiol-functionalized benzenedicarboxylic acid

Hao Zhong, Zhixin Jiang, Jieying Hu, Lai-Hon Chung* and Jun He*

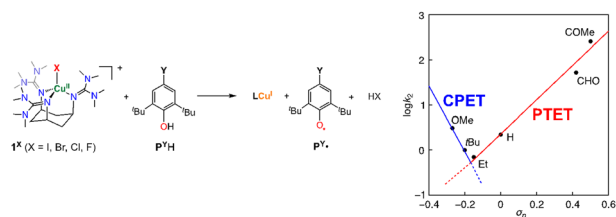
7582



A three-component hydrogen bonded framework

Phonlakrit Muang-Non, Meabh K. S. Perry-Britton, Lauren K. Macreadie and Nicholas G. White*

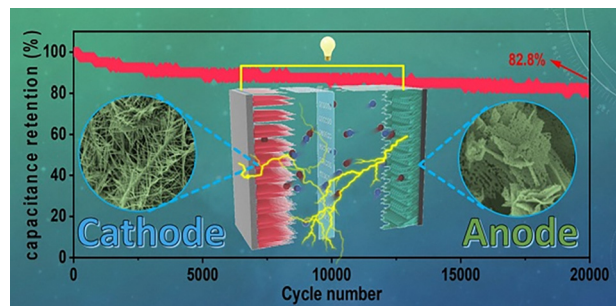
7586



Oxidation mechanism of phenols by copper(II)–halide complexes

Lan Yang, Rin Ito, Hideki Sugimoto, Yuma Morimoto and Shinobu Itoh*

7590



Porous VN nanosheet arrays on MXene carbon fibers for flexible supercapacitors

Deyang Zhang,* Di Wang, Binhe Feng, Jinbing Cheng,* Hailong Yan, Jin Chang, Zhaorui Wang, Paul K. Chu and Yongsong Luo*

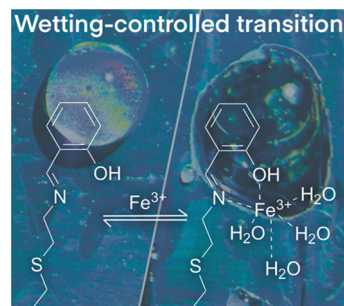


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Inverse opals with reactive surface chemistry as sensors for aqueous pollutants

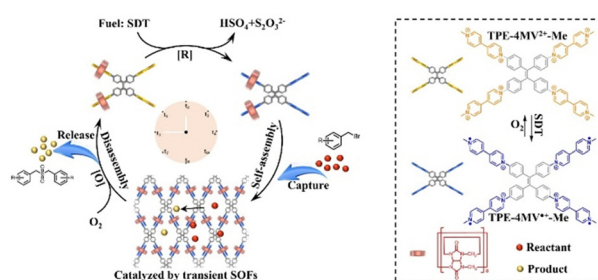
Giulia Magnabosco, Maria Ochs, Natalie Bonakdar, Laura Czerwenka, Annette Andrieu-Brunsen* and Nicolas Vogel*



7598

Chemical fuel-driven transient 2D supramolecular organic frameworks (SOFs): catalysis for green synthesis

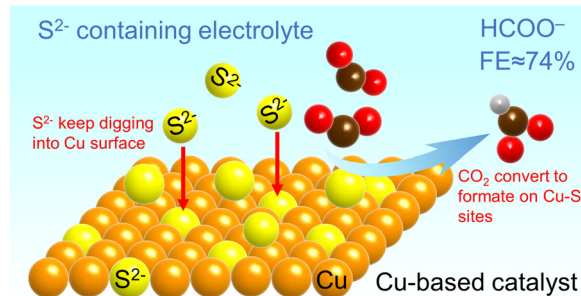
Hongzhi Du, Mingyu Zhao, Xianhua Lang,* Xiangyang Li* and Hui Zhao*



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Selective CO₂ electroreduction to formate over a Cu-based catalyst in S²⁻-containing electrolyte

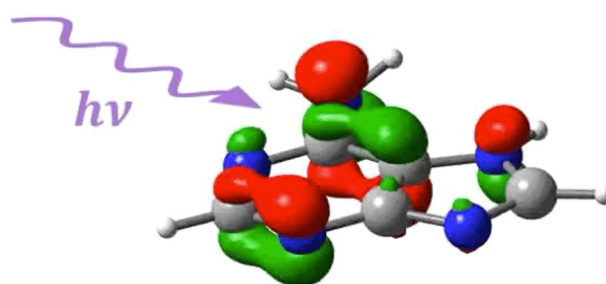
Shuyu Liang, Ziyi Fang, Chaoran Yang and Qiang Wang*



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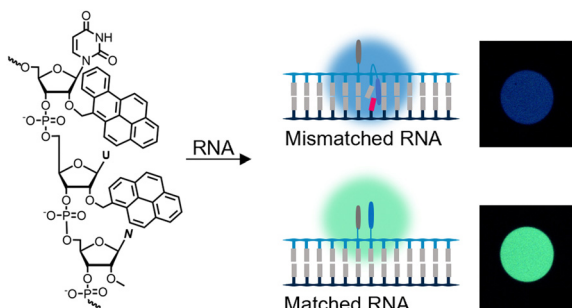
Evaluating the interactions between vibrational modes and electronic transitions using frontier orbital energy derivatives

Lisa A. Schröder, Harry L. Anderson and Igor Rončević*



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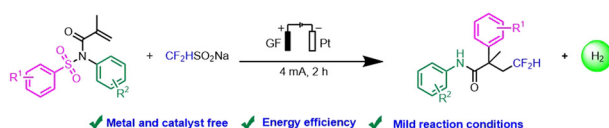
7610



Ratiometric sandwich-type assays for RNAs with a point mutation using benzo[a]pyrene-modified probes

Yu Watari, Kaito Nakatani, Kentaro Kobata, Kazuya Matsuo, Tomonori Waku and Akio Kobori*

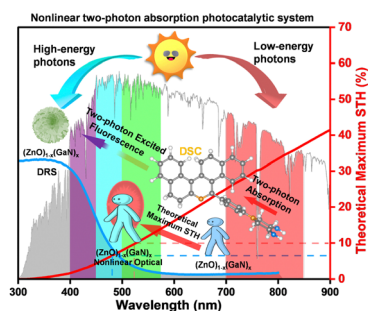
7614



Electrochemical synthesis of β-difluoromethylamide compounds by *N*-benzenesulfonylacrylamide with difluorine reagents

Zhi-Long Lei, Zong-Cang Ding, Shu-Hui Li,* Fei-Hu Cui,* Hai-Tao Tang and Ying-Ming Pan*

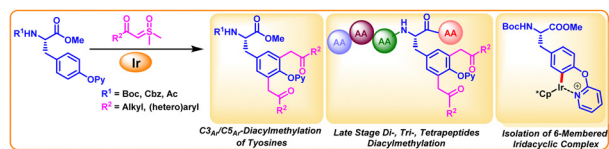
7618



Integration of nonlinear two-photon excited fluorescence and photocatalysis boosts overall water splitting performance

Tengfei Ding, Yaqin Li, Yong Jiang, Shengli Li, Yuxue Wei, Mengdie Cai, Fang Chen, Lisheng Guo and Song Sun*

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Iridium-catalyzed diacylmethylation of tyrosine and its peptides with sulfoxonium ylides

Narendra Dinkar Kharat, Sushma Naharwal, Siva S. Panda, Kiran Bajaj* and Rajeev Sakhuja*

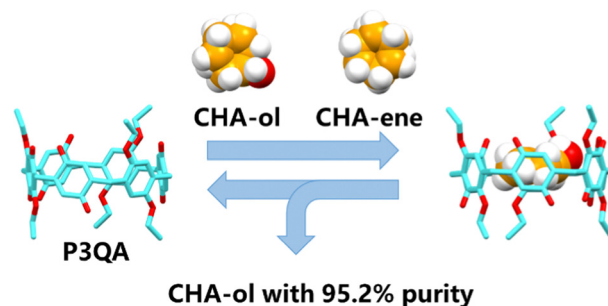


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Separation of cyclohexanol from cyclohexanol/cyclohexene mixtures by crystals of pillar[6]arene containing three benzoquinone units

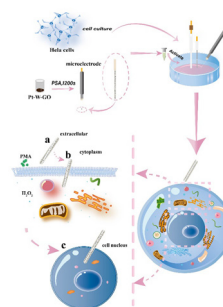
Rui Liu, Ming Li,* Zhongwen Liu and Bin Hua*



7630

Sensitive subcellular scale and real-time detection of hydrogen peroxide by a W-doped Pt microelectrode

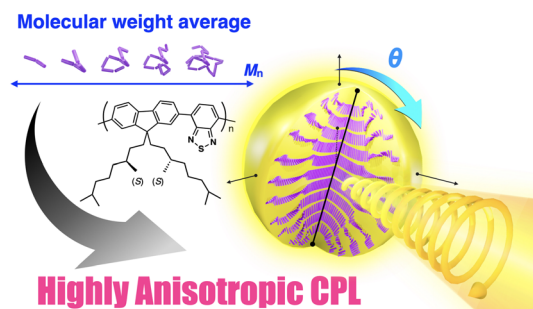
Shaohui Lei, Zhuo Zou, Kangling Tian, Yan Zheng, Mei Ding, Guangxuan Hu, Hong Bin Yang, Chunxian Guo, Changming Li* and Fang Xin Hu*



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Near-unity angular anisotropy of circularly polarized luminescence from microspheres of monodispersed chiral conjugated polymers

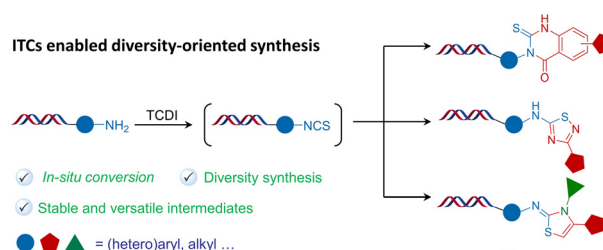
Sota Nakayama, Hiroshi Yamagishi,* Osamu Oki, Soh Kushida, Junhui Chen, Junpei Kuwabara, Takaki Kanbara, Wijk Yospanya, Reiko Oda and Yohei Yamamoto*



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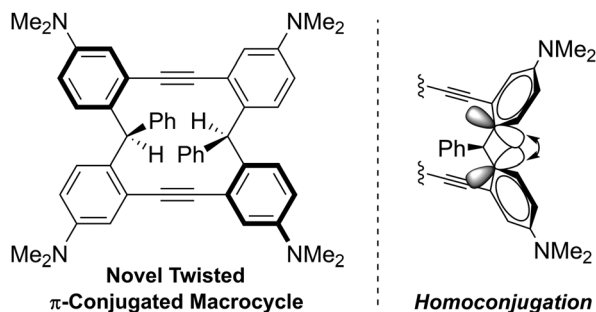
Isothiocyanate intermediates facilitate divergent synthesis of N-heterocycles for DNA-encoded libraries

Huihong Wang, Teng Chen, Xiaohong Fan, Yangfeng Li, Wei Fang,* Gong Zhang* and Yizhou Li*



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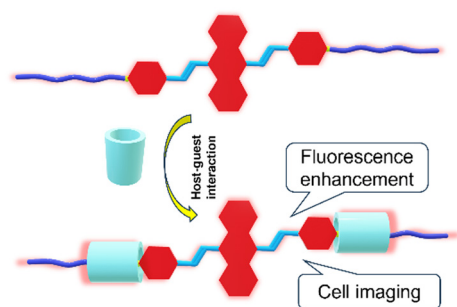
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Synthesis of a novel twisted π -conjugated macrocycle *via* double Friedel–Crafts reaction and its physical properties

Zhiyan Jiang and Yoichiro Kuninobu*

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Fluorescence-enhanced supra-amphiphiles based on pillar[5]arene: construction, controllable self-assembly and application in cell imaging

Lizhen Fang, Yu Dai, Yiqiao Bai, Yujia Meng, Wenqiang Yu, Yunhan Gao, Ruowen Tang, Yue Zhang, Liang Li,* Jin Wang, Yue Ding, Yang Wang, Tingting Chen, Yan Cai and Yong Yao*

