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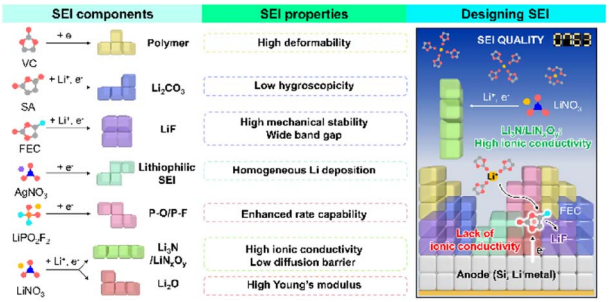
Liquid electrolyte chemistries for solid electrolyte interphase construction on silicon and lithium-metal anodes

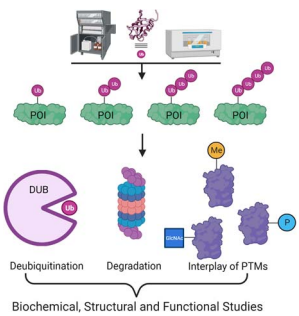
Sewon Park, Saehun Kim, Jeong-A. Lee, Makoto Ue and Nam-Soon Choi*



10025

Synthesis of ubiquitinated proteins for biochemical and functional analysis

Julia Kriegesmann and Ashraf Brik*



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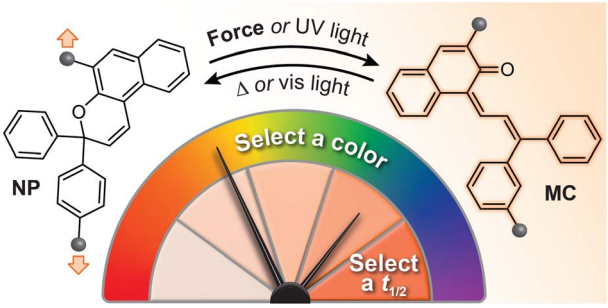
Naphthopyran molecular switches and their emergent mechanochemical reactivity

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



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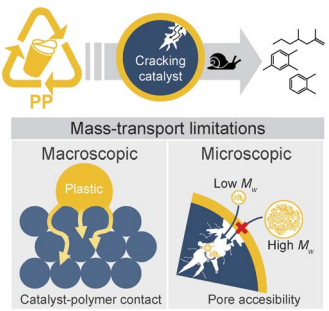
Transport limitations in polyolefin cracking at the single catalyst particle level

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



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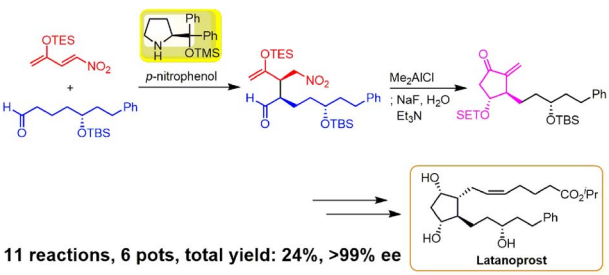
Organocatalyst-mediated, pot-economical total synthesis of latanoprost

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



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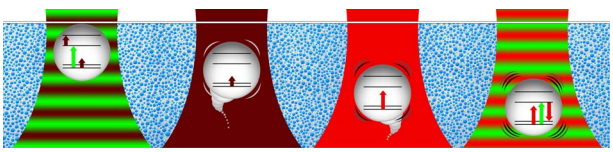
Gaining control on optical force by the stimulated-emission resonance effect

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



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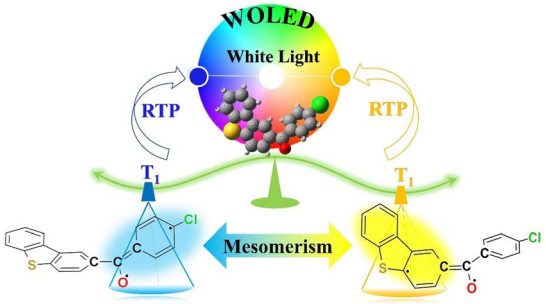

Mesomerism induced temperature-dependent multicomponent phosphorescence emissions in ClBDBT

Zexing Qu,* Yujie Guo, Jilong Zhang* and Zhongjun Zhou*

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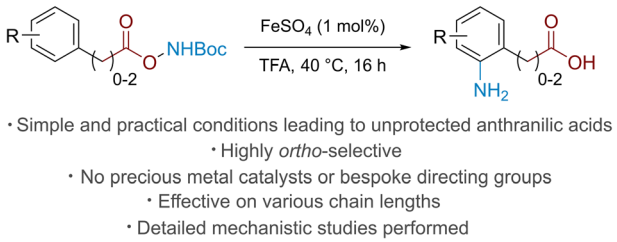

***Ortho*-Selective amination of arene carboxylic acids *via* rearrangement of acyl *O*-hydroxylamines**

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

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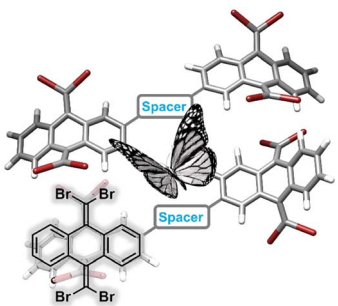

Dimeric tetrabromo-*p*-quinodimethanes: synthesis and structural/electronic properties

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

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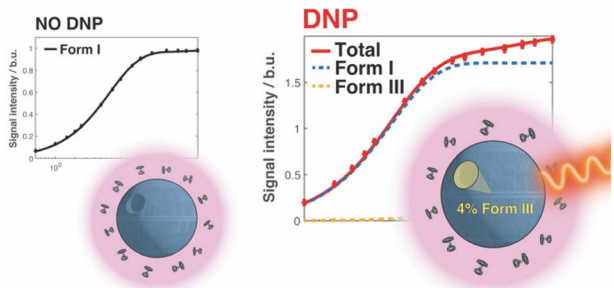

Exploiting solid-state dynamic nuclear polarization NMR spectroscopy to establish the spatial distribution of polymorphic phases in a solid material

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

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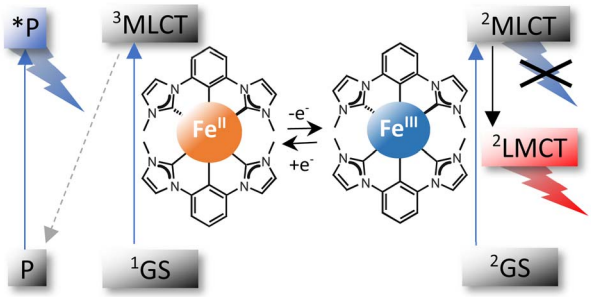
Ferrous and ferric complexes with cyclometalating N-heterocyclic carbene ligands: a case of dual emission revisited

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*



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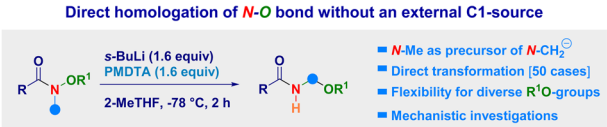
Base-mediated homologative rearrangement of nitrogen–oxygen bonds of *N*-methyl-*N*-oxyamides

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



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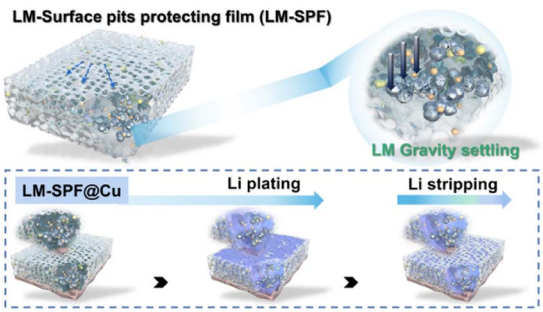
A liquid metal-fluoropolymer artificial protective film enables robust lithium metal batteries at sub-zero temperatures

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



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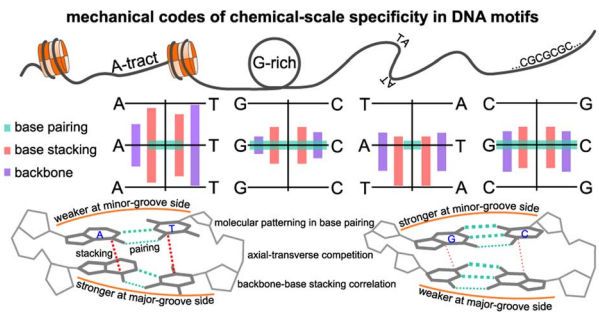
Mechanical codes of chemical-scale specificity in DNA motifs

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



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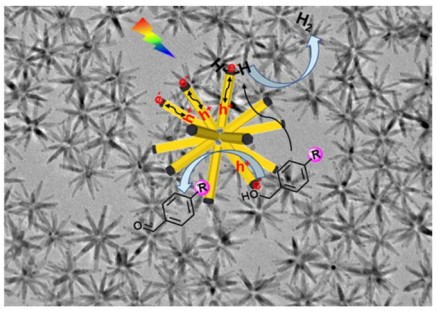

Versatile synthesis of nano-icosapods *via* cation exchange for effective photocatalytic conversion of biomass-relevant alcohols

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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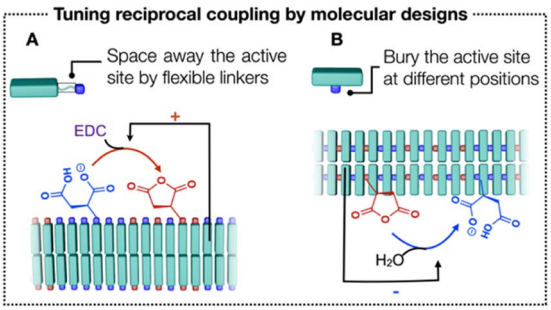

Design rules for reciprocal coupling in chemically fueled assembly

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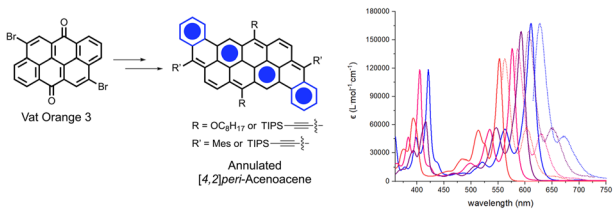

Dibenzannulated *peri*-acenoacenes from anthanthrene derivatives

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

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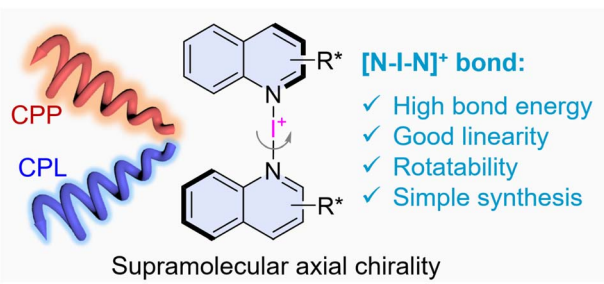

Supramolecular axial chirality in [N–I–N]$^+$-type halogen bonded dimers

Shuguo An, Aiyou Hao and Pengyao Xing*

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

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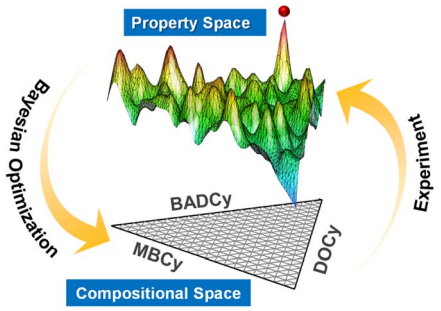

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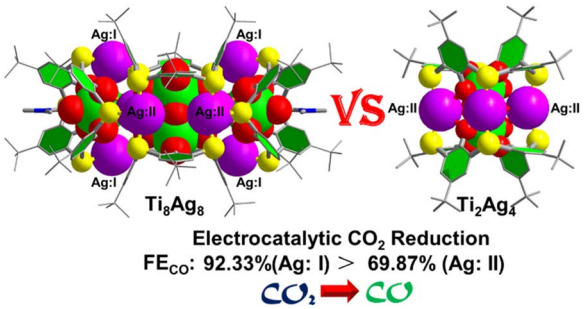
Stepwise assembly of thiacalix[4]arene-protected Ag/Ti bimetallic nanoclusters: accurate identification of catalytic Ag sites in CO_2 electroreduction

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



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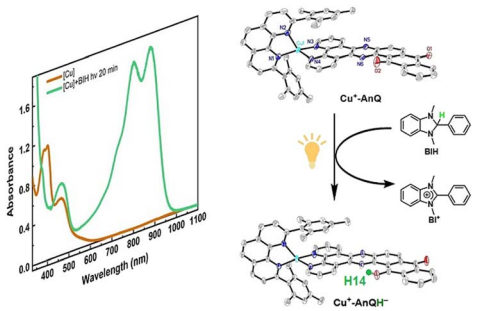
Photochemical charge accumulation in a heteroleptic copper(I)-anthraquinone molecular dyad *via* proton-coupled electron transfer

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



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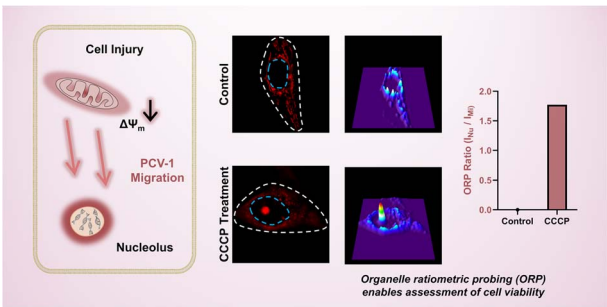
Quantifying cell viability through organelle ratiometric probing

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



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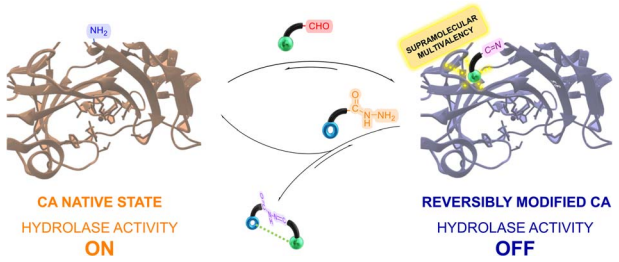
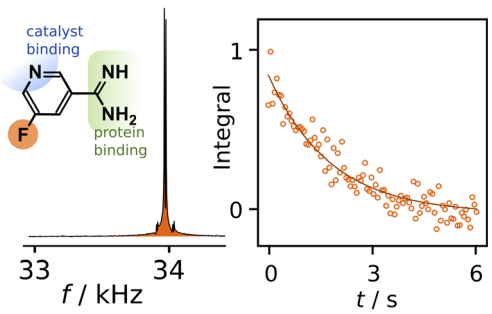


Supramolecular multivalency effects enhance imine formation in aqueous medium allowing for dynamic modification of enzymatic activity

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

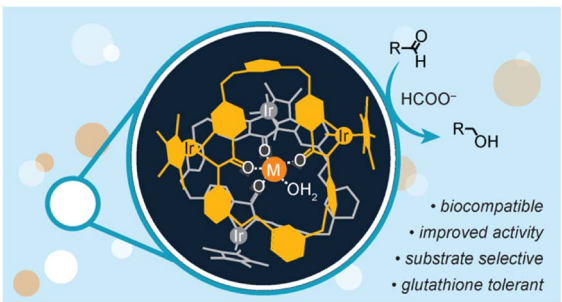
10258



Biomolecular interactions studied by low-field NMR using SABRE hyperpolarization

Pierce Pham and Christian Hilty*

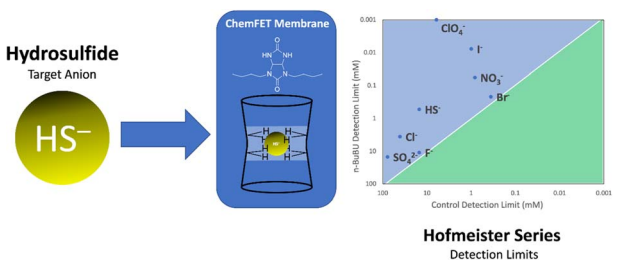
10264



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*

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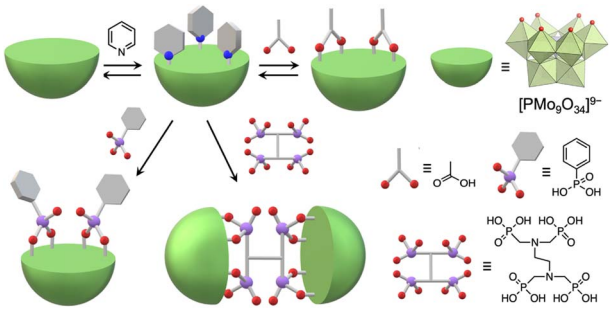
EDGE ARTICLES

10280

Molecular hybrids of trivacant lacunary polyoxomolybdate and multidentate organic ligands

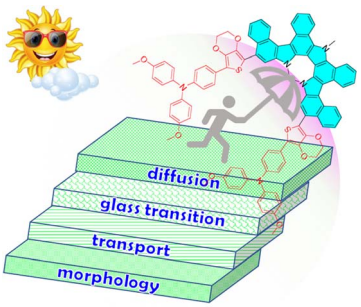
Atsuhiro Jimbo, Chifeng Li, Kentaro Yonesato, Tomoki Ushiyama, Kazuya Yamaguchi and Kosuke Suzuki*



10285

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

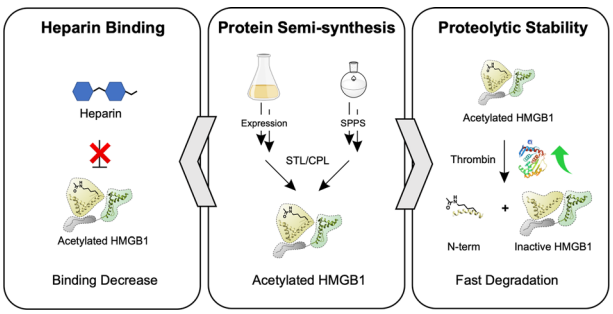
Yuefang Wei, Yaohang Cai, Lifei He, Yuyan Zhang, Yi Yuan,* Jing Zhang and Peng Wang*



10297

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

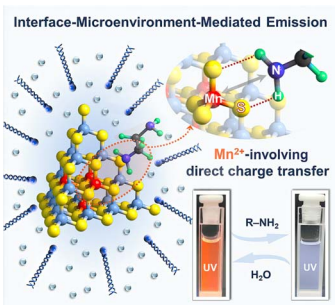
Tongyao Wei, Jiamei Liu, Can Li, Yi Tan, Ruohan Wei, Jinzheng Wang, Hongxiang Wu, Qingrong Li, Heng Liu, Yubo Tang and Xuechen Li*



10308

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

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



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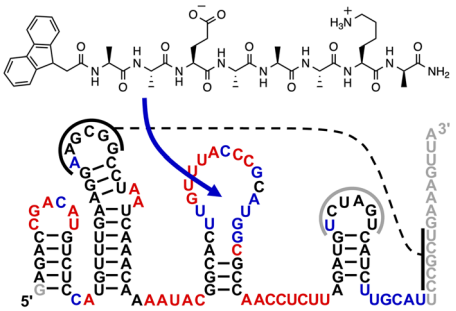
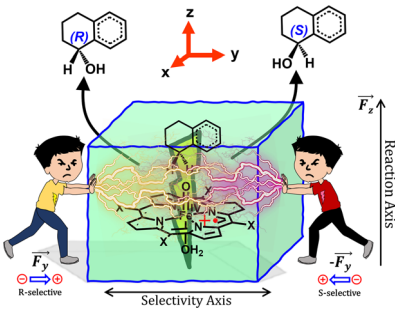
10318



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. Leman and Ulrich F. Müller*

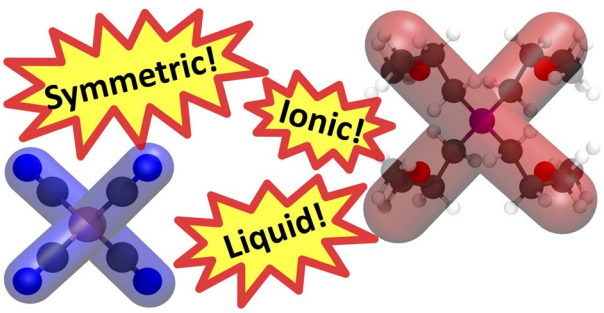
10329



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*

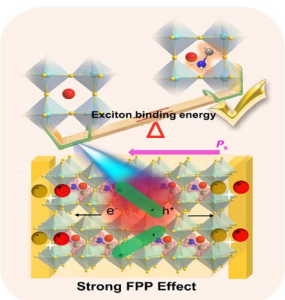
10340



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*

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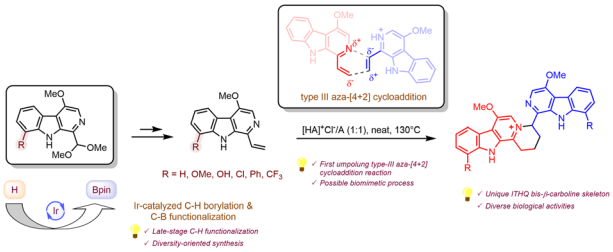
10353

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*