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See Thalappil Pradeep *et al.*, pp. 1446–1470.

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Inside cover
See Tomasz Grzyb *et al.*, pp. 1692–1702.

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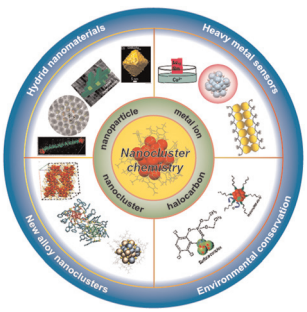
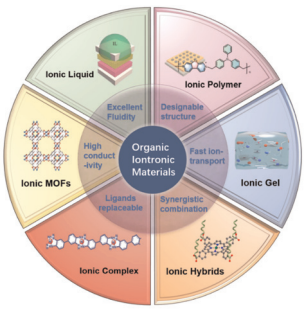
REVIEWS





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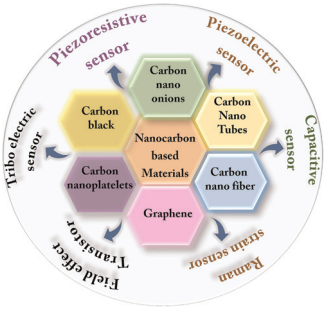

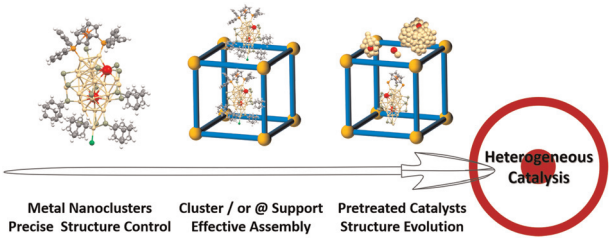

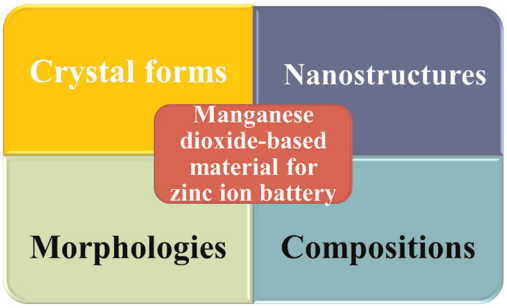

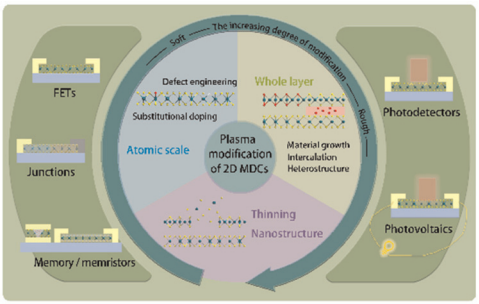

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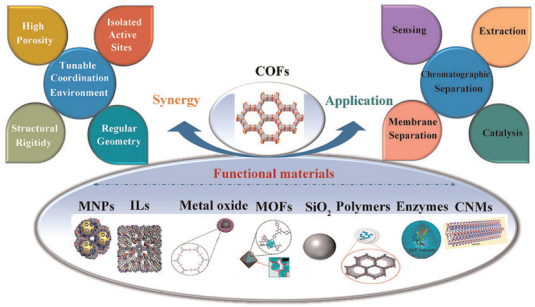
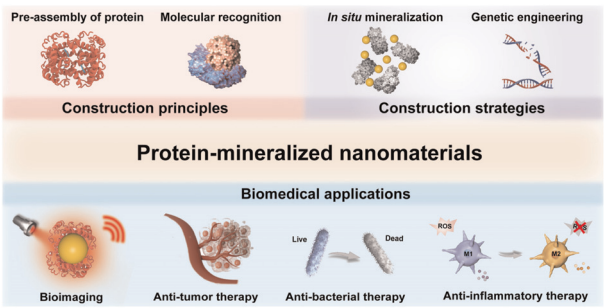


Recent progress in the synthesis and applications of covalent organic framework-based composites

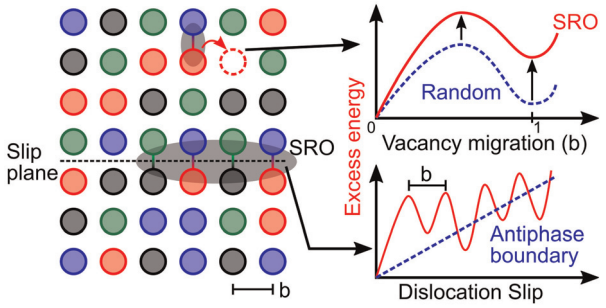
Mingxuan Ma, Yonghao Yang, Zhonghua Huang, Fuhong Huang, Quanliang Li and Hongyu Liu*

MINIREVIEWS



Protein-guided biomimetic nanomaterials: a versatile theranostic nanoplatform for biomedical applications

Da-Gui Zhang, Yu-Jing Pan, Biao-Qi Chen,* Xiao-Chang Lu, Qin-Xi Xu, Pei Wang, Ranjith Kumar Kankala, Ni-Na Jiang, Shi-Bin Wang and Ai-Zheng Chen*



Deformation mechanisms in high entropy alloys: a minireview of short-range order effects

Novin Rasooli, Wei Chen* and Matthew Daly*

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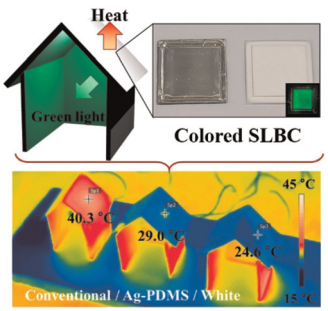

Smart building block with colored radiative cooling devices and quantum dot light emitting diodes

Sang Yeop Lee, Dongwoo Chae, Jungho Kim, Seongkeun Oh, Hangyu Lim, Jiwan Kim,* Heon Lee* and Soong Ju Oh*

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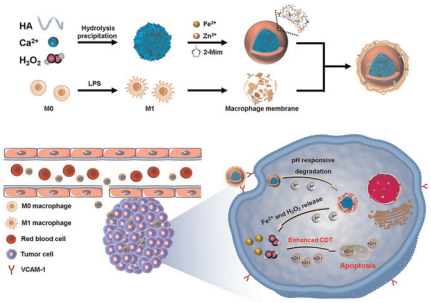

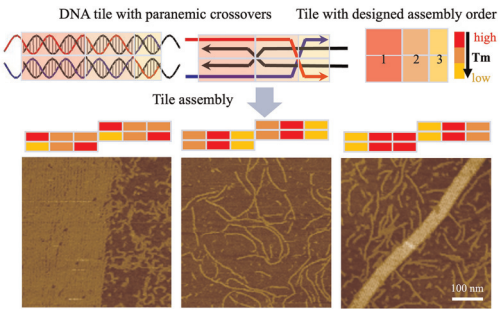

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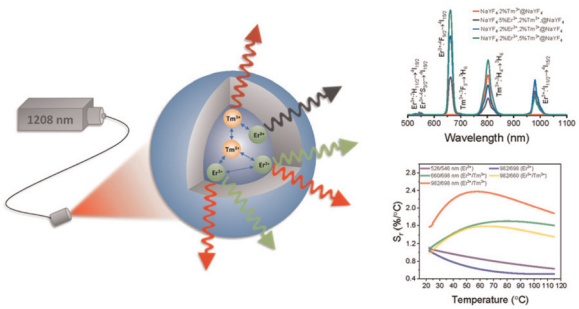

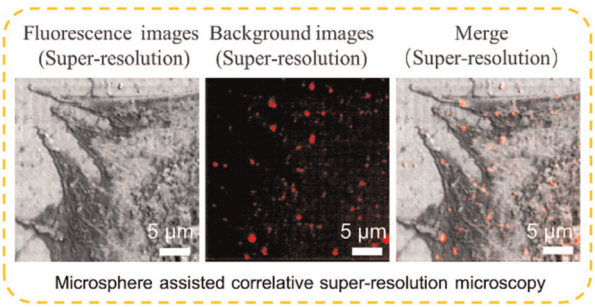

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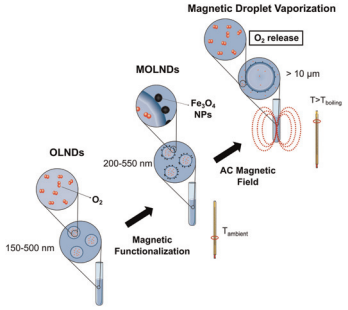
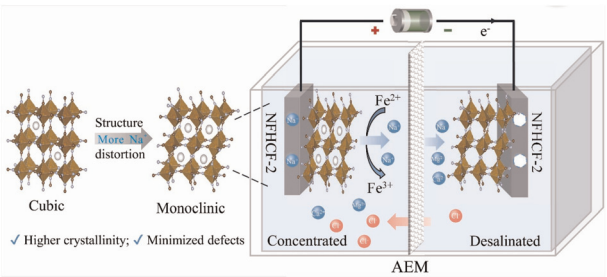


Dual-responsive magnetic nanodroplets for controlled oxygen release *via* ultrasound and magnetic stimulation

Simone Galati,* Marta Vassallo,* Marta Vicentini, Marta Vallino, Federica Celegato, Gabriele Barrera, Daniele Martella, Elena S. Olivetti, Alessio Sacco, Jessica Petiti, Carla Divieto, Paola Tiberto, Alessandra Manzin and Adriano Troia

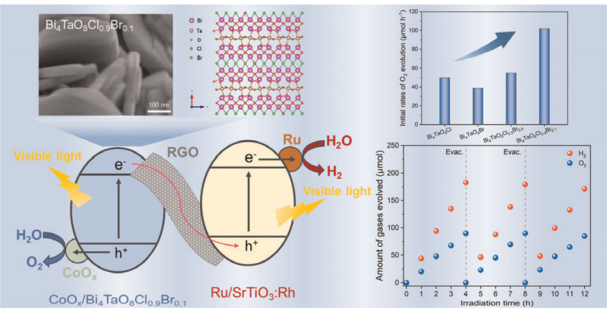
1724



Structural distortion-induced monoclinic sodium iron hexacyanoferrate as a high-performance electrode for rocking-chair desalination batteries

Yuliang Wu, Junkun Huang, Chaolin Li and Wenhui Wang*

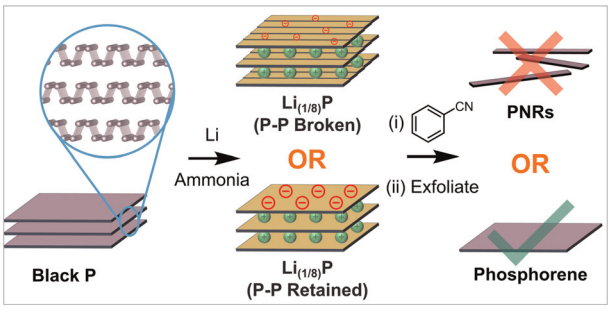
1733



Modification of an oxyhalide solid-solution photocatalyst with an efficient O_2-evolving cocatalyst and electron mediator for two-step photoexcitation overall water splitting

Wenzheng Sun, Ying Luo, Jun Xu, Qiaoqi Guo, Lidan Deng, Zheng Wang* and Hong He*

1742



Investigating the mechanism of phosphorene nanoribbon synthesis by discharging black phosphorus intercalation compounds

Rebecca R. C. Shutt, Eva S. Y. Aw, Qili Liu, Jasper Berry-Gair, Hector J. Lancaster, Samia Said, Thomas S. Miller, Furio Corà, Christopher A. Howard* and Adam J. Clancy*

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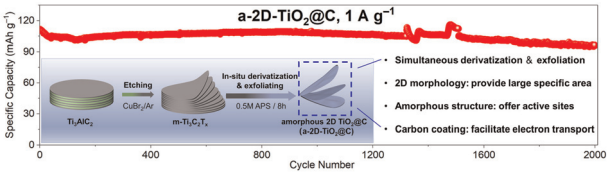

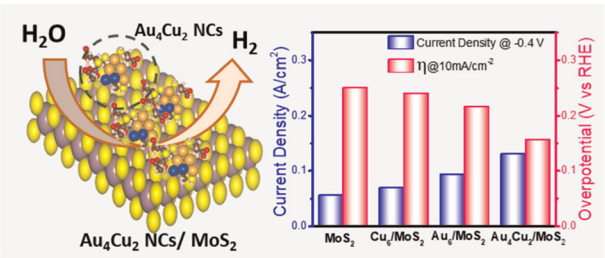

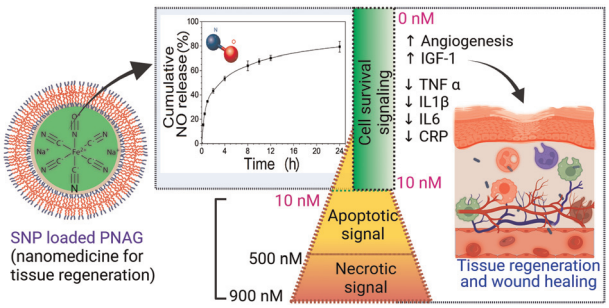

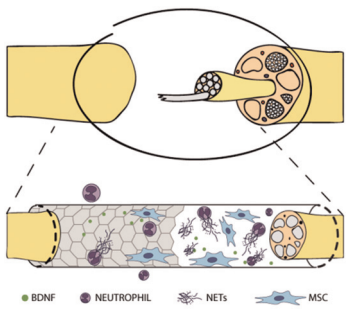

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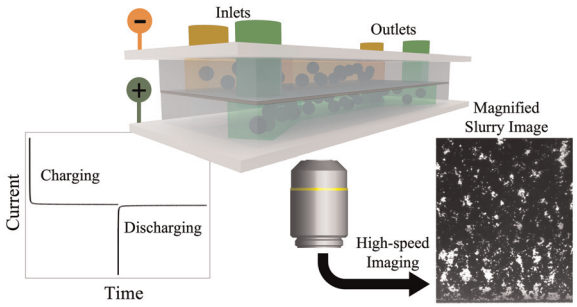
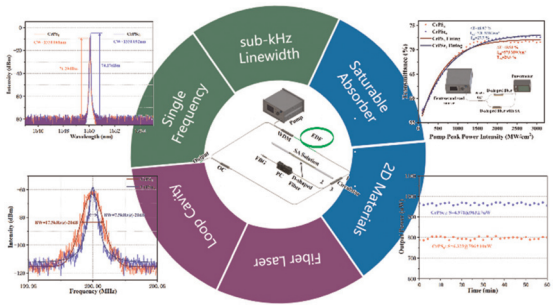


Direct observation of carbon slurry flow behavior and its effect on electrochemical performance in a microfluidic electrochemical flow capacitor

Brandon Stacks, Alberto Esteban-Linares, Matthew Galazzo, Haoxiang Luo* and Deyu Li*

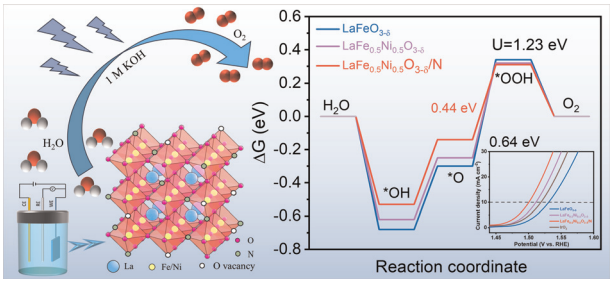
1817



Single-frequency fiber lasers based on metal thiophosphites with sub-kHz linewidths

Yiyu Gan, Wenyao Zhang and Qiao Wen*

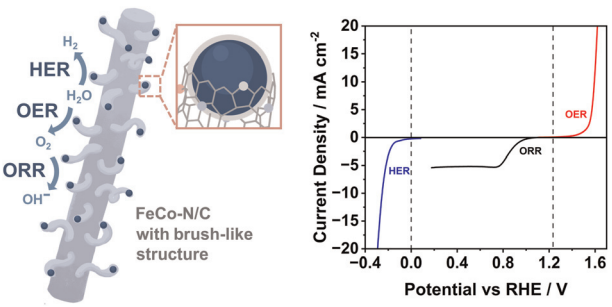
1823



A motif for B/O-site modulation in $LaFeO_3$ towards boosted oxygen evolution

Wenli Kang, Zhishan Li,* Jinsong Wang, Shaopeng Wu, Yiguang Gai, Guanghao Wang, Zhouhang Li, Xing Zhu, Tao Zhu, Hua Wang, Kongzhai Li* and Chundong Wang

1833



Trifunctional electrocatalysts based on a bimetallic nanoalloy and nitrogen-doped carbon with brush-like heterostructure

Yuyun Irmawati, Davin Adinata Tan, Falihah Balqis, Ferry Iskandar and Afriyanti Sumboja*

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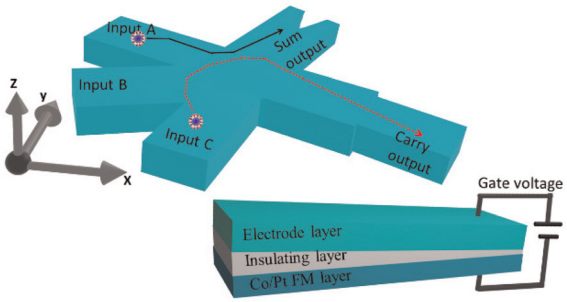

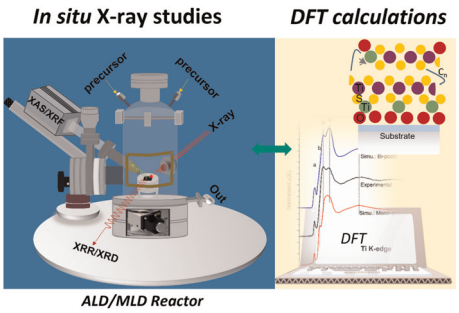

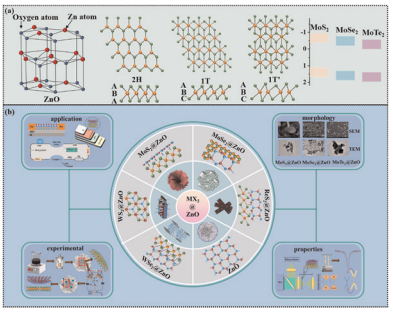

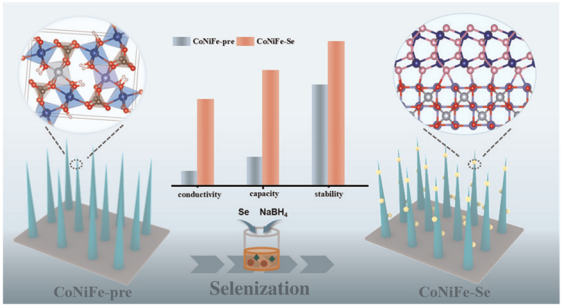

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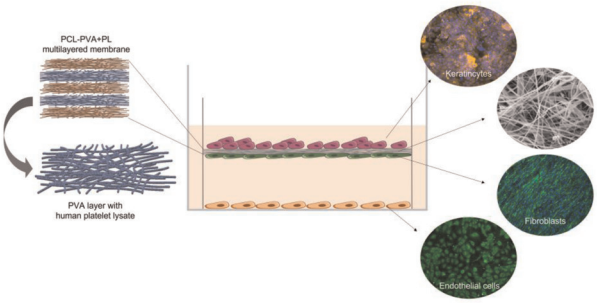

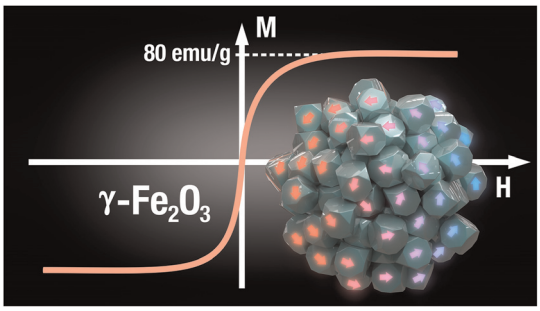

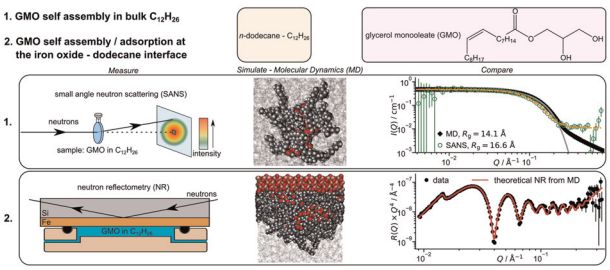

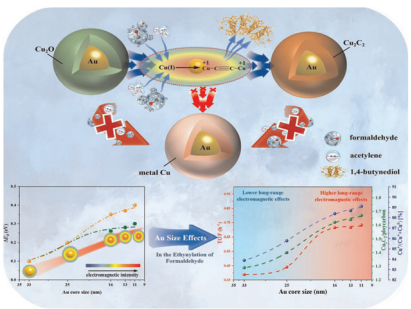

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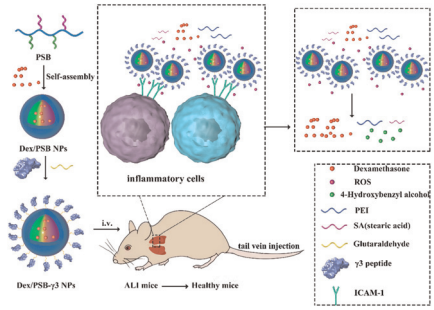
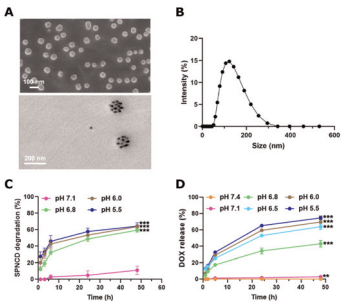


ICAM-1 targeted and ROS-responsive nanoparticles for the treatment of acute lung injury

Yu Ran, Shanmei Yin, Pei Xie, Yaxue Liu, Ying Wang and Zongning Yin*

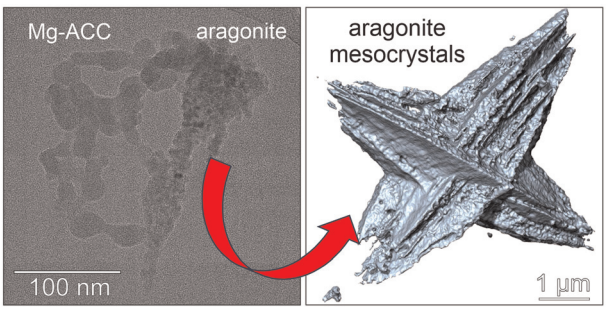
1999



Anti-tumor effect of pH-sensitive drug-loaded nanoparticles optimized *via* an integrated computational/experimental approach

Hunter A. Miller, Yapei Zhang, Bryan Ronain Smith* and Hermann B. Frieboes*

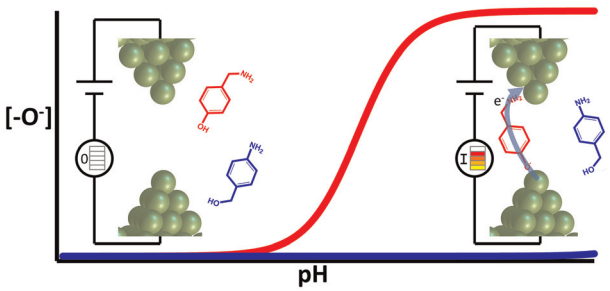
2012



Formation and properties of spindle-shaped aragonite mesocrystals from Mg-bearing solutions

Zsombor Molnár,* Péter Pekker, Aleksander Rečnik and Mihály Pósfai

2022



Phenol is a pH-activated linker to gold: a single molecule conductance study

Brent Lawson, Hannah E. Skipper and Maria Kamenetska*

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