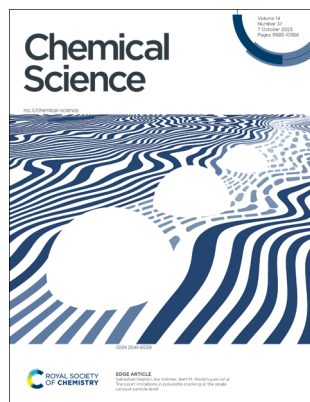


IN THIS ISSUE

ISSN 2041-6539 CODEN CSHCBM 14(37) 9983–10366 (2023)



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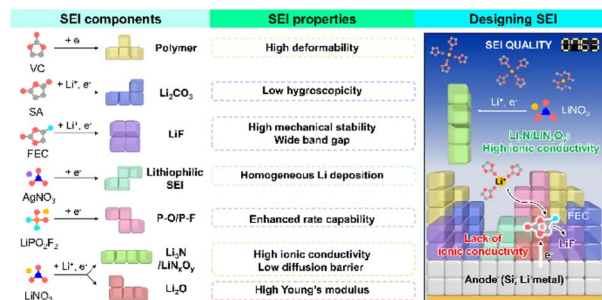
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REVIEWS

9996

Liquid electrolyte chemistries for solid electrolyte interphase construction on silicon and lithium-metal anodes

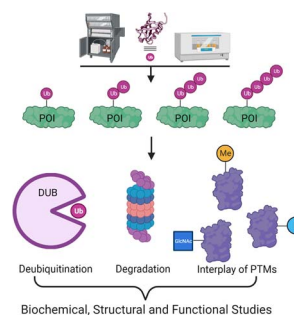
Sewon Park, Saehun Kim, Jeong-A. Lee, Makoto Ue and Nam-Soon Choi*



10025

Synthesis of ubiquitinated proteins for biochemical and functional analysis

Julia Kriegesmann and Ashraf Brik*



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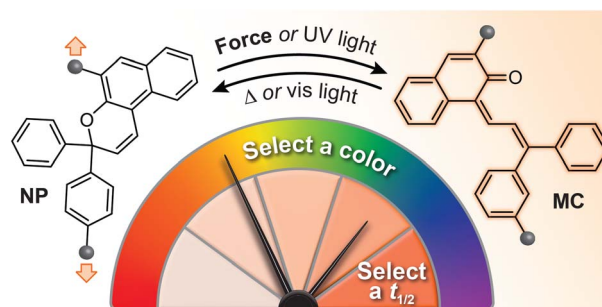


PERSPECTIVE

10041

Naphthopyran molecular switches and their emergent mechanochemical reactivity

Molly E. McFadden, Ross W. Barber, Anna C. Overholts and Maxwell J. Robb*

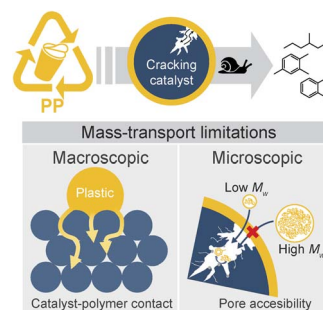


EDGE ARTICLES

10068

Transport limitations in polyolefin cracking at the single catalyst particle level

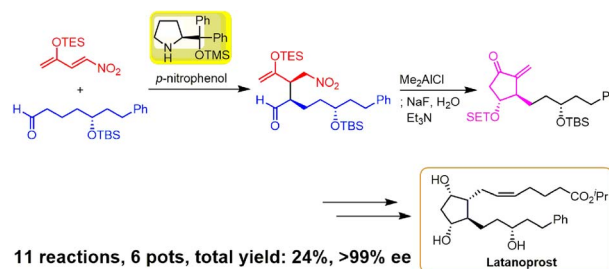
Sebastian Rejman, Ina Vollmer,* Maximilian J. Werny, Eelco T. C. Vogt, Florian Meirer and Bert M. Weckhuysen*



10081

Organocatalyst-mediated, pot-economical total synthesis of latanoprost

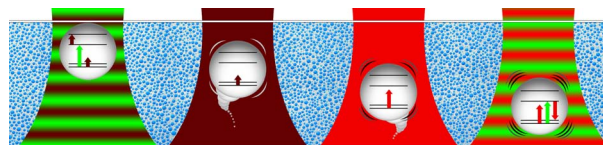
Genki Kawauchi, Yurina Suga, Shunsuke Toda and Yujiro Hayashi*



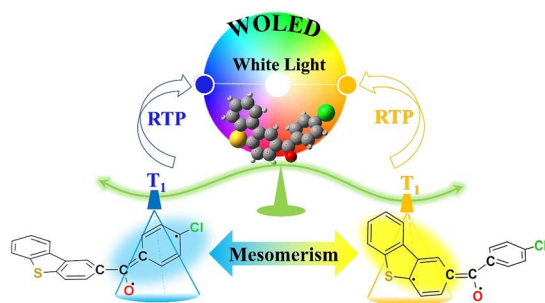
10087

Gaining control on optical force by the stimulated-emission resonance effect

Tetsuhiro Kudo,* Boris Louis, Hikaru Sotome, Jui-Kai Chen, Syoji Ito,* Hiroshi Miyasaka, Hiroshi Masuhara,* Johan Hofkens* and Roger Bresolí-Obach*



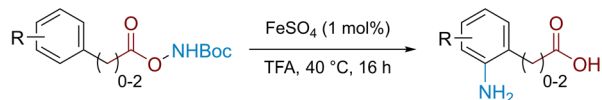
10096



Mesomerism induced temperature-dependent multicomponent phosphorescence emissions in CIBDBT

Zexing Qu,^{*} Yujie Guo, Jilong Zhang^{*} and Zhongjun Zhou^{*}

10103

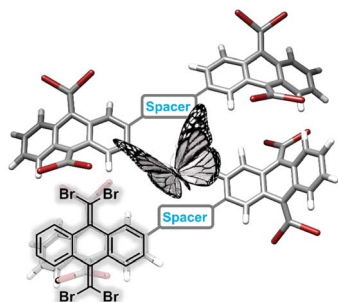


- Simple and practical conditions leading to unprotected anthranilic acids
 - Highly *ortho*-selective
- No precious metal catalysts or bespoke directing groups
 - Effective on various chain lengths
 - Detailed mechanistic studies performed

Ortho-Selective amination of arene carboxylic acids via rearrangement of acyl *O*-hydroxylamines

James E. Gillespie, Nelson Y. S. Lam and Robert J. Phipps^{*}

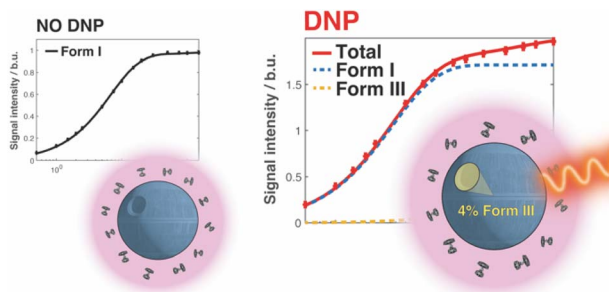
10112



Dimeric tetrabromo-*p*-quinodimethanes: synthesis and structural/electronic properties

Diego J. Vicent, Manuel Pérez-Escribano, Abel Cárdenas-Valdivia, Ana Barragán, Joaquín Calbo, José I. Urgel, David Écija,^{*} José Santos,^{*} Juan Casado,^{*} Enrique Orti^{*} and Nazario Martín^{*}

10121



Exploiting solid-state dynamic nuclear polarization NMR spectroscopy to establish the spatial distribution of polymorphic phases in a solid material

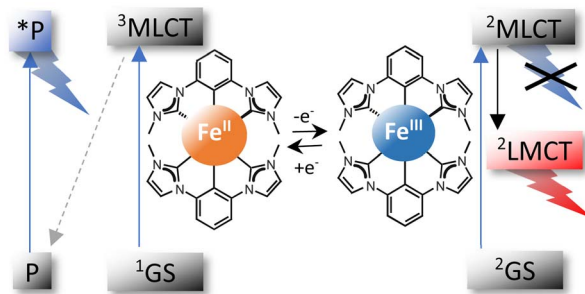
Samuel F. Cousin, Colan E. Hughes, Fabio Ziarelli, Stéphane Viel, Giulia Mollica,^{*} Kenneth D. M. Harris,^{*} Arthur C. Pinon^{*} and Pierre Thureau^{*}



10129

Ferrous and ferric complexes with cyclometalating N-heterocyclic carbene ligands: a case of dual emission revisited

Catherine Ellen Johnson, Jesper Schwarz, Mawuli Deegbey, Om Prakash, Kumkum Sharma, Ping Huang, Tore Ericsson, Lennart Häggström, Jesper Bendix, Arvind Kumar Gupta, Elena Jakubikova,* Kenneth Wärnmark* and Reiner Lomoth*

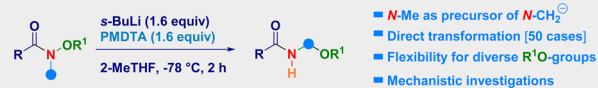


10140

Base-mediated homologative rearrangement of nitrogen–oxygen bonds of N-methyl-N-oxyamides

Monika Malik, Raffaele Senatore, Thierry Langer, Wolfgang Holzer and Vittorio Pace*

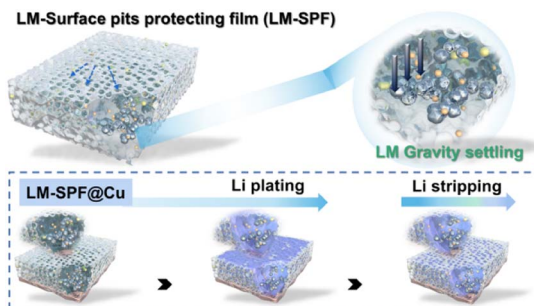
Direct homologation of N–O bond without an external C1-source



10147

A liquid metal-fluoropolymer artificial protective film enables robust lithium metal batteries at sub-zero temperatures

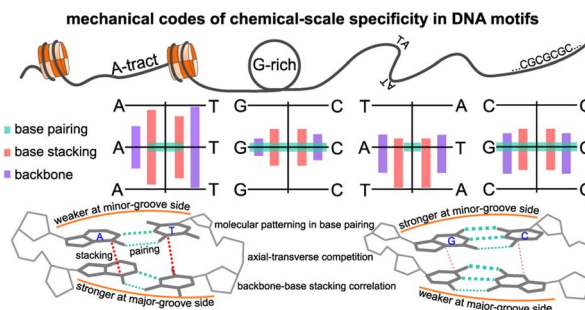
Hongbao Li, Rong Hua, Yang Xu, Da Ke, Chenyu Yang, Quanwei Ma, Longhai Zhang, Tengfei Zhou* and Chaofeng Zhang*



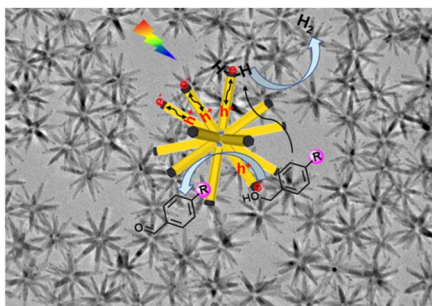
10155

Mechanical codes of chemical-scale specificity in DNA motifs

Yi-Tsao Chen, Haw Yang and Jih-Wei Chu*



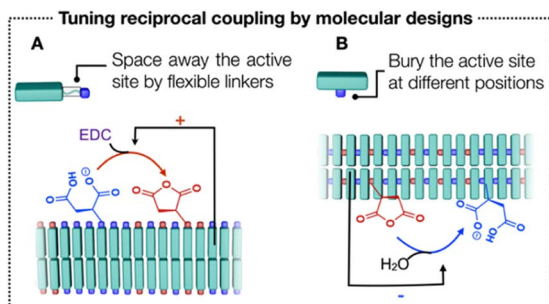
10167



Versatile synthesis of nano-icosapods via cation exchange for effective photocatalytic conversion of biomass-relevant alcohols

Dan Xu, Li Zhai, Zhangyan Mu, Chen-Lei Tao, Feiyue Ge, Han Zhang, Mengning Ding, Fang Cheng* and Xue-Jun Wu*

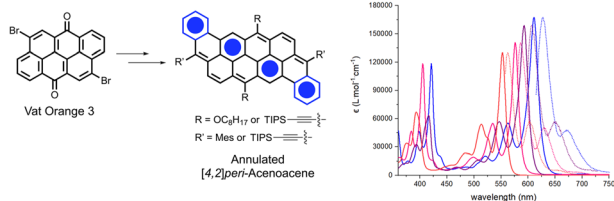
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Design rules for reciprocal coupling in chemically fueled assembly

Xiaoyao Chen, Brigitte A. K. Kriebisch, Alexander M. Bergmann and Job Boekhoven*

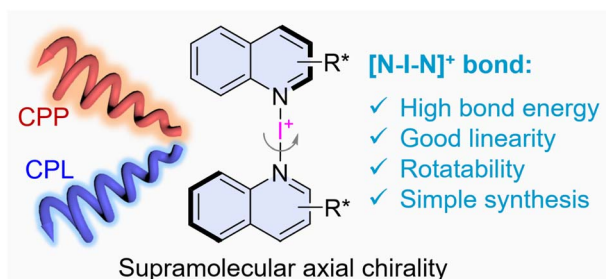
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Dibenzannulated *peri*-acenoacenes from anthanthrene derivatives

Frédéric Lirette, Ali Darvish, Zheng Zhou, Zheng Wei, Lukas Renn, Marina A. Petrukhina, R. Thomas Weitz and Jean-François Morin*

10194



Supramolecular axial chirality in [N-I-N]⁺-type halogen bonded dimers

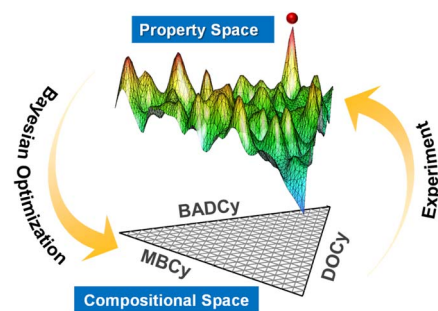
Shuguo An, Aiyu Hao and Pengyao Xing*



10203

Efficient exploration of compositional space for high-performance copolymers via Bayesian optimization

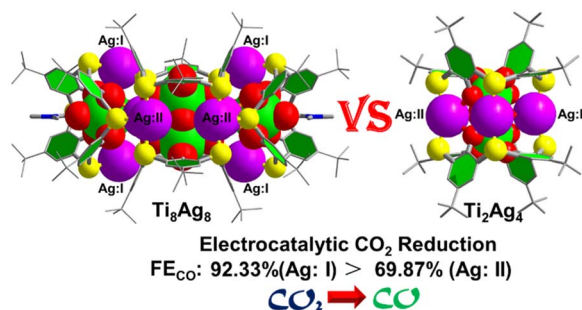
Xinyao Xu, Wenlin Zhao, Liquan Wang,* Jiaping Lin* and Lei Du



10212

Stepwise assembly of thiacalix[4]arene-protected Ag/Ti bimetallic nanoclusters: accurate identification of catalytic Ag sites in CO₂ electroreduction

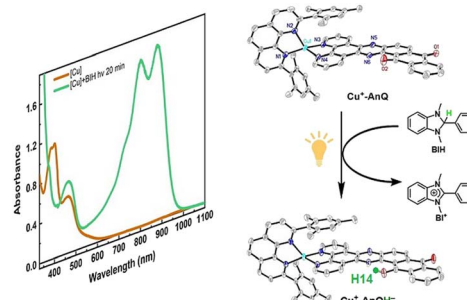
Yi-Qi Tian, Wen-Lei Mu, Lin-Lin Wu,* Xiao-Yi Yi, Jun Yan* and Chao Liu*



10219

Photochemical charge accumulation in a heteroleptic copper(I)-anthraquinone molecular dyad via proton-coupled electron transfer

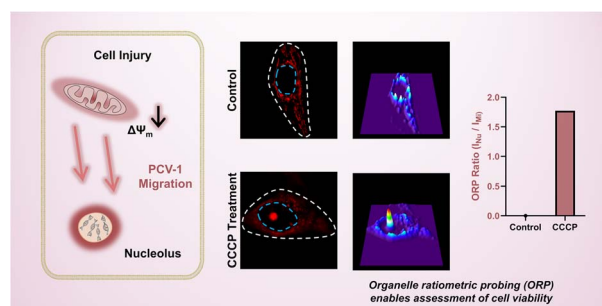
Zhu-Lin Xie, Nikita Gupta, Jens Niklas, Oleg G. Poluektov, Vincent M. Lynch, Ksenija D. Glusac and Karen L. Mulfort*



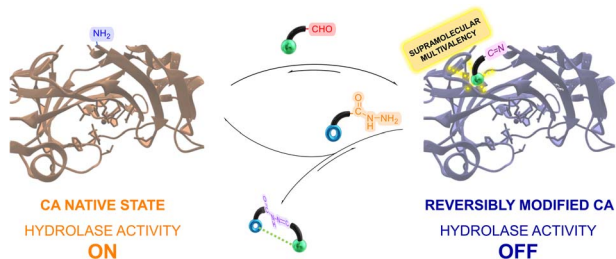
10236

Quantifying cell viability through organelle ratiometric probing

Rui Chen, Kangqiang Qiu, Guanqun Han, Bidyut Kumar Kundu, Guodong Ding, Yujie Sun* and Jiajie Diao*



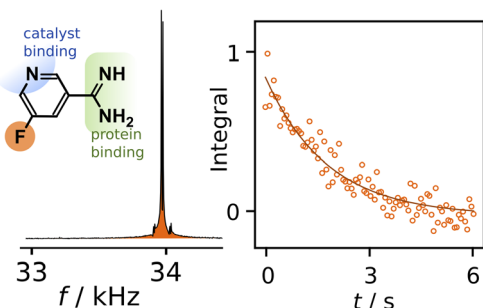
10249



Supramolecular multivalency effects enhance imine formation in aqueous medium allowing for dynamic modification of enzymatic activity

Ferran Esteve,* Fidan Rahmatova and Jean-Marie Lehn*

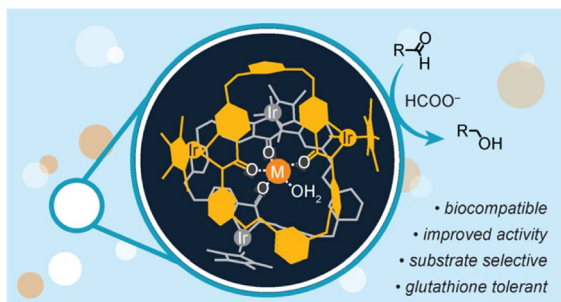
10258



Biomolecular interactions studied by low-field NMR using SABRE hyperpolarization

Pierce Pham and Christian Hilty*

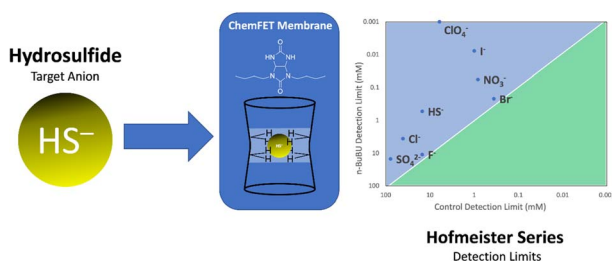
10264



Lewis acid-driven self-assembly of diiridium macrocyclic catalysts imparts substrate selectivity and glutathione tolerance

Hieu D. Nguyen, Rahul D. Jana, Dylan T. Campbell, Thi V. Tran and Loi H. Do*

10273



Benchmarking the placement of hydrosulfide in the Hofmeister series using a bambus[6]uril-based ChemFET sensor

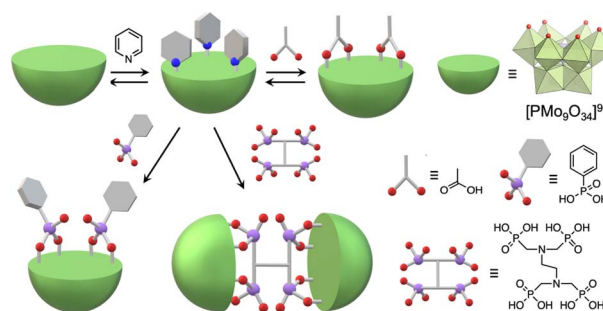
Grace M. Kuhl, Douglas H. Banning, Hazel A. Fargher, Willow A. Davis, Madeline M. Howell, Lev N. Zakharov, Michael D. Pluth* and Darren W. Johnson*



10280

Molecular hybrids of trivacant lacunary polyoxomolybdate and multidentate organic ligands

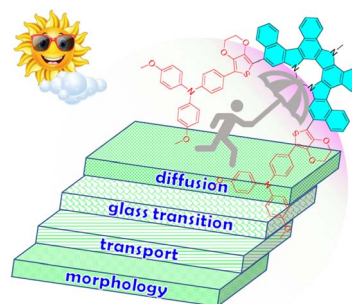
Atsuhiko Jimbo, Chifeng Li, Kentaro Yonesato, Tomoki Ushiyama, Kazuya Yamaguchi and Kosuke Suzuki*



10285

Molecular engineering of nitrogen-rich helicene based organic semiconductors for stable perovskite solar cells

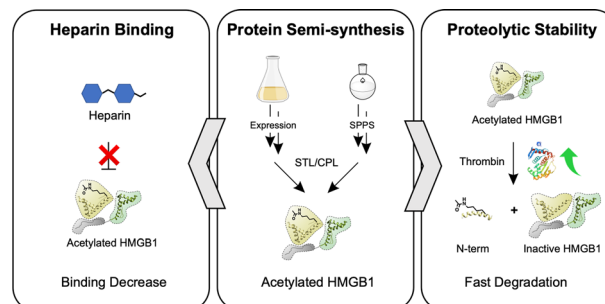
Yuefang Wei, Yaohang Cai, Lifei He, Yuyan Zhang, Yi Yuan,* Jing Zhang and Peng Wang*



10297

Revealing the extracellular function of HMGB1 N-terminal region acetylation assisted by a protein semi-synthesis approach

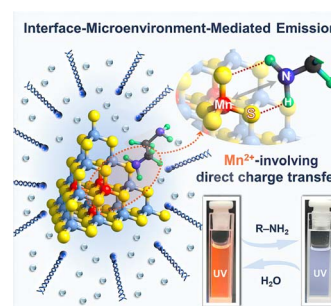
Tongyao Wei, Jiamei Liu, Can Li, Yi Tan, Ruohan Wei, Jinzheng Wang, Hongxiang Wu, Qingrong Li, Heng Liu, Yubo Tang and Xuechen Li*



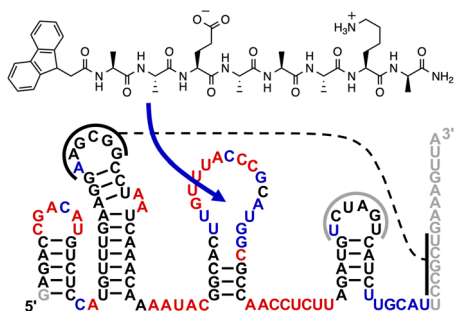
10308

The interface microenvironment mediates the emission of a semiconductor nanocluster via surface-dopant-involving direct charge transfer

Zhiqiang Wang, Hao Ma, Jiayu Zhang, Yingjia Lan, Jia-Xing Liu, Shang-Fu Yuan, Xiao-Ping Zhou, Xiaohong Li, Chaochao Qin, Dong-Sheng Li and Tao Wu*



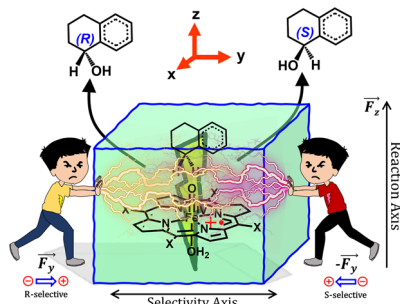
10318



Peptide conjugates with polyaromatic hydrocarbons can benefit the activity of catalytic RNAs

Kevin J. Sweeney, Tommy Le, Micaella Z. Jorge, Joan G. Schellinger, Luke J. Lemman and Ulrich F. Müller*

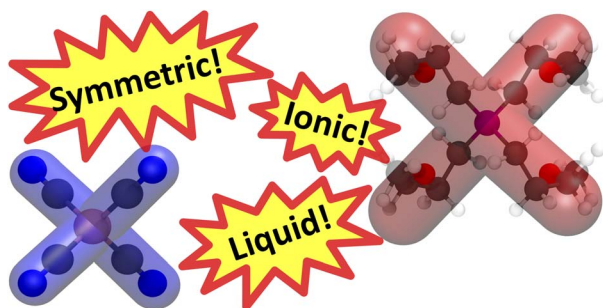
10329



A porphyrin-based molecular cage guided by designed local-electric field is highly selective and efficient

Shakir Ali Siddiqui, Sason Shaik,* Surajit Kalita and Kshatresh Dutta Dubey*

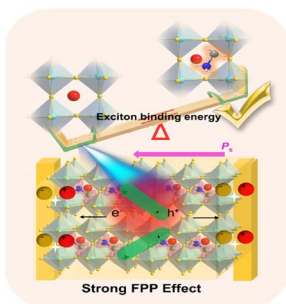
10340



Room temperature ionic liquids with two symmetric ions

Daniel Rauber,* Frederik Philippi,* Daniel Schroeder, Bernd Morgenstern, Andrew J. P. White, Marlon Jochum, Tom Welton and Christopher W. M. Kay*

10347



Mixing cage cations in 2D metal-halide ferroelectrics enhances the ferro-pyro-phototronic effect for self-driven photopyroelectric detection

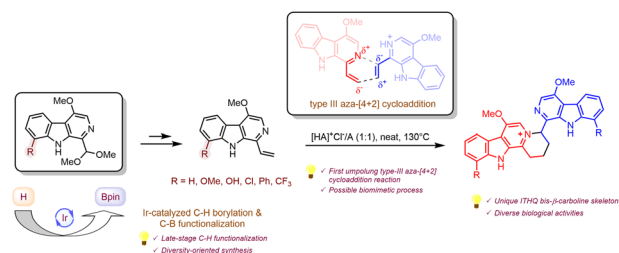
Yu Ma, Wenjing Li, Yi Liu, Wuqian Guo, Haojie Xu, Shiguo Han, Liwei Tang, Qingshun Fan, Junhua Luo and Zhihua Sun*



10353

Divergent total syntheses of ITHQ-type bis- β -carboline alkaloids by regio-selective formal aza-[4 + 2] cycloaddition and late-stage C–H functionalization

Qixuan Wang, Fusheng Guo, Jin Wang and Xiaoguang Lei*



CORRECTIONS

10360

Further correction: Expanding medicinal chemistry into 3D space: metallofragments as 3D scaffolds for fragment-based drug discovery

Christine N. Morrison, Kathleen E. Prosser, Ryjul W. Stokes, Anna Cordes, Nils Metzler-Nolte and Seth M. Cohen*

10363

Correction: Self-quenched ferrocenyl diketopyrrolopyrrole organic nanoparticles with amplifying photothermal effect for cancer therapy

Pingping Liang, Qianyun Tang, Yu Cai, Gongyuan Liu, Weili Si, Jinjun Shao, Wei Huang,* Qi Zhang* and Xiaochen Dong*

