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ISSN 1359-7345 CODEN CHCOFS 59(27) 3929-4088 (2023)



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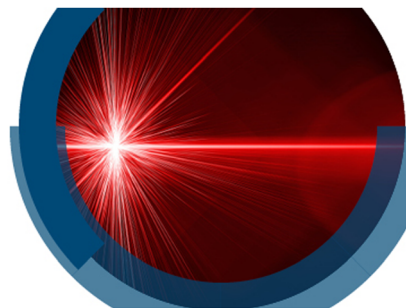
See Shuntaro Takahashi, Yuichi Negishi *et al.*, pp. 4000–4003. Image reproduced by permission of Yuichi Negishi from *Chem. Commun.*, 2023, 59, 4000.

CONFERENCE REPORT

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Highlights from *Faraday Discussion: From optical to THz control of materials*, London, UK, May 2022

Aswathy V. Girija,* Martina Basini and Habib Rostami

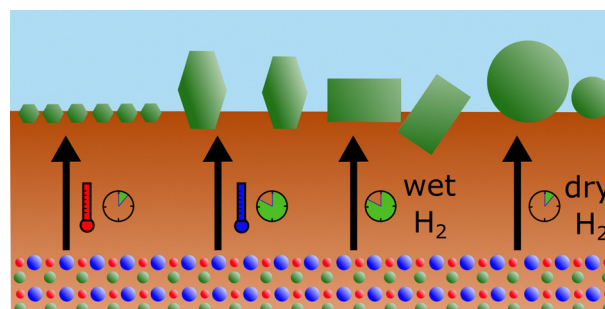


HIGHLIGHT

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Exsolution on perovskite oxides: morphology and anchorage of nanoparticles

Thomas Ruh, Dominic Berkovec, Florian Schrenk and Christoph Rameshan*



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Chemical Communications (print: ISSN 1359-7345; electronic: ISSN 1364-548X) is published 100 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WE.

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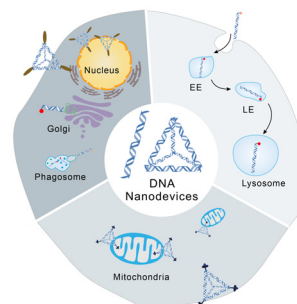


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Subcellular localization of DNA nanodevices and their applications

Xia Liu, Shuting Cao, Yue Gao, Shihua Luo, Ying Zhu and Lihua Wang*



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Recent advances in the synthesis and electrocatalytic application of MXene materials

Ting-Yu Shuai, Qi-Ni Zhan, Hui-Min Xu, Chen-Jin Huang, Zhi-Jie Zhang and Gao-Ren Li*

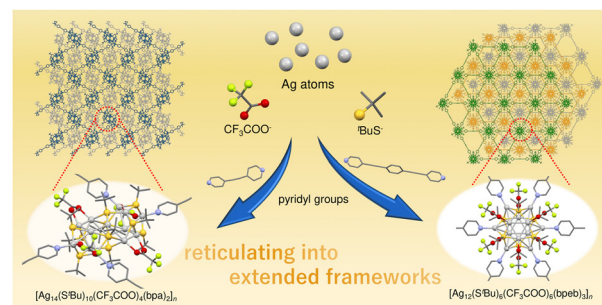


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Silver cluster-assembled materials for label-free DNA detection

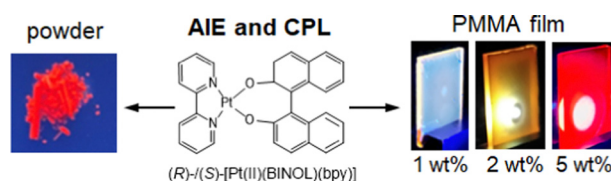
Saikat Das, Taishu Sekine, Haruna Mabuchi, Sakiat Hossain, Subhabrata Das, Shun Aoki, Shuntaro Takahashi* and Yuichi Negishi*



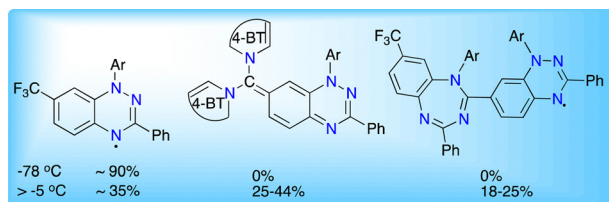
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Aggregation-induced circularly polarized phosphorescence of Pt(II) complexes with an axially chiral BINOL ligand

Daiki Tauchi, Taiki Koida, Yuki Nojima, Masahi Hasegawa, Yasuhiro Mazaki, Akiko Inagaki, Ken-ichi Sugiura, Yuki Nagaya, Kazunori Tsubaki, Takuya Shiga, Yuuya Nagata and Hiroyuki Nishikawa*



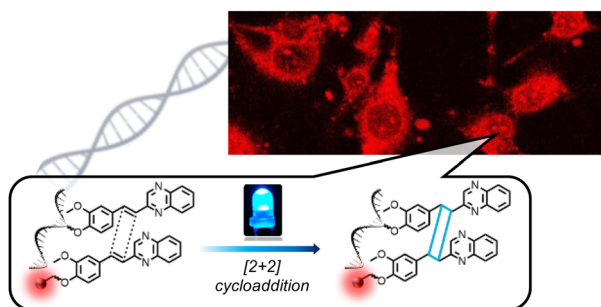
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Emilia Objalska, Anna Pietrzak, Christos P. Constantinides, Roger D. Sommer and Piotr Kaszyński*

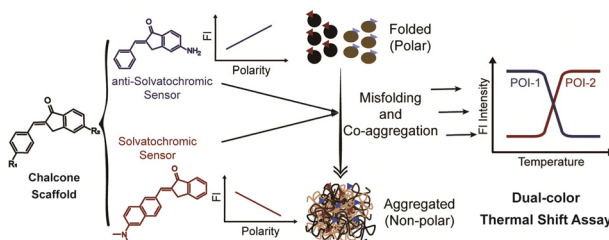
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DNA labelling in live cells *via* visible light-induced [2+2] photocycloaddition

Rita T. Michenfelder, Laura Delafresnaye, Vinh X. Truong,* Christopher Barner-Kowollik* and Hans-Achim Wagenknecht*

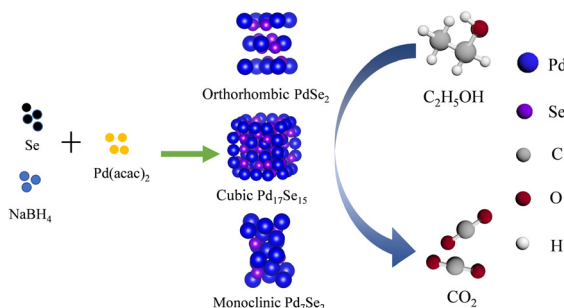
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Tailoring the positive and negative solvatochromism for chalcone analogues to detect heterozygous protein co-aggregation

Bai Yulong, Wan Wang, Huang Yanan, Wu Jichun, Liu Lihua, Jing Biao, Chen Junlin, Zhang Xin* and Liu Yu*

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Zhenya Hu, Niuwa Yang, Yongjun Feng, Lin Xu, Chaoquan Hu, Hui Liu,* Shaonan Tian* and Jun Yang*

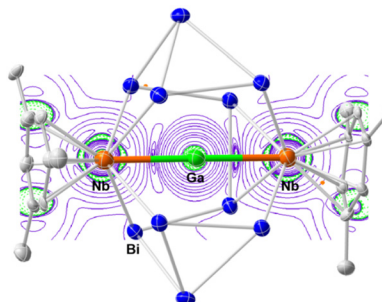


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[Ga@Bi₁₀(NbMes)₂]³⁻: a linear Nb–Ga^I–Nb filament coordinated by a bismuth cage

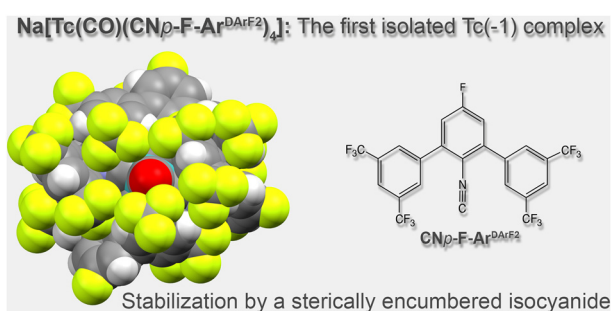
Lei Qiao, Tao Yang,* Gernot Frenking and Zhong-Ming Sun*



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Na[Tc(CO)(CN*p*-F-Ar^{DARF2})₄]: an isocyanide analogue of the elusive Na[Tc(CO)₅]

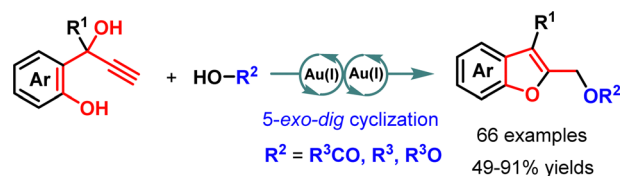
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Gold self-relay catalysis enabling annulative oxygenation of propargylic alcohols with O-nucleophiles

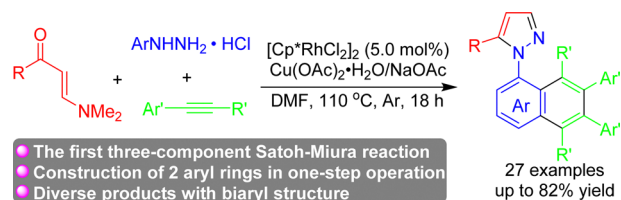
Meng-Ying Hao, Yin Zhang, Na Lin, Rong Fu, Xiao-Shuang Ji, Bo Jiang,* Shu-Jiang Tu* and Wen-Juan Hao*



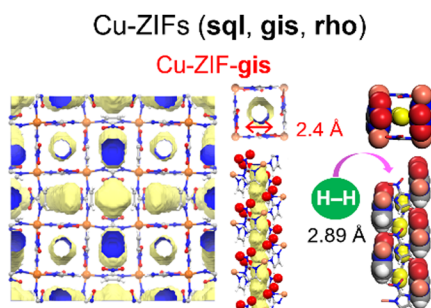
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Demao Chen, Liyun Zhou, Yunyun Liu* and Jie-Ping Wan*



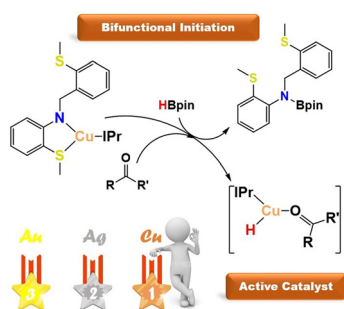
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Cheolwon Jung, Sang Beom Choi, Jaewoo Park, Minji Jung, Jonghoon Kim, Hyunchul Oh* and Jaheon Kim*

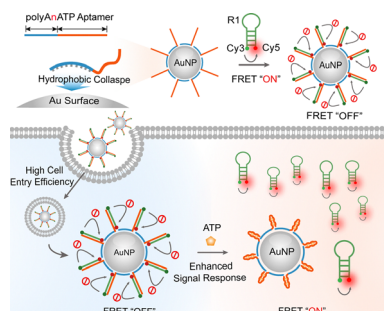
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Saeed Ataie, Maxwell Lohar, Loïc P. Mangin and R. Tom Baker*

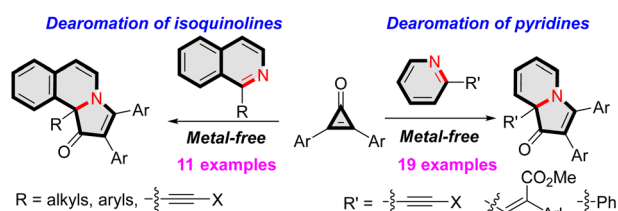
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Programmably engineered FRET-nanoflare for ratiometric live-cell ATP imaging with anti-interference capability

Hongyu Wu, Chengwen Zhang, Fulin Zhu, Yu Zhu, Xinhui Lu, Ying Wan, Shao Su, Jie Chao, Lianhui Wang and Dan Zhu*

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Xiang Liu, Xiaotian Shi, Jinlei Zhou, Changfeng Huang, Yu Lin, Chen Zhang and Hua Cao*

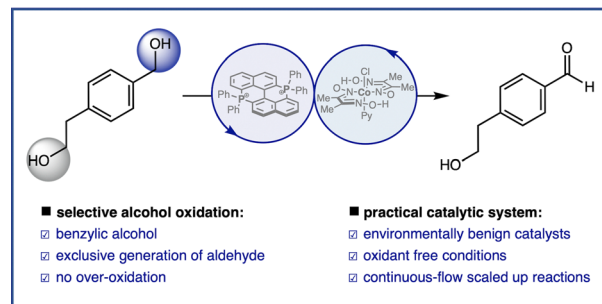


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Selective oxidation of benzylic alcohols via synergistic bisphosphonium and cobalt catalysis

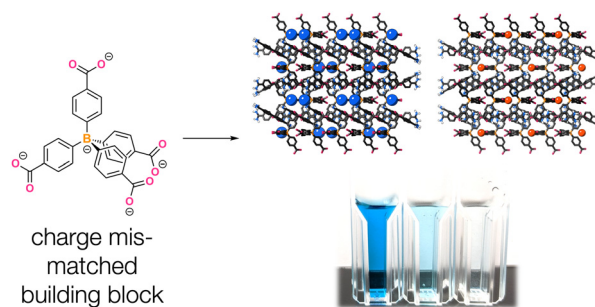
Jia Ding, Shuaishuai Luo, Yuanli Xu, Qing An, Yi Yang* and Zhiwei Zuo*



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Charge “mis-matched” hydrogen bonded frameworks for cation exchange and dye sorption

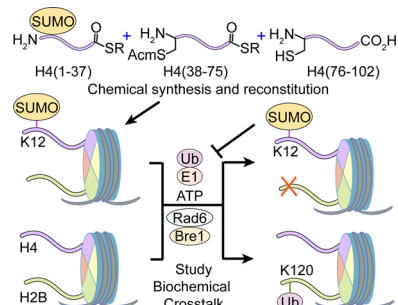
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Total chemical synthesis of sumoylated histone H4 reveals negative biochemical crosstalk with histone ubiquitylation

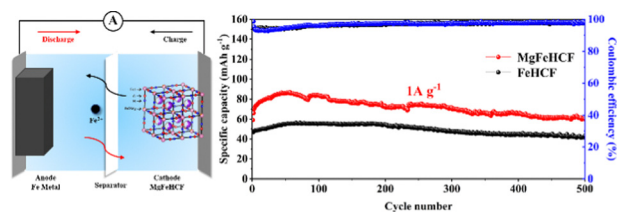
Sumeet K. Singh, Andres Reyna, Xiaowen Xie, Haibin Mao, Meihuan Ji, Ning Zheng, Peter L. Hsu and Champak Chatterjee*



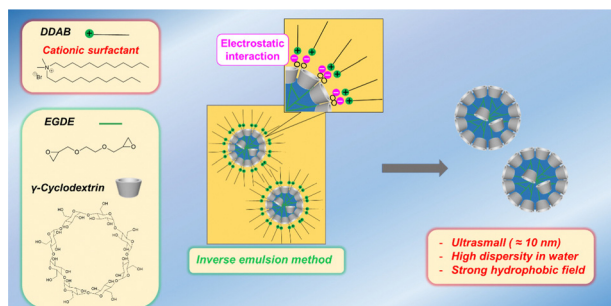
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Mg-substituted Prussian blue as a low-strain cathode material for aqueous Fe-ion batteries

Ge Huang, Zefeng Lao, Ze He, Fangyu Xiong, Shuangshuang Tan, Meng Huang, Greta Thompson, Qinyou An* and Liqiang Mai*



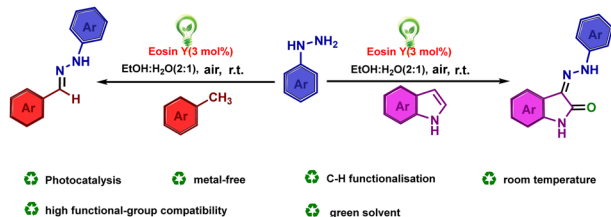
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Preparation of ultrasmall cyclodextrin nanogels by an inverse emulsion method using a cationic surfactant

Satomi Takeuchi, Andrea Cesari, Suzuka Soma, Yota Suzuki, Maria Antonietta Casulli, Kai Sato, Fabrizio Mancin, Takeshi Hashimoto and Takashi Hayashita*

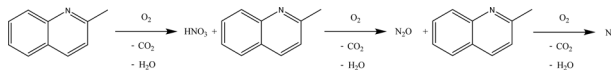
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Visible-light-absorbing C–N cross-coupling for the synthesis of hydrazones involving C(sp²)–H/C(sp³)–H functionalization

Ambuj Kumar Kushwaha, Suresh Kumar Maury, Arsala Kamal, Himanshu Kumar Singh, Shikha Pandey and Sundaram Singh*

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Michael Huber, Maximilian J. Poller, Jens Tochtermann, Wolfgang Korth, Andreas Jess and Jakob Albert*

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Anthony J. Fernandes, Bastien Michelet, Armen Panossian, Agnès Martin-Mingot, Frédéric R. Leroux* and Sébastien Thibaudeau*

