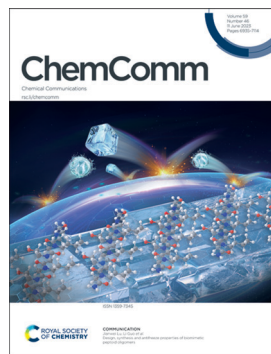


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ISSN 1359-7345 CODEN CHCOFS 59(46) 6935-7114 (2023)



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See Jianwei Lu, Li Guo *et al.*, pp. 7028–7031. Image reproduced by permission of Li Guo from *Chem. Commun.*, 2023, 59, 7028.



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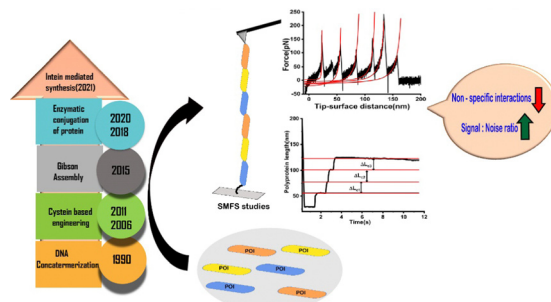
See Lei Zhao and Fen Ran, pp. 6969–6986. Image reproduced by permission of Fen Ran from *Chem. Commun.*, 2023, 59, 6969.

HIGHLIGHTS

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Polyprotein synthesis: a journey from the traditional pre-translational method to modern post-translational approaches for single-molecule force spectroscopy

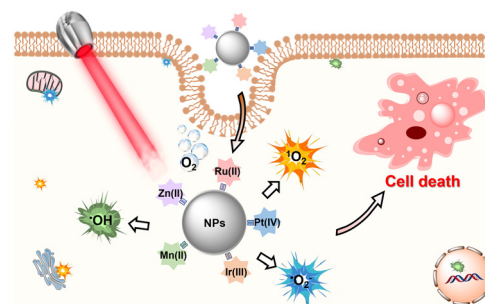
Veeral Kaur, Surbhi Garg* and Sabyasachi Rakshit*



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Recent progress in metal complexes functionalized nanomaterials for photodynamic therapy

Fangmian Wei, Zhuoli Chen, Xing-Can Shen,*
Liangnian Ji and Hui Chao*



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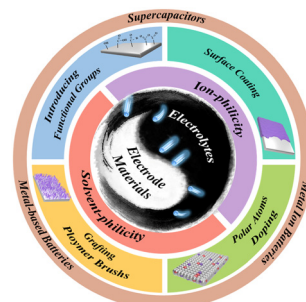


FEATURE ARTICLES

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Electrolyte-philicity of electrode materials

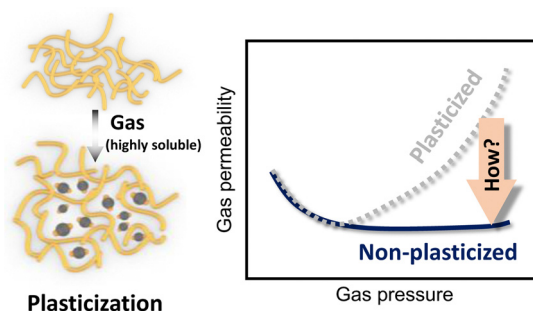
Lei Zhao and Fen Ran*



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Covalent and non-covalent approaches to suppress plasticization of polymer membranes for gas separation

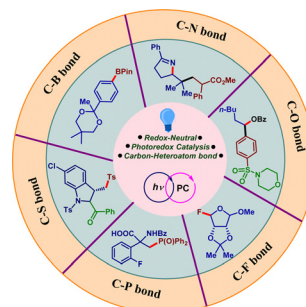
Ji Woo Kim, Jin Hui Jo, Songah Jeong, Won Seok Chi* and Hyungwoo Kim*



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Redox-neutral carbon–heteroatom bond formation under photoredox catalysis

Sumit Ghosh, Souvik Majumder, Debashis Ghosh and Alakananda Hajra*

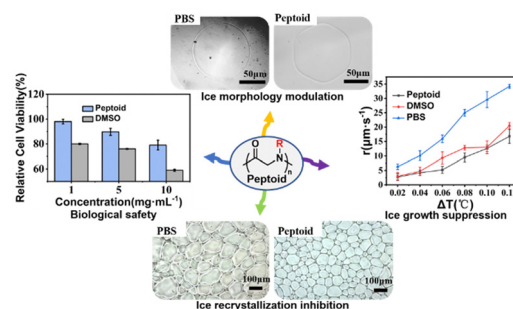


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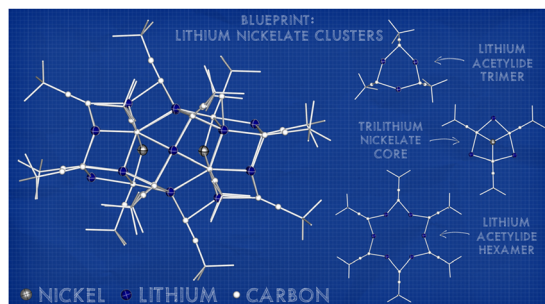
Design, synthesis and antifreeze properties of biomimetic peptoid oligomers

Min Zhang, Zhifeng Qiu, Kang Yang, Wencheng Zhou, Wenqi Liu, Jianwei Lu* and Li Guo*



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Organolithium aggregation as a blueprint to construct polynuclear lithium nickelate clusters

Andryj M. Borys* and Eva Hevia*

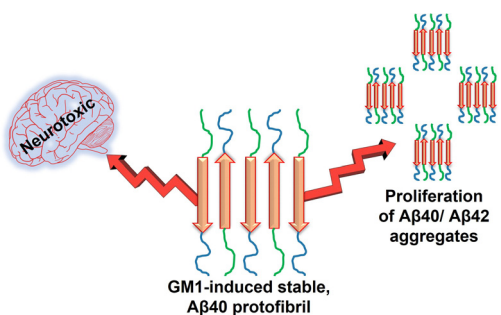
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A red ambient afterglow material with lifetime of 0.5 s and efficiency over 12%

Xingsha Shen, Yanju Luo, Kuan Chen, Caixia Fu, Ruyi Liu, Yan Huang,* Kaiqun Wu, Juan Luo and Zhiyun Lu*

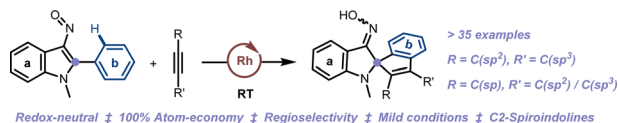
7040



Ganglioside GM1 produces stable, short, and cytotoxic Aβ₄₀ protofibrils

Manjeet Kumar, Magdalena I Ivanova and Ayyalusamy Ramamoorthy*

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Rhodium(III)-catalyzed mild and regioselective dearomative spirocyclization of 2-aryl-3-nitrosoindoles with alkynes

Cheng Li, Bin Zhao, Guojiang Mao and Guo-Jun Deng*

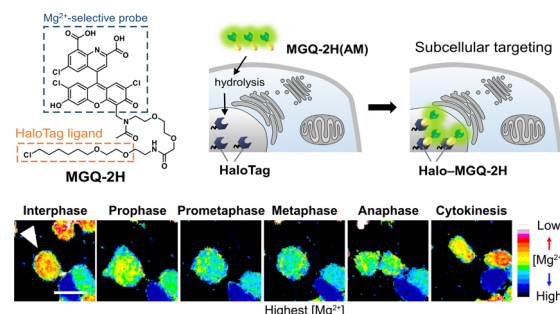


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Long-term imaging of intranuclear Mg^{2+} dynamics during mitosis using a localized fluorescent probe

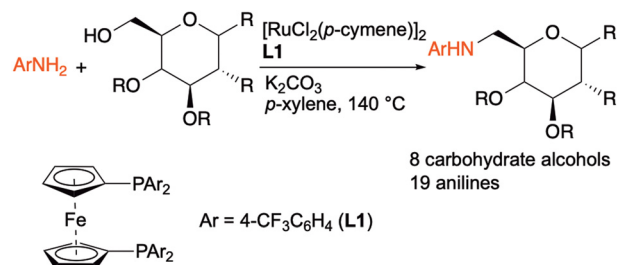
Yusuke Matsui, Toshiyuki Kowada, Yi Ding, Priya Ranjan Sahoo, Kazuya Kikuchi* and Shin Mizukami*



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Ruthenium-catalysed *N*-alkylation of anilines with primary carbohydrate alcohols via borrowing hydrogen strategy

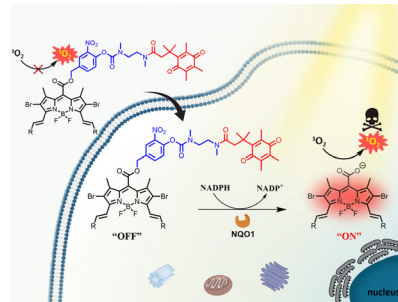
Kouki Tsuge, Shunnichi Kubota, Kana Sakamoto, Kenji Kitayama and Takahiro Nishimura*



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Design and synthesis of a NAD(P)H:quinone oxidoreductase 1-activatable photosensitizer for controlled photodynamic therapy

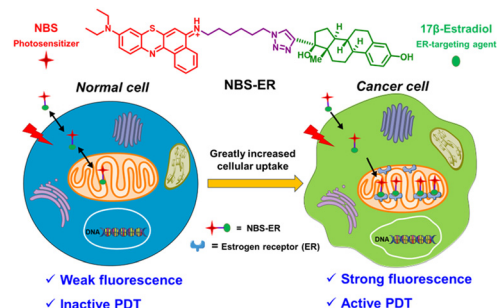
Evelyn Y. Xue, Fangyuan Kang, Yimin Zhou and Dennis K. P. Ng*



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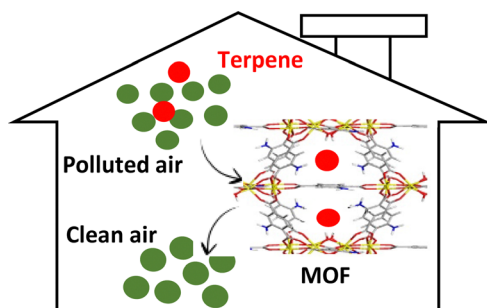
An estradiol-functionalized red-emissive photosensitizer for enhanced and precise photodynamic therapy of breast cancers

Xiuxiu Yue, Tao Guo, Hankun Zhang, Benhua Wang,* Minhuan Lan and Xiangzhi Song*



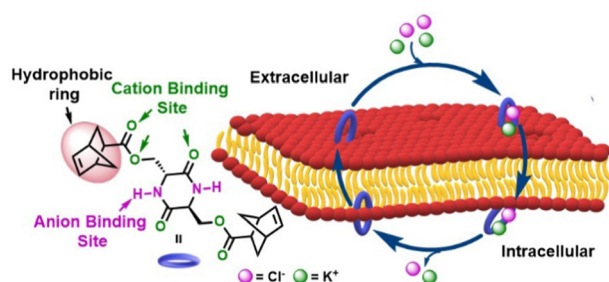
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**Metal–organic frameworks for the capture of α -pinene traces**

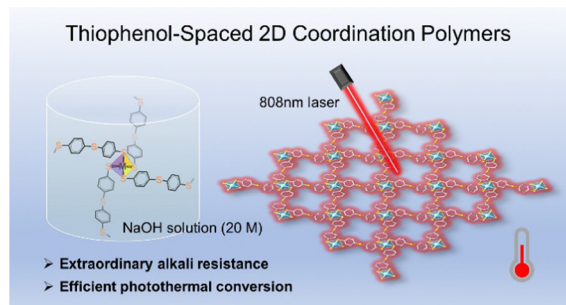
Patrick P. Conti, Kamal Batra, Paul Iacomì, Carla Vieira Soares, Sanchari Dasgupta, Nathalie Steunou, Agnès Lattuati-Derieux, Noëlle Timbart, Mélanie Nicolas, Rukshala Anton, Stéphane Moullarat, Guillaume Maurin and Sabine Devautour-Vinot*

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**Hydrophobic cyclic dipeptides as M^+/Cl^- carriers**

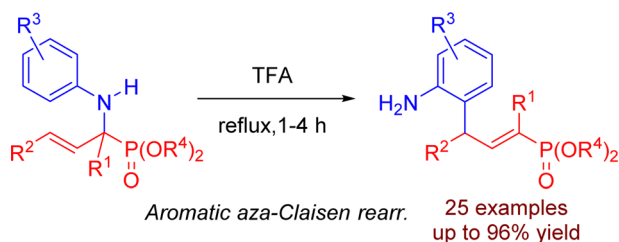
Umatai A. Hale and Nandita Madhavan*

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**Thiophenol-spaced 2D coordination polymers with extraordinary alkali resistance and efficient photothermal conversion**

Qin Hou, Li-Jun Chen, Jing He, Er-Xia Chen, Bo Wang, Xuechou Zhou, Yumei Dai, Liang He* and Qipu Lin*

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**Stereoselective synthesis of vinylphosphonates through aromatic aza-Claisen rearrangement of α -aminophosphonates**

Babak Kaboudin,* Mojtaba Ghashghaee, Haruhiko Fukaya and Hikaru Yanai*

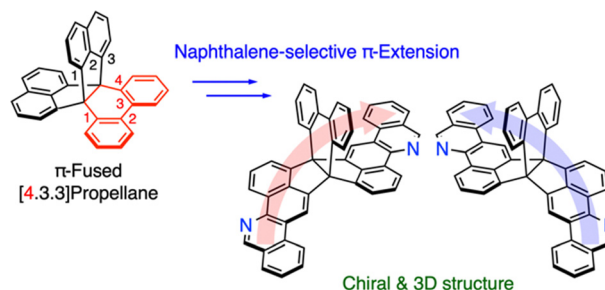


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Efficient synthesis and unit-selective π -extension of π -fused [4.3.3]propellane as a chiral building block

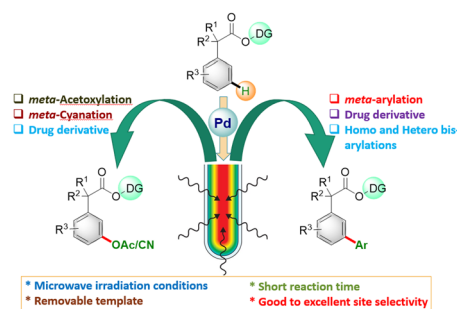
Kenichi Kato,* Seigo Tanaka, Nobuyoshi Seto, Keisuke Wada, Masayuki Gon, Shixin Fa, Shunsuke Ohtani, Kazuo Tanaka and Tomoki Ogoshi*



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Functionalization of arylacetic acids via directing-group-assisted remote *meta*-C–H activation

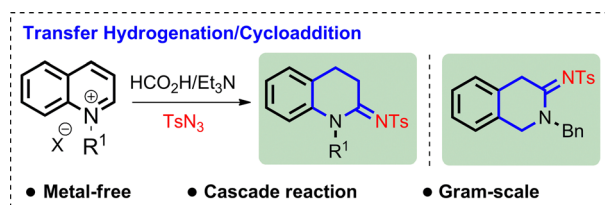
Dasari Srinivas, Kurella Mounika and Gedu Satyanarayana*



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Metal-free transfer hydrogenation/cycloaddition cascade of activated quinolines and isoquinolines with tosyl azides

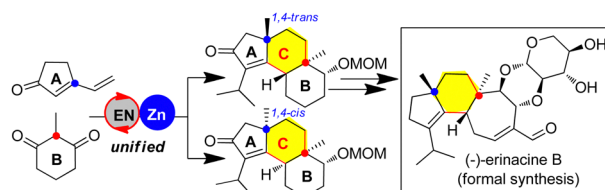
Suman Yadav, Ruchir Kant and Malleswara Rao Kuram*



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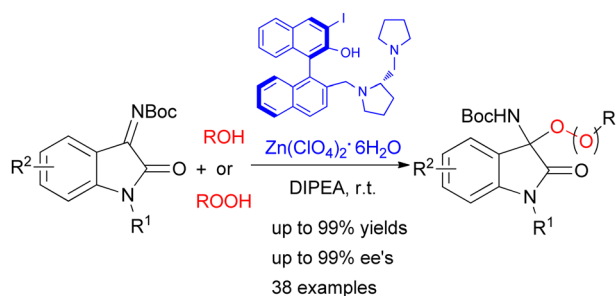
A formal synthesis of (–)-erinacine B enabled by asymmetric organocatalysis

Jiahang Yan, Dongyang Xu, Zhiqiang Zhou, Long He, Jin-Ming Gao,* Hongbo Wei* and Weiqing Xie*



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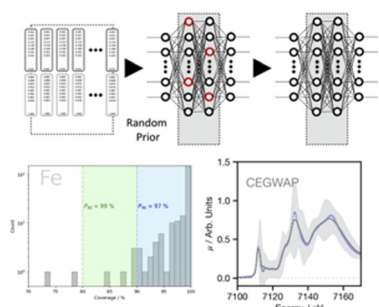
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Zn(II)-catalysed enantioselective addition of alcohols and *tert*-butyl hydroperoxide to isatin-derived *N*-Boc ketimines

Jiaqi Hou, Leipeng Xue, Tianxu Yu, Jiahui Li, Shibo Yu, Chao Yao* and Yue-Ming Li*

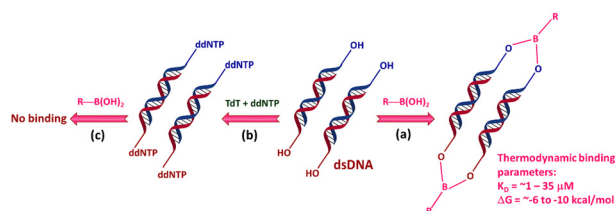
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Uncertainty quantification of spectral predictions using deep neural networks

Sneha Verma, Nik Khadijah Nik Aznan, Kathryn Garside and Thomas J. Penfold*

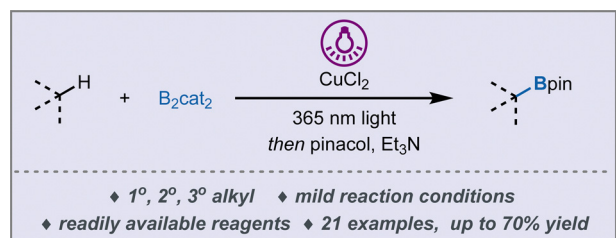
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Direct experimental evidence for the boronic acid-mediated bridging of DNA hybrids

Pranay Amruth Maroju, Anindita Thakur, Ramakrishnan Ganesan* and Jayati Ray Dutta*

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Photoinduced $\text{C}(\text{sp}^3)\text{-H}$ borylation of alkanes mediated by copper(II) chloride

Wen Fang, Huai-Qin Wang, Wei Zhou, Zhi-Wen Luo and Jian-Jun Dai*



CORRECTION

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Correction: Co-electrocatalytic CO₂ reduction mediated by a dibenzophosphole oxide and a chromium complex

Connor A. Koellner, Amelia G. Reid and Charles W. Machan*

