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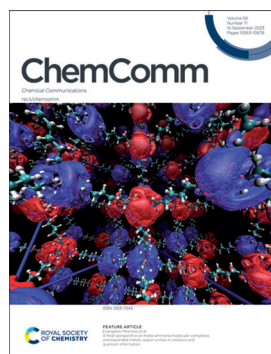
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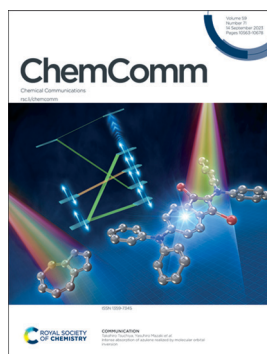
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ISSN 1359-7345 CODEN CHCOFS 59(71) 10563-10678 (2023)



Cover

See Evangelos Miliordos *et al.*, pp. 10572–10587. Image reproduced by permission of Evangelos Miliordos from *Chem. Commun.*, 2023, 59, 10572.



Inside cover

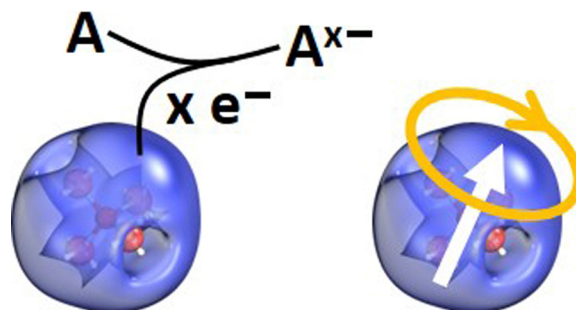
See Takahiro Tsuchiya, Yasuhiro Mazaki *et al.*, pp. 10604–10607. Image reproduced by permission of Takahiro Tsuchiya from *Chem. Commun.*, 2023, 59, 10604.

FEATURE ARTICLES

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A fresh perspective on metal ammonia molecular complexes and expanded metals: opportunities in catalysis and quantum information

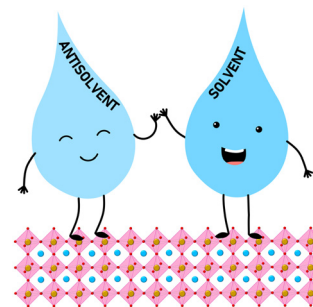
Benjamin A. Jackson, Shahriar N. Khan and Evangelos Miliordos*



10588

Solvent–antisolvent interactions in metal halide perovskites

Jose Roberto Bautista-Quijano, Oscar Telschow, Fabian Paulus and Yana Vaynzof*



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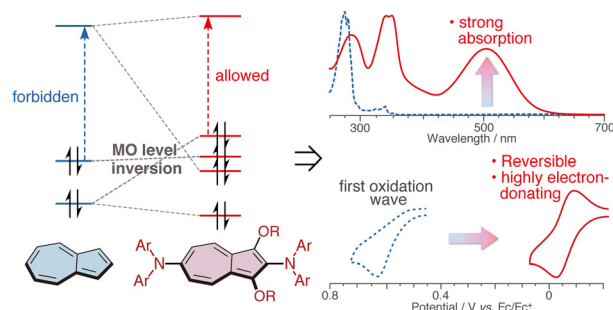
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Intense absorption of azulene realized by molecular orbital inversion

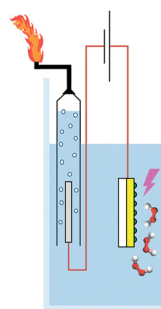
Takahiro Tsuchiya,* Tomohiro Hamano, Masahiro Inoue, Tomoya Nakamura, Atsushi Wakamiya and Yasuhiro Mazaki*



10608

Towards the quantification of the chemical mechanism of light-driven water splitting on GaN photoelectrodes

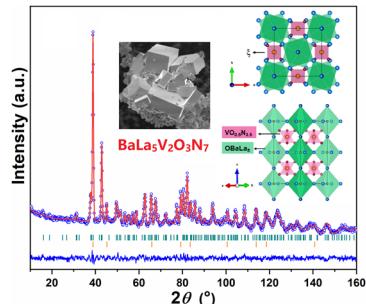
Artem Shushanian, Daisuke Iida, Yu Han and Kazuhiro Ohkawa*



10612

BaLa₅V₂O₃N₇: a novel anti-perovskite oxynitride for electrode applications

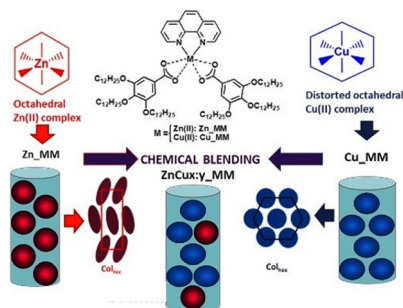
Shi-Rui Zhang, Xiao-Ming Wang,* Lei-Ming Fang, Jia-Chen Li, Ying-Ying Xu, Zi-Han Ren, Zu-Pei Yang, Xiao-Jun Kuang* and Huan Jiao*



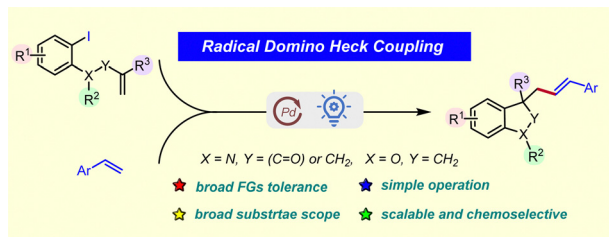
10616

Bimetallic liquid crystal blends based on structurally related 3d-metal coordination complexes

Carmen Cretu, Evelyn Popa, Giuseppe Di Maio, Angela Candrea, Ildiko Buta, Alexandru Visan, Massimo La Deda, Bertrand Donnio* and Elisabeta I. Szerb*



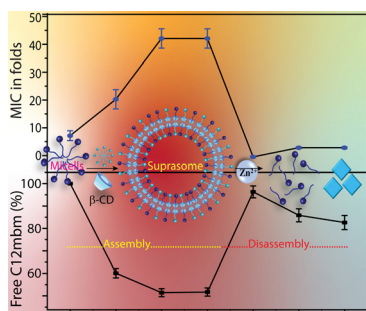
10620



Photoinduced radical cascade domino Heck coupling of *N*-aryl acrylamide with vinyl arenes enabled by palladium catalysis

Pei-shang Li, Qiao-qiao Teng* and Ming Chen*

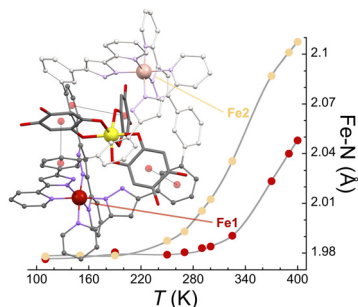
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Stimuli-responsive assembly and disassembly of anionic suprasomes with tunable antibacterial activity

Biswa Mohan Prusty, Rama Karn, Anjali Patel, Priyanka Mazumder, Sachin Kumar and Debasis Manna*

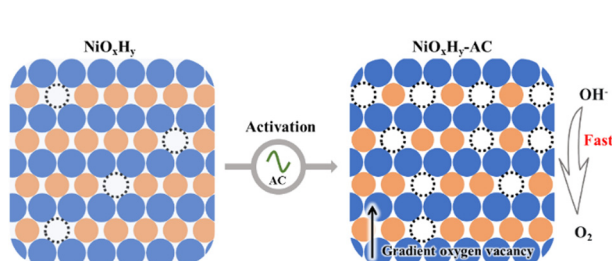
10628



A supramolecular helicate with two independent Fe(II) switchable centres and a $[Fe(\text{anilate})_3]^{3-}$ guest

Leoní A. Barrios*, Simon. J. Teat, Olivier Roubeau* and Guillem Aromí*

10632



Symmetrical-waveform alternating current-promoted NiO_xH_y electrocatalysis for the oxygen evolution reaction

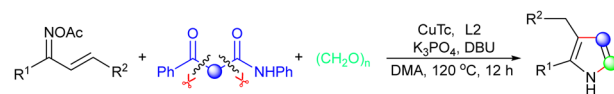
Zhihao Qi, Jinwei Zhuang, Wantong Yang, Yonggang Yang, Ling Wang, Chenyang Cai, Zhilin Zhang, Yutao Hua, Dilnur Abdirazik, Longhua Li, Weidong Shi* and Jinhui Hao*



10636

Copper-catalyzed three-component annulation toward pyrroles via the cleavage of two C–C bonds in 1,3-dicarbonyls

Gaochen Xu, Luchao Li, Binyan Xu, Zheng Fang, Jindian Duan* and Kai Guo

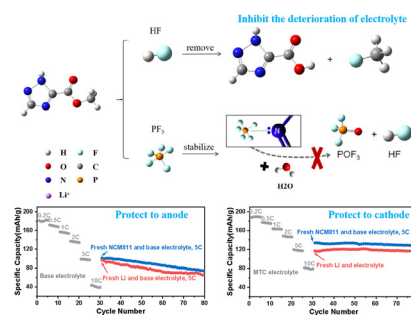


- Broad substrate scope
- Two C–C bonds cleavage
- 1,3-Dicarbonyl directly as a single-carbon synthon

10640

Multifunctional electrolyte additive for realizing high-temperature and high-voltage lithium metal batteries

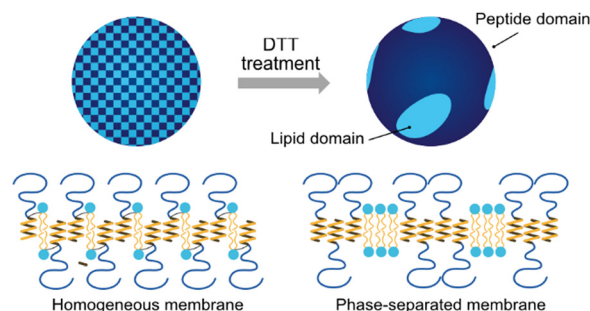
Erlei Zhang, Huijie Tian, Meng Li, Shiru Le, Lijun Wu, Bingjiang Li, Lishuang Fan* and Naiqing Zhang*



10644

Peptide–lipid hybrid vesicles with stimuli-responsive phase separation for controlled membrane functions

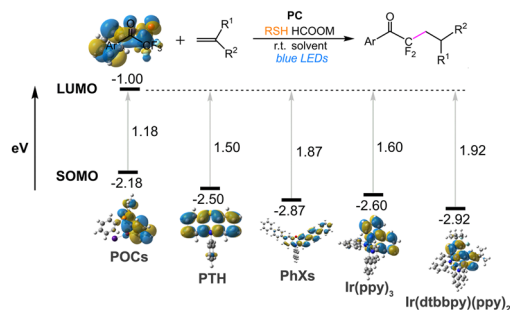
Avanashiappan Nandakumar, Yoshihiro Ito and Motoki Ueda*



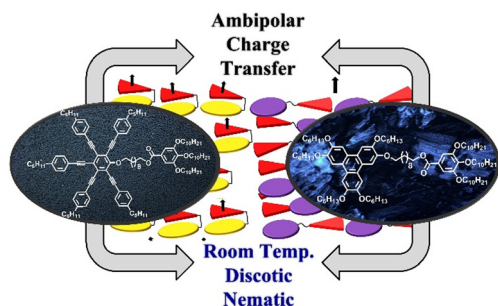
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Photocatalytic C–F alkylation of trifluoromethyls using *o*-phosphinophenolate: mechanistic insights and substrate prediction

Rongrong Li, Xinzheng Yang* and Wei Guan*



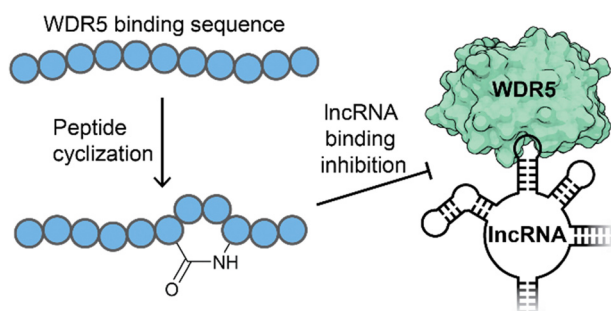
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First examples of room-temperature discotic nematic liquid crystals exhibiting ambipolar charge carrier mobilities

Monika Gupta,* Abhinand Krishna KM, Simran Sony, Shallu Dhingra, Asmita Shah and Dharmendra Pratap Singh

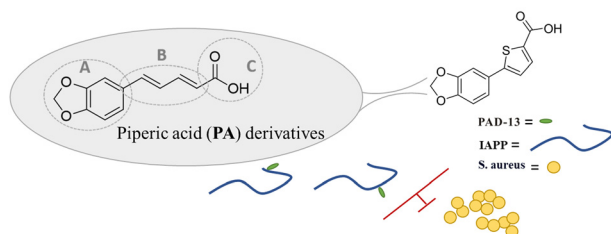
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Macrocyclic peptides as inhibitors of WDR5–IncRNA interactions

Jen-Yao Chang, Cora Neugebauer, Stefan Schmeing, Gulshan Amrahova and Peter 't Hart*

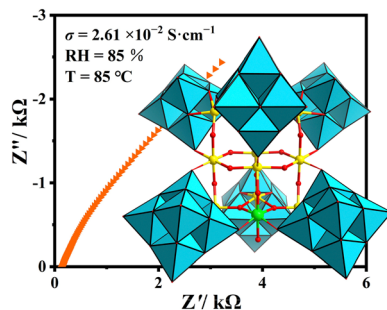
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Piperic acid derivative as a molecular modulator to accelerate the IAPP aggregation process and alter its antimicrobial activity

Ai-Ci Chan, Pei-Ya Shan, Men-Hsin Wu, Pin-Han Lin, Chang-Shun Tsai, Chia-Chien Hsu, Ting-Hsiang Chiu, Ting-Wei Hsu, Yi-Cheun Yeh, Yun-Ju Lai,* Wei-Min Liu* and Ling-Hsien Tu*

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Hexameric polyoxotantalate with proton conduction properties

Hanhan Chen, Mingyang Zhang, Yuyan Li, Pengtao Ma, Jingping Wang* and Jingyang Niu*

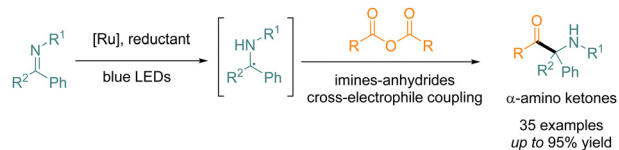


COMMUNICATIONS

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Visible-light induced cross-electrophile coupling of imines and anhydrides to synthesize α -amino ketones

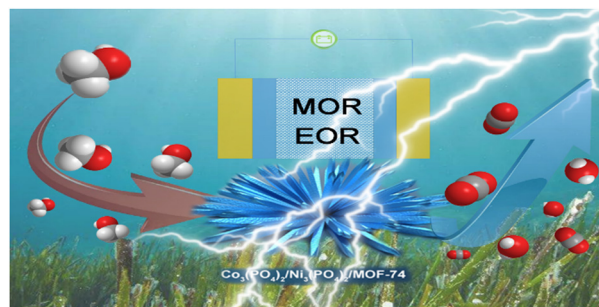
Renxu Cao, Yu Liu, Xiaoxin Shi* and Jun Zheng*



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Seaweed-like phosphates/MOF heterostructures as a synergistic electrocatalyst for alcohol oxidation

Ya-Ya Sun, Jia-Yang Luo, Xue-Qian Wu,* Ya-Pan Wu, Shuang Li, Ya-Meng Yin, Hui-Juan Ma, Ruan Chi and Dong-Sheng Li*



RETRACTION

10676

Retraction: Achieving near-Pt hydrogen production on defect nanocarbon *via* the synergy between carbon defects and heteroatoms

Hao Wu* and Yuting Luan

