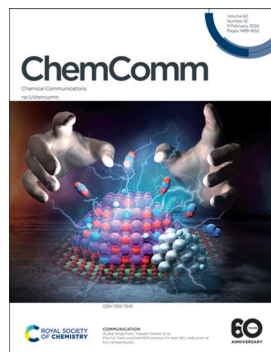


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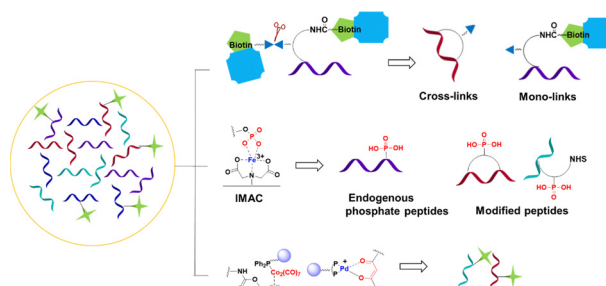
See Ayaka Shigemoto, Yasushi Sekine *et al.*, pp. 1563–1566. Image reproduced by permission of Ayaka Shigemoto from *Chem. Commun.*, 2024, 60, 1563.

HIGHLIGHT

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Chemical reagents for the enrichment of modified peptides in MS-based identification

Shangwei Huangfu, Xianqiang Yu, Ziyu Sun, Biao Jiang* and Hongli Chen*

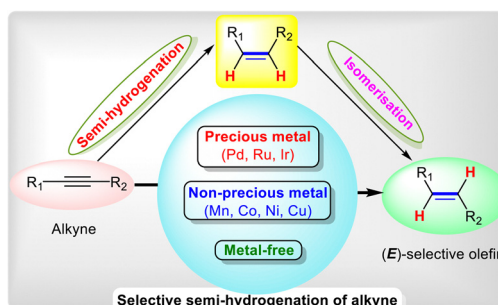


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Recent advances in the selective semi-hydrogenation of alkyne to (E)-olefins

Motahar Sk, Shuvojit Halder, Sourajit Bera and Debasis Banerjee*



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Elemental answers

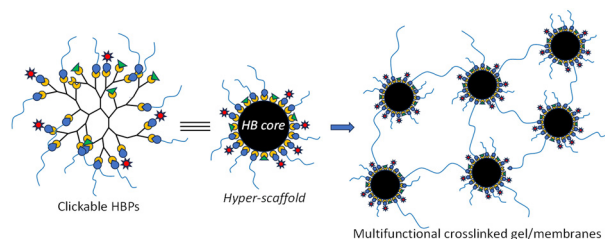


FEATURE ARTICLES

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Hyperbranched polymers: growing richer in flavours with time

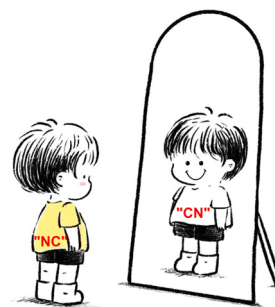
Arun Kumar Gayen, Runa Singla and S. Ramakrishnan*



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Cyanation with isocyanides: recent advances and perspectives

Yingying Shan,* Xiuhua Zhang, Gongle Liu, Jianming Li, Yongwei Liu, Jia Wang and Dianpeng Chen*

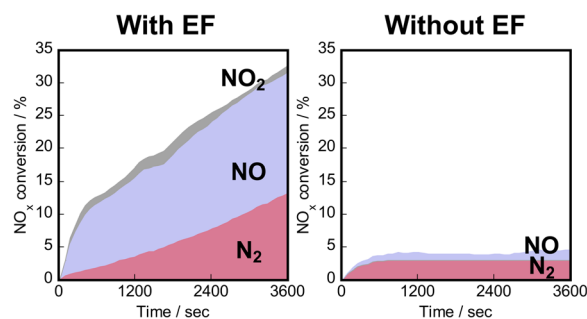


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Electric field-assisted NSR process for lean NO_x reduction at low temperatures

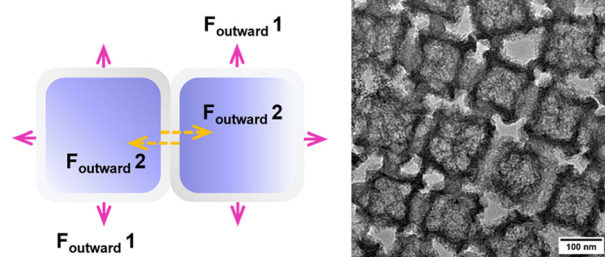
Ayaka Shigemoto,* Yuki Inoda, Chihiro Ukai, Takuma Higo, Kohei Oka and Yasushi Sekine*



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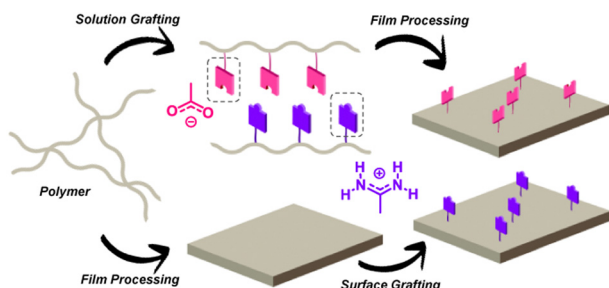
Dual-outward contraction-induced construction of 2D hollow carbon superstructures

Yaqi Zhang, Jiali Lou, Jiamin Wei,* Yajing Zhou, Haifeng Wang, Liangbiao Wang, Qing Wang, Xiaopeng Li* and Xiaokai Song*



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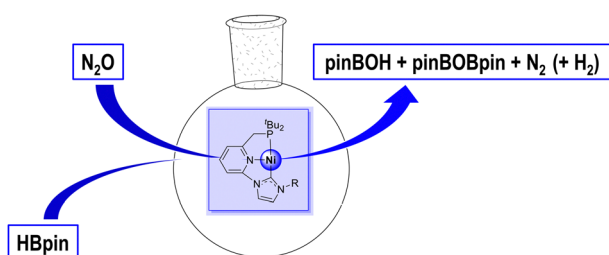
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Highly efficient grafting of hetero-complementary amidinium and carboxylate hydrogen-bonding/ionic pairs onto polymer surfaces

Ana M. Fernandes, Manuel C. Martos-Maldonado, Javier Araujo-Morera, Claudia Solek and David González-Rodríguez*

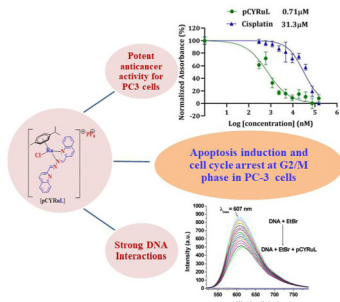
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Nitrous oxide activation by picoline-derived Ni-CNP hydrides

José Bermejo, Isabel Ortega-Lepe, Laura L. Santos, Nuria Rendón, Joaquín López-Serrano, Eleuterio Álvarez and Andrés Suárez*

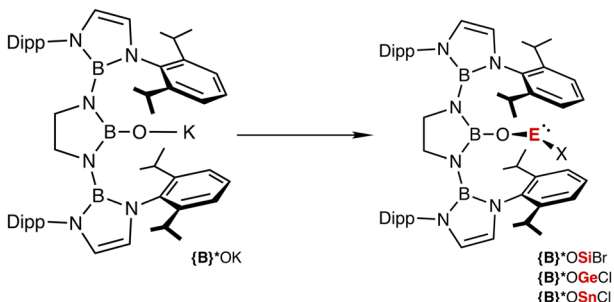
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A bis-quinoline ruthenium(II) arene complex with submicromolar cytotoxicity in castration-resistant prostate cancer cells

Tanveer A. Khan, Kishalay Bhar, Rohit Samanta, Surabhi Bhatt, Mamta Singh, Reshma Rani, Vinit Kumar* and Anuj K. Sharma*

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A bromo(boryloxy) silylene and its heavier analogues

Robin Guthardt* and Cameron Jones*

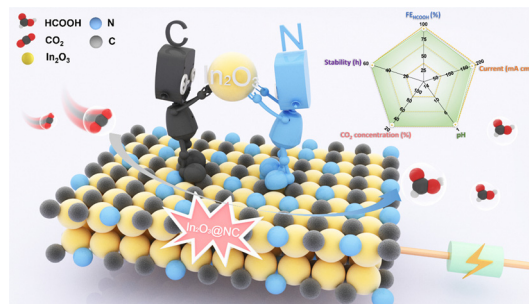


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A N-doped carbon-supported In_2O_3 catalyst for highly efficient CO_2 electroreduction to HCOOH

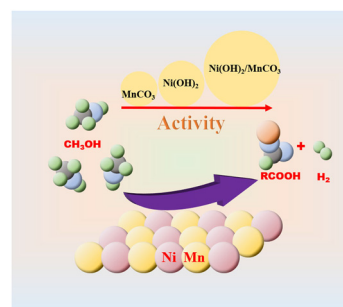
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An active $\text{Ni}(\text{OH})_2/\text{MnCO}_3$ catalyst with efficient synergism for alkaline methanol oxidation

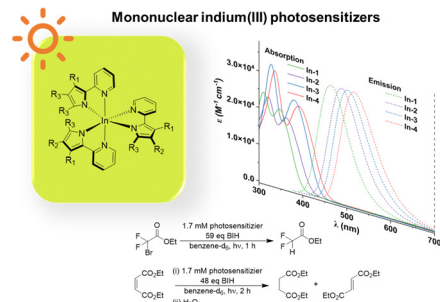
Chunru Liu, Fulin Yang, Yun Yang,* Shuli Wang and Ligang Feng*



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Mononuclear indium(III) photosensitizers for photo-dehalogenation and olefin reduction

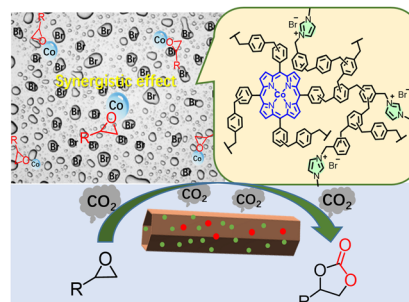
Li-Zhi Fu, Piao He, Jia-Wei Wang, Fan Ma, Chao Liu, Guo Chen and Xiao-Yi Yi*



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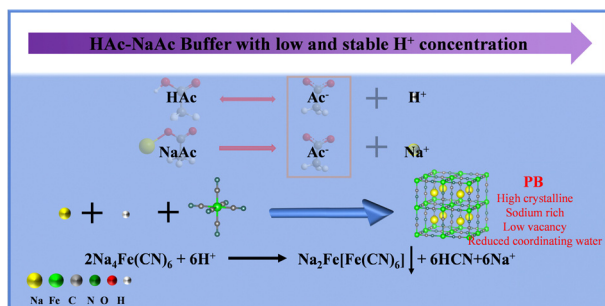
Cobalt porphyrin-based hypercrosslinked ionic polymers as biomimetic nanoreactors for CO_2 conversion to cyclic carbonates

Wei Xu, Zixuan Zhang, Yuanxiang Wu, Kechi Chen and Rongchang Luo*



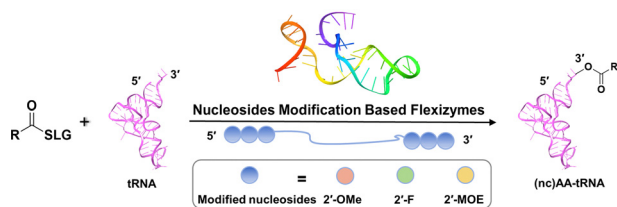
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**Buffer solution induced highly crystalline sodium-rich Prussian blue for sodium storage**

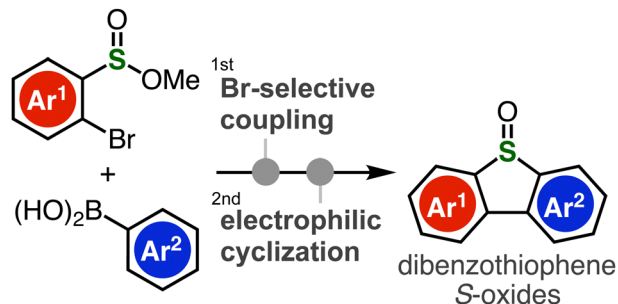
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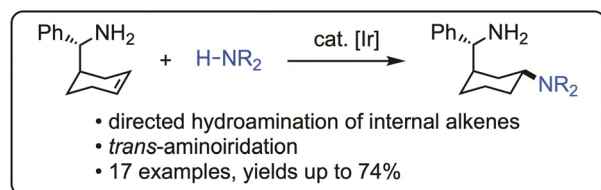
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**Iridium-catalysed hydroamination of internal homoallylic amines**

An T. Ho, Evan P. Venable, Chelsea San Miguel and Kami L. Hull*

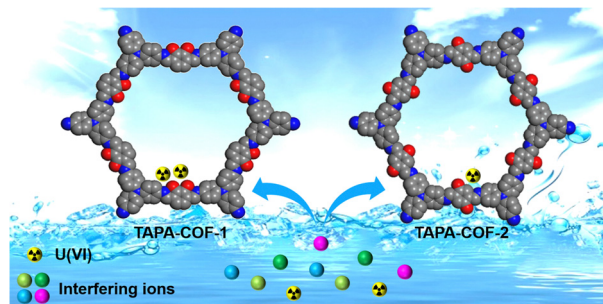


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Tailoring chelating sites in two-dimensional covalent organic framework nanosheets for enhanced uranium capture

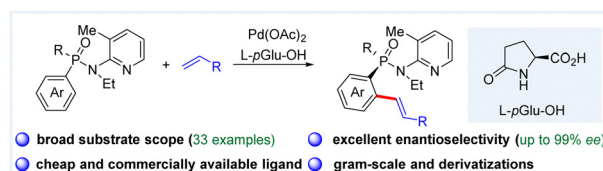
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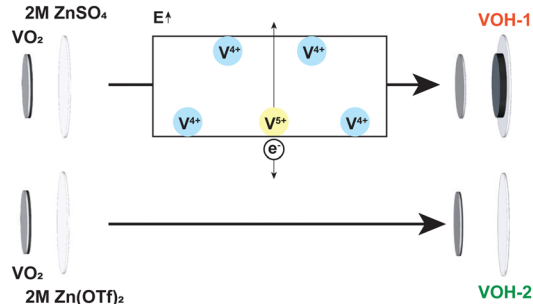
Zi-Jia Chen, Ling-Jie Fan, Pei-Pei Xie, Pu-Fan Qian, Xinquan Hu, Tao Zhou* and Bing-Feng Shi*



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The importance of electrolyte environment during *in situ* self-transformation for synthesizing $V_2O_5 \cdot nH_2O$

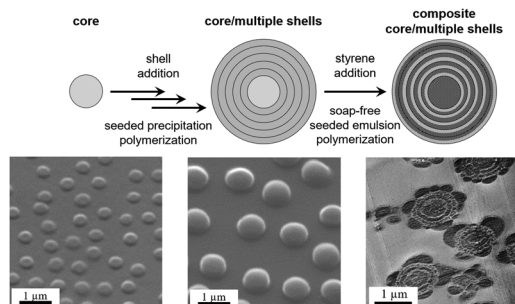
Haijia Quan, Chen Wang, Dongxu Guo, Xiaofeng Wang, Chenglin Sun* and Shenghan Wang*



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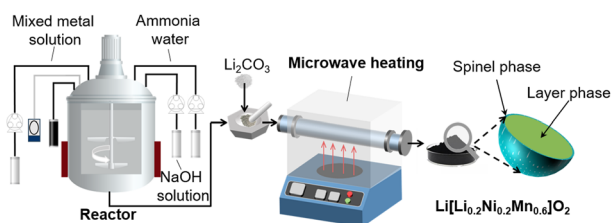
Multi-layer core/shell microgels with internal complexity and their nanocomposites

Haruka Minato, Satoki Ushida, Kentaro Yokouchi and Daisuke Suzuki*



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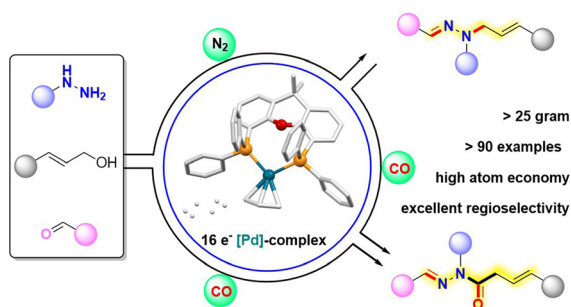
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Microwave-assisted synthesis of Co-free $\text{Li}[\text{Li}_{0.2}\text{Ni}_{0.2}\text{Mn}_{0.6}]\text{O}_2$ cathodes with a spinel-layered coherent structure for high-power Li-ion batteries

Shenggui Wang,* Jinniu Chen, Tian Zhao, Xiaoxia Yang, Lang Qiu, Yuankui Wang, Yang Song, Zhonghua Wu, Xiaodong Guo* and Kun Yu*

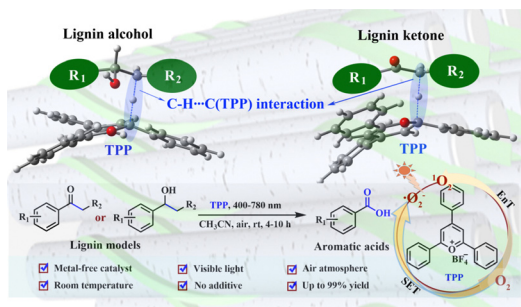
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Palladium-catalyzed allylation and carbonylation: access to allylhydrazones and allyl acylhydrazones

Qianqian Liang, Yan Cai, Wenjun Jiang, Mengdi Pang, Liming Fan and Guoying Zhang*

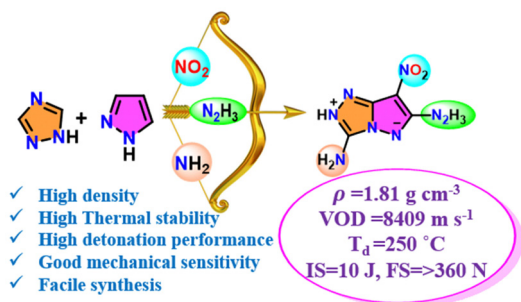
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Visible-light-mediated metal-free regioselective oxidative C–C bond cleavage of lignin dimers to aromatic acids

Ye Meng, Jie Li, Huan Liu, Hongguo Wu* and Hu Li*

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Zwitterionic fused pyrazolo-triazole based high performing energetic materials

Parasar Kumar, Navaneet Kumar, Vikas D. Ghule and Srinivas Dharavath*

