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See Masahiro Ehara, Mitsuhiro Shionoya et al., pp. 6207–6215.
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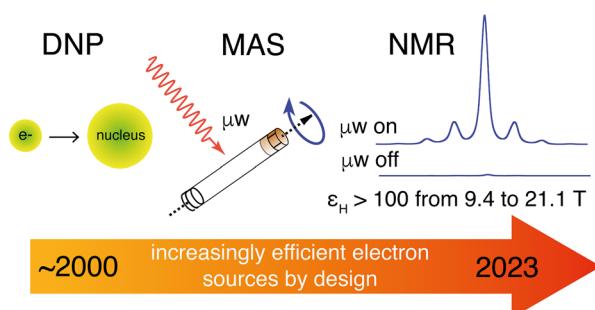
See Subhabrata Sen et al., pp. 6216–6225.
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REVIEWS

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Polarizing agents for efficient high field DNP solid-state NMR spectroscopy under magic-angle spinning: from design principles to formulation strategies

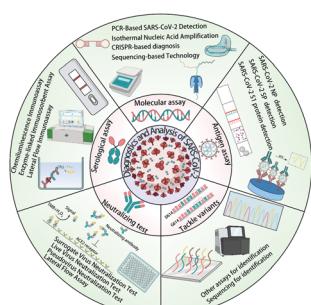
Georges Menzildjian, Judith Schlagheit, Gilles Casano, Olivier Ouari, David Gajan* and Anne Lesage*



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Tao Dong, Mingyang Wang, Junchong Liu, Pengxin Ma, Shuang Pang, Wanjian Liu and Aihua Liu*



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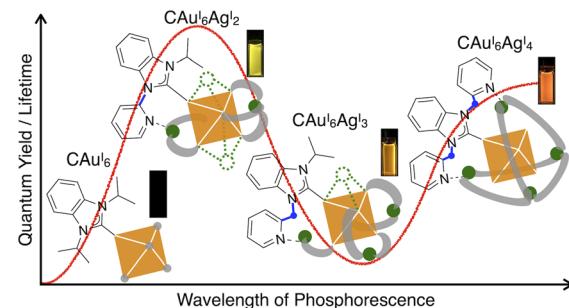
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Photoluminescence control by atomically precise surface metallization of C-centered hexagold(i) clusters using N-heterocyclic carbenes

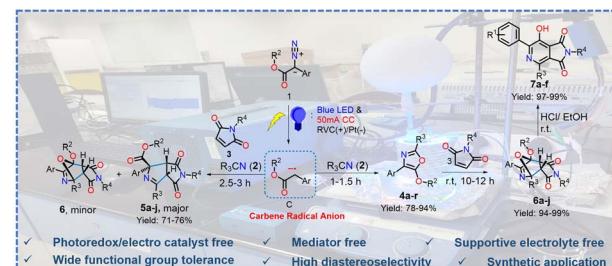
Zhen Lei, Pei Zhao, Xiao-Li Pei, Hitoshi Ube, Masahiro Ehara* and Mitsuhiro Shionoya*



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Unveiling catalyst-free electro-photochemical reactivity of aryl diazoesters and facile synthesis of oxazoles, imide-fused pyrroles and tetrahydro-epoxy-pyridines via carbene radical anions

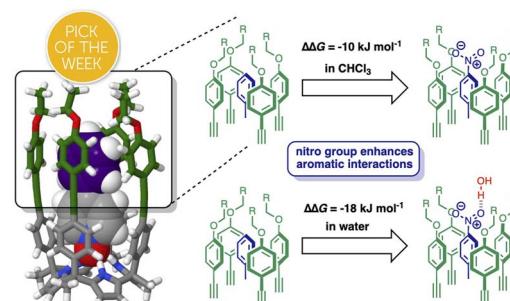
Debajit Maiti, Argha Saha, Srimanta Guin, Debabrata Maiti and Subhabrata Sen*



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Substituent effects on aromatic interactions in water

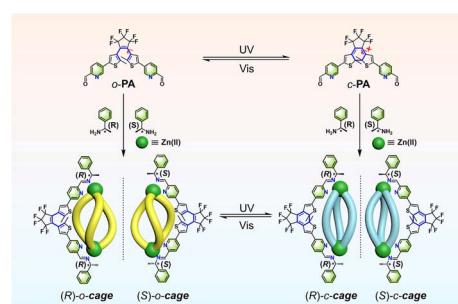
Gloria Tobajas-Curiel, Qingqing Sun, Jeremy K. M. Sanders, Pablo Ballester* and Christopher A. Hunter*



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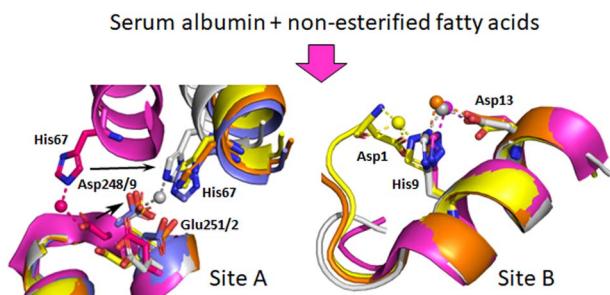
Light-regulating chirality of metallacages featuring dithienylethene switches

Shaomeng Guo, Mengqi Li, Honglong Hu, Ting Xu, Hancheng Xi and Wei-Hong Zhu*



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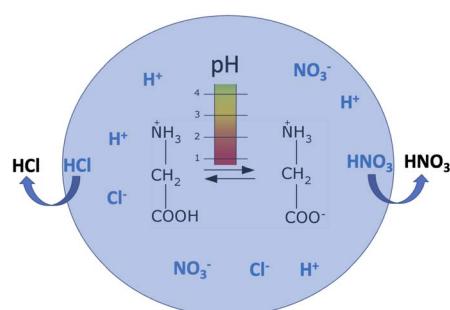
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Structural and biochemical characterisation of Co^{2+} -binding sites on serum albumins and their interplay with fatty acids

Dongmei Wu, Michal Gucwa, Mateusz P. Czub, David R. Cooper, Ivan G. Shabalin, Remi Fritzen, Swati Arya, Ulrich Schwarz-Linek, Claudia A. Blindauer, Wladek Minor* and Alan J. Stewart*

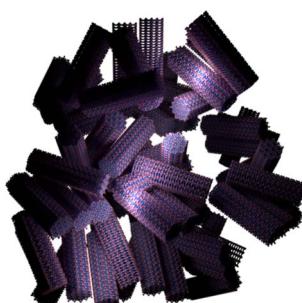
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Direct quantification of changes in pH within single levitated microdroplets and the kinetics of nitrate and chloride depletion

Kyle J. Angle and Vicki H. Grassian*

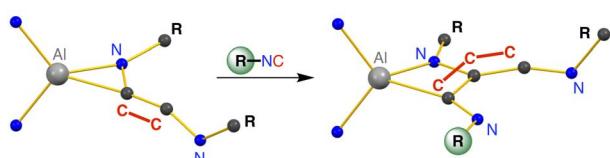
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On the non-bonding valence band and the electronic properties of poly(triazine imide), a graphitic carbon nitride

David Burmeister,* Alberto Eljarrat, Michele Guerrini, Eva Röck, Julian Plaickner, Christoph T. Koch, Natalie Banerji, Caterina Cocchi, Emil J. W. List-Kratochvil and Michael J. Bojdys*

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Controlled reductive C–C coupling of isocyanides promoted by an aluminyl anion

Matthew J. Evans, Mathew D. Anker,* Claire L. McMullin* and Martyn P. Coles*

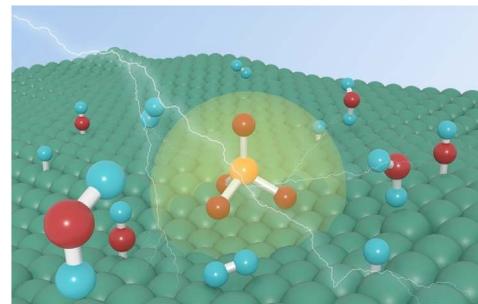


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Promoting water formation in sulphate-functionalized Ru for efficient hydrogen oxidation reaction under alkaline electrolytes

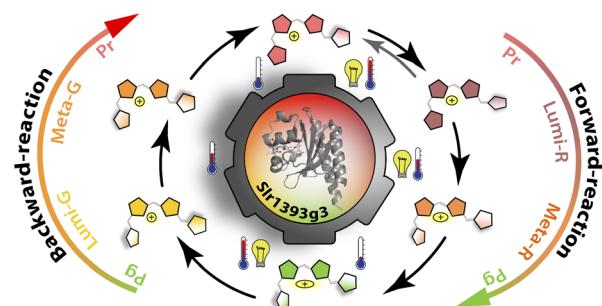
Chaoyi Yang, Yunbo Li, Jianchao Yue, Hengjiang Cong and Wei Luo*



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Photocycle of a cyanobacteriochrome: a charge defect on ring C impairs conjugation in chromophore

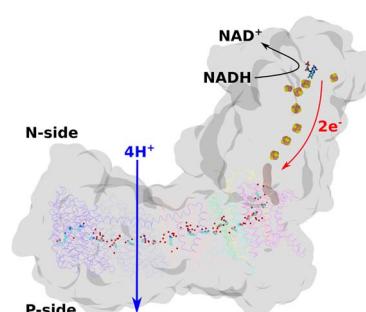
Lisa Köhler, Wolfgang Gärtner, Georgeta Salvan, Jörg Matysik,* Christian Wiebeler and Chen Song*



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Horizontal proton transfer across the antiporter-like subunits in mitochondrial respiratory complex I

Oleksii Zdorevskyi, Amina Djurabekova, Jonathan Lasham and Vivek Sharma*



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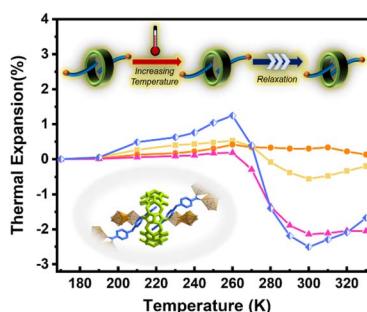
Substrate specific closed-loop optimization of carbohydrate protective group chemistry using Bayesian optimization and transfer learning

Natasha Videcrantz Faurschou, Rolf Hejle Taaning and Christian Marcus Pedersen*



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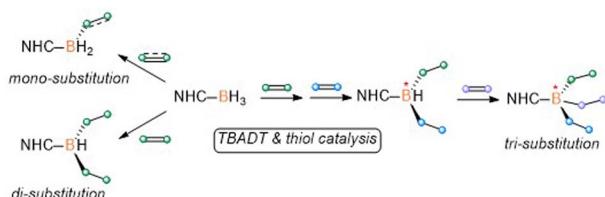
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Colossal negative thermal expansion in a cucurbit[8]uril-enabled uranyl-organic polythreading framework *via* thermally induced relaxation

Qiu-Yan Jin, Yuan-Yuan Liang, Zhi-Hui Zhang,* Liao Meng, Jun-Shan Geng, Kong-Qiu Hu, Ji-Pan Yu, Zhi-Fang Chai, Lei Mei* and Wei-Qun Shi*

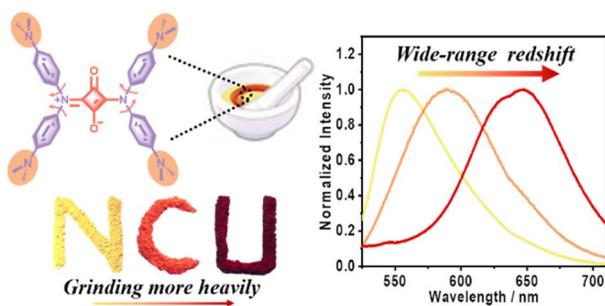
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Selective multifunctionalization of *N*-heterocyclic carbene boranes *via* the intermediacy of boron-centered radicals

Feng-Xing Li, Xinxin Wang, Jiaxin Lin, Xiangyu Lou, Jing Ouyang, Guanwen Hu and Yangjian Quan*

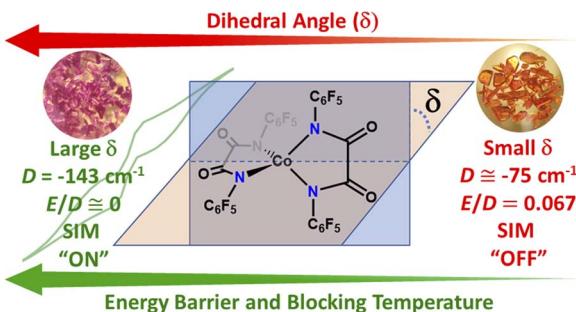
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Precise peripheral design enables propeller-like squaraine dye with highly sensitive and wide-range piezochromism

Weihua Guo, Mingda Wang, Leilei Si, Yigang Wang, Guomin Xia* and Hongming Wang

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Air-stable four-coordinate cobalt(II) single-ion magnets: experimental and *ab initio* ligand field analyses of correlations between dihedral angles and magnetic anisotropy

Sandeep K. Gupta, Shashank V. Rao, Serhiy Demeshko, Sebastian Dechert, Eckhard Bill, Mihail Atanasov,* Frank Neese* and Franc Meyer*

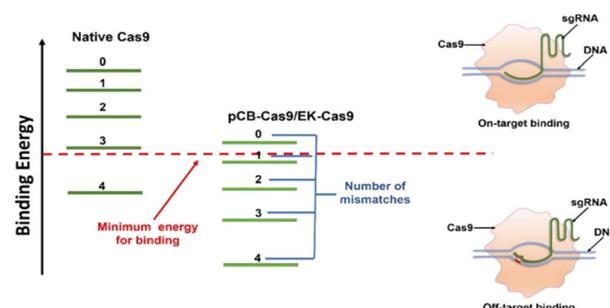


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Minimizing the off-target frequency of the CRISPR/Cas9 system via zwitterionic polymer conjugation and peptide fusion

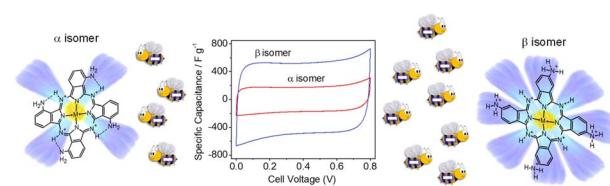
Yanjiao Han, Zhefan Yuan, Sijin Luo Zhong, Haoxian Xu and Shaoyi Jiang*



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Unprecedented energy storage in metal–organic complexes via constitutional isomerism

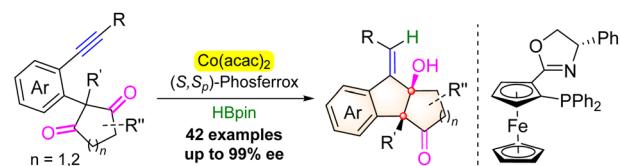
Alagar Raja Kottaichamy, Siraprapha Deebansok, Jie Deng, Mohammed Azeezulla Nazrulla, Yachao Zhu, Zahid Manzoor Bhat, Mruthyunjayachari Chattanahalli Devendrachari, Chathakudath Prabhakaran Vinod, Harish Makri Nimbegondi Kotresh,* Olivier Fontaine* and Musthafa Ottakam Thotiyil*



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Cobalt-catalyzed enantioselective desymmetrizing reductive cyclization of alkynyl cyclodiketones

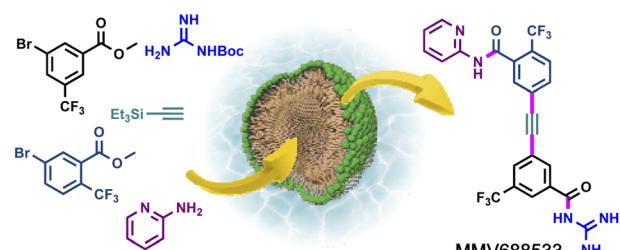
Ren-Xiao Liang,* Heng-Wei Tang, Jia-Liang Liu, Jian-Feng Xu, Ling-Jia Chen and Yi-Xia Jia*



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A sustainable, efficient, and potentially cost-effective approach to the antimalarial drug candidate MMV688533

Rahul D. Kavthe, Karthik S. Iyer, Juan C. Caravez and Bruce H. Lipshutz*

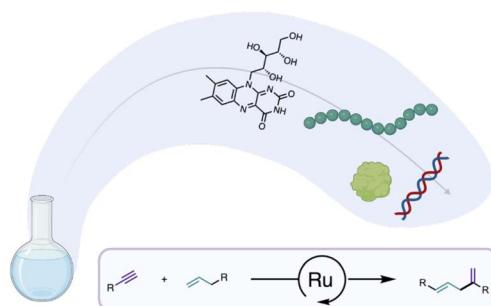


- ppm Pd catalyst, green reaction media
- 4 synthetic transformations in water
- 67% overall yield
- greatly reduced PMI and E Factor



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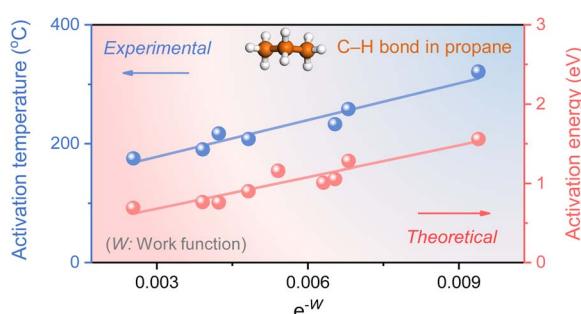
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Ruthenium-catalyzed intermolecular alkene–alkyne couplings in biologically relevant media

Alejandro Gutiérrez-González, Daniel Marcos-Atanes, Leonard G. Cool, Fernando López* and José L. Mascareñas*

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Tracking C–H bond activation for propane dehydrogenation over transition metal catalysts: work function shines

Xin Chang, Zhenpu Lu, Xianhui Wang, Zhi-Jian Zhao* and Jinlong Gong*

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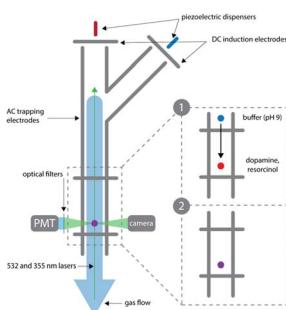


- J-coupling of anti-Kasha emitters
- molecular rigidity
- (anti)aromatic embedding

Rational design of anti-Kasha photoemission from a biazulene core embedded in an antiaromatic/aromatic hybrid

Aitor Diaz-Andres, Jose Marín-Beloqui, Junting Wang, Junzhi Liu, Juan Casado and David Casanova*

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pH jump kinetics in colliding microdroplets: accelerated synthesis of azamontardine from dopamine and resorcinol

Emily K. Brown, Grazia Rovelli and Kevin R. Wilson*

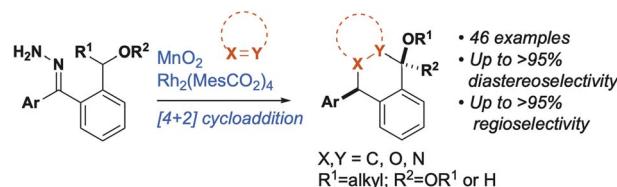


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Catalytic generation of *ortho*-quinone dimethides via donor/donor rhodium carbenes

Mingchun Gao, Jose M. Ruiz, Emily Jimenez, Anna Lo, Croix J. Laconsay, James C. Fettinger, Dean J. Tantillo and Jared T. Shaw*



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Asymmetric imino-acylation of alkenes enabled by HAT-photo/nickel cocatalysis

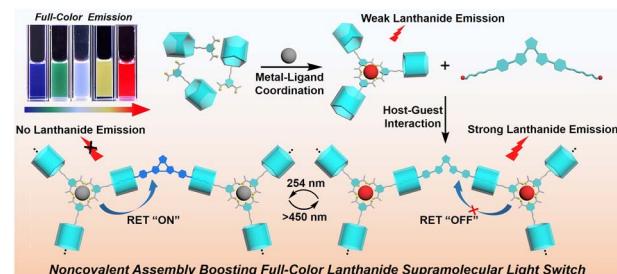
Rui Wang and Chuan Wang*



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A pillar[5]arene noncovalent assembly boosts a full-color lanthanide supramolecular light switch

Wei-Lei Zhou, Xian-Yin Dai, Wenjing Lin, Yong Chen and Yu Liu*



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Computer-assisted multistep chemoenzymatic retrosynthesis using a chemical synthesis planner

Karthik Sankaranarayanan and Klavs F. Jensen*

