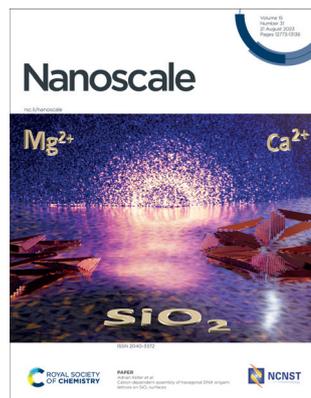


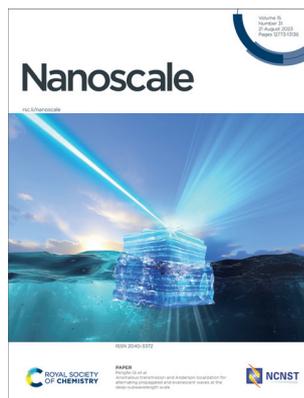
IN THIS ISSUE

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EDITORIAL

12785

Introduction to emerging concepts in nucleic acids: structures, functions and applications

Dhiraj Bhatia,* Prabal Kumar Maiti,* Xiaogang Liu* and Arun Richard Chandrasekaran*

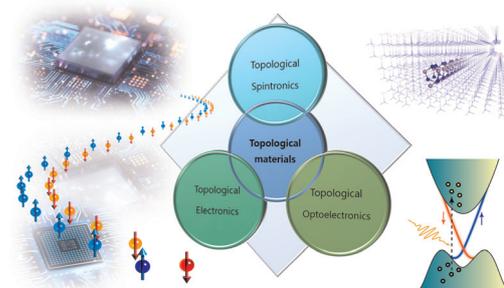


REVIEWS

12787

Topological quantum devices: a review

Kyung-Hwan Jin, Wei Jiang, Gurjyot Sethi and Feng Liu*



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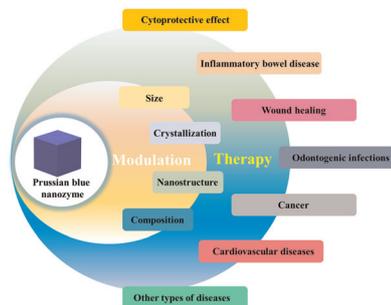


REVIEWS

12818

Prussian blue nanozymes: progress, challenges, and opportunities

Hongliang He, Mengmeng Long, Yifan Duan and Ning Gu*

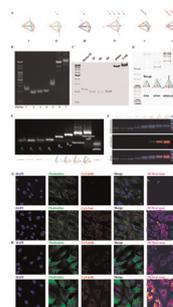


MINIREVIEWS

12840

Functional micro-RNA drugs acting as a fate manipulator in the regulation of osteoblastic death

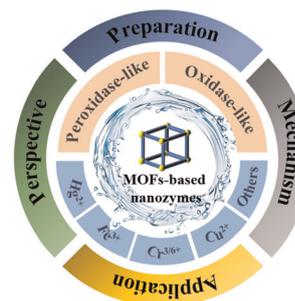
Zhengwen Cai, Fengshuo Liu, Yong Li, Long Bai, Maogeng Feng, Songhang Li, Wenjuan Ma and Sirong Shi*



12853

Advances in the application of metal–organic framework nanozymes in colorimetric sensing of heavy metal ions

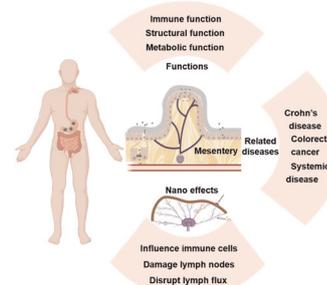
Li Zhang, Xiaoya Bi, Xiaohong Liu, Yi He, Libo Li* and Tianyan You*



12868

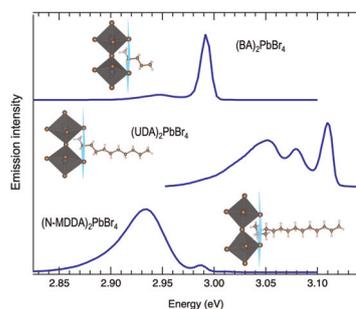
The implication of mesenteric functions and the biological effects of nanomaterials on the mesentery

Guanyu Liu, Lin Bao, Chunying Chen, Jianfu Xu* and Xuejing Cui*



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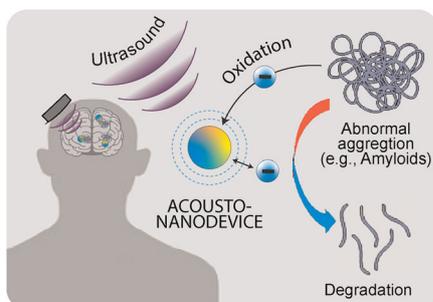
12880



Impact of the organic cation on the band-edge emission of two-dimensional lead–bromide perovskites

Seda Kutkan, Balaji Dhanabalan, Miao-Ling Lin, Ping-Heng Tan, Alexander Schleusener, Milena P. Arciniegas and Roman Krahn*

12889

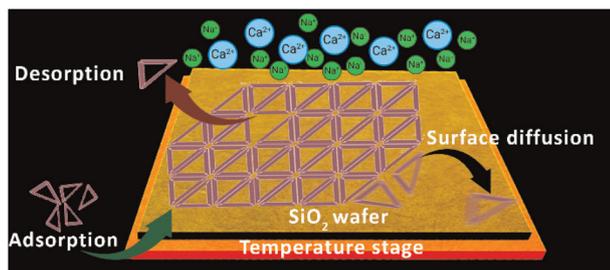


Protein redox by a piezoelectric acousto-nanodevice

Sophia Selvarajan, Hyunji Shim, Eunjeong Byun, Albert Kim* and Seung Hyun Song*

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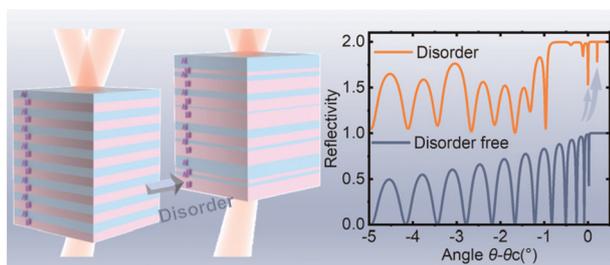
12894



Cation-dependent assembly of hexagonal DNA origami lattices on SiO₂ surfaces

Bhanu Kiran Pothineni, Guido Grundmeier and Adrian Keller*

12907



Anomalous transmission and Anderson localization for alternating propagated and evanescent waves at the deep-subwavelength scale

Changlin Sun, Haiyi Liu, Pengfei Qi,* Liguang Zhu, Lanjun Guo, Lie Lin and Weiwei Liu

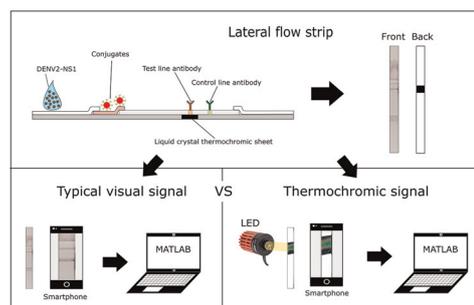


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12915

Development of a thermochromic lateral flow assay to improve sensitivity for dengue virus serotype 2 NS1 detection

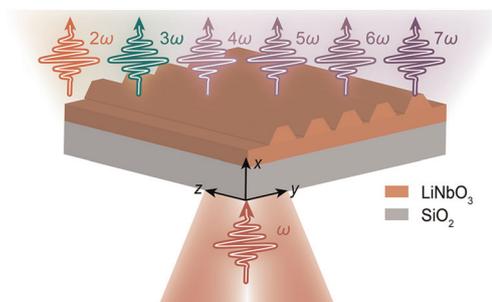
Thithawat Trakoolwilaiwan, Yasuhiro Takeuchi, Terence S. Leung, Matej Sebek, Liudmyla Storozhuk, Linh Nguyen, Le Duc Tung and Nguyen Thi Kim Thanh*



12926

Efficient second- and higher-order harmonic generation from LiNbO₃ metasurfaces

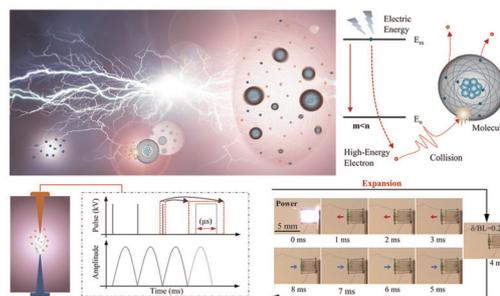
Yun Zhao, Zhaoxi Chen, Cheng Wang,* Yuanmu Yang* and Hong-Bo Sun*



12933

A novel electric stimulus-responsive micro-actuator for powerful biomimetic motions

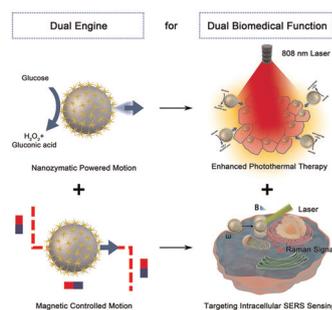
Ruide Yun,* Jingyu Che, Zhiwei Liu, Xiaojun Yan and Mingjing Qi*



12944

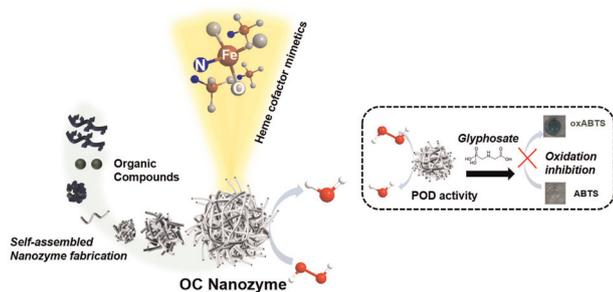
Nanozymatic magnetic nanomotors for enhancing photothermal therapy and targeting intracellular SERS sensing

Shimi Liu, Dandan Xu,* Junling Chen, Na Peng, Tao Ma and Feng Liang*



PAPERS

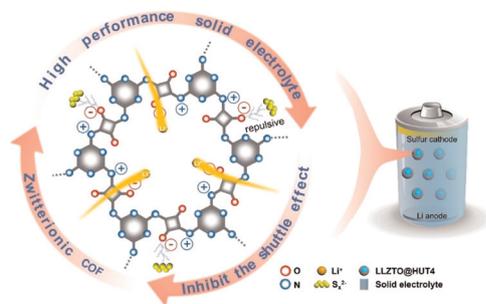
12954



Organic compound-based nanozymes for agricultural herbicide detection

Dong Hoon Lee and Mohammed Kamruzzaman*

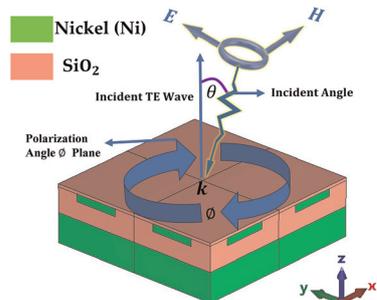
12961



Squaraine-linked zwitterionic COF modified LLZTO nanoparticles for high performance polymer composite electrolytes in Li-S batteries

Shuo Wang, Mengke Li, Gaojie Yan, Zhipeng Yang, Yuchao Guo, Xi Sun, Yue Wang, Yi Feng,* Huili Ding* and Xiaojie Zhang*

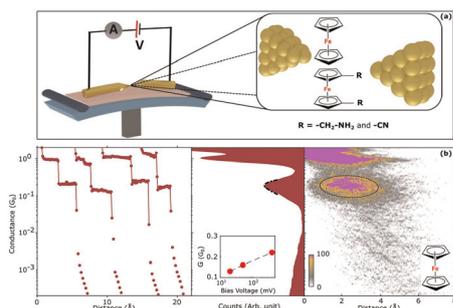
12972



Broadband near unity absorption meta-structure for solar thermophotovoltaic systems and optical window applications

Md Mohiuddin Soliman, Mohammad Tariqul Islam,* Touhidul Alam, Norbahiah Misran, Sharul Kamal Abdul Rahim, Ahmed Alzamil, Muhammad E. H. Chowdhury, Ahmed S. Alshammari, Haitham Alsaif and Mohamed S. Soliman

12995



Resonant transport in a highly conducting single molecular junction via metal-metal covalent bond

Biswajit Pabi, Štěpán Marek, Adwitiya Pal, Puja Kumari, Soumya Jyoti Ray, Arunabha Thakur, Richard Korytár and Atindra Nath Pal*

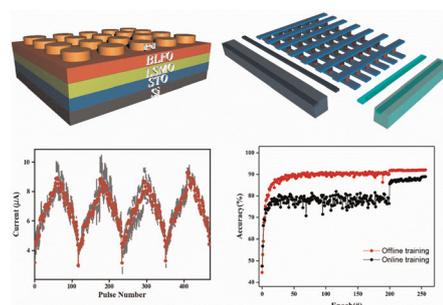


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13009

Silicon based $\text{Bi}_{0.9}\text{La}_{0.1}\text{FeO}_3$ ferroelectric tunnel junction memristor for convolutional neural network application

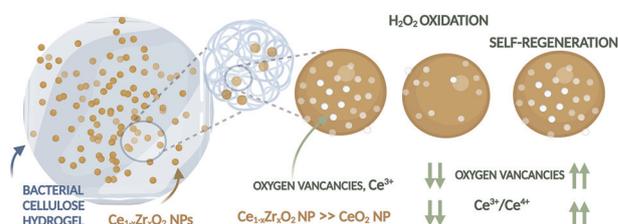
Gongjie Liu, Wei Wang, Zhenqiang Guo, Xiaotong Jia, Zhen Zhao, Zhenyu Zhou, Jiangzhen Niu, Guojun Duan and Xiaobing Yan*



13018

$\text{Ce}_{1-x}\text{Zr}_x\text{O}_2$ nanoparticles in bacterial cellulose, bio-based composites with self-regenerating antioxidant capabilities

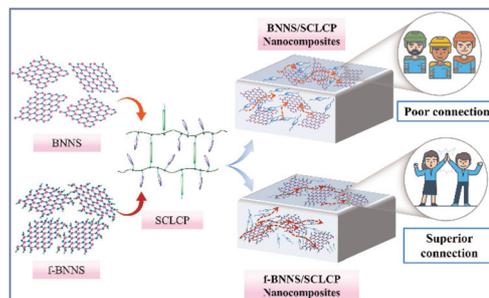
Johanna van Gent* and Anna Roig*



13025

Improved thermal conductivity and excellent electrical insulation properties of polysiloxane nanocomposite-incorporated functional boron nitride sheets *via in situ* polymerization

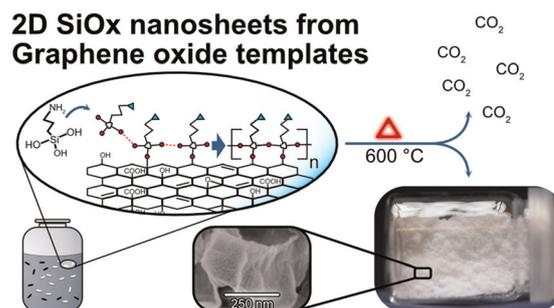
Xiaole Zheng, Yingjie Zhan, Jun Shi, Mangeng Lu and Kun Wu*



13037

Large-scale synthesis of 2D-silica (SiO_x) nanosheets using graphene oxide (GO) as a template material

Björn K. Birdsong, Billy W. Hoogendoorn, Fritjof Nilsson, Richard L. Andersson, Antonio J. Capezza, Mikael S. Hedenqvist, Stefano Farris, Antonio Guerrero and Richard T. Olsson*



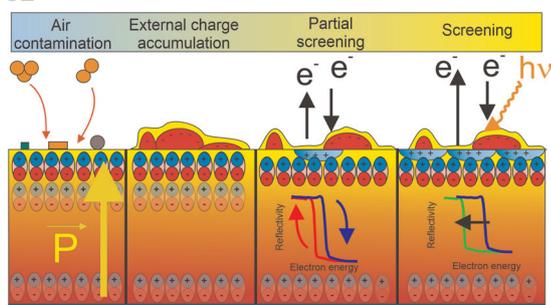
13049



Multifunctional metal selenide-based materials synthesized via a one-pot solvothermal approach for electrochemical energy storage and conversion applications

Bhimanaboina Ramulu, Shaik Junied Arbaz, Manchi Nagaraju and Jae Su Yu*

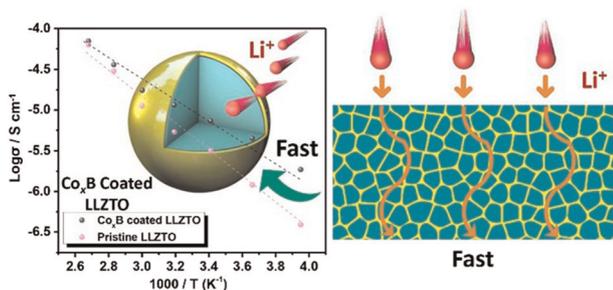
13062



Surface charge dynamics on air-exposed ferroelectric $\text{Pb}(\text{Zr},\text{Ti})\text{O}_3(001)$ thin films

Laura E. Abramiuc,* Liviu C. Tănase, Mauricio J. Prieto, Lucas de Souza Caldas, Aarti Tiwari, Nicoleta G. Apostol, Marius A. Huşanu, Cristina F. Chirilă, Lucian Trupină, Thomas Schmidt, Lucian Pintilie and Cristian M. Teodorescu

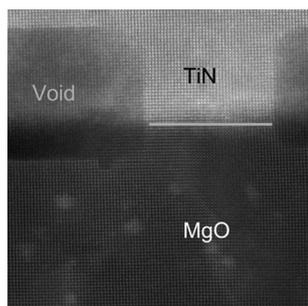
13076



Reactive boride as a multifunctional interface stabilizer for garnet-type solid electrolyte in all-solid-state lithium batteries

Mingzhe Chen,* Jing Zhang, Jiliang Zhang, Binkai Yu, Limin Zhou, Yao Xiao, Xu Gao, Jin Xiao,* Chunsheng Li,* Yan Sun,* Huakun Liu, Shixue Dou and Shulei Chou*

13086



Chemical potential gradient induced formation of Kirkendall voids at the epitaxial TiN/MgO interface

Xiaoman Zhang, W. J. Meng* and Andrew C. Meng*

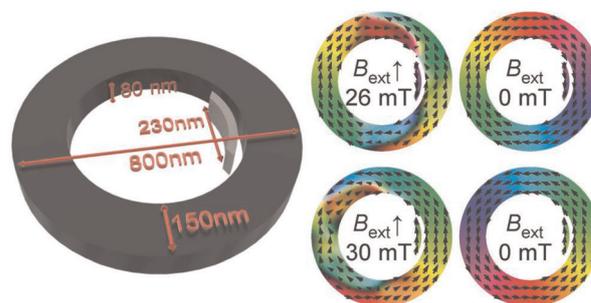


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13094

Control of vortex chirality in a symmetric ferromagnetic ring using a ferromagnetic nanoelement

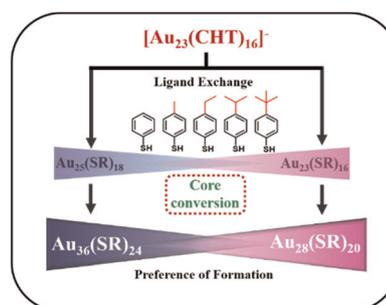
Uladzislau Makartsou,* Mathieu Moalic, Mateusz Zelent, Michal Mruczkiewicz and Maciej Krawczyk*



13102

Control over product formation and thermodynamic stability of thiolate-protected gold nanoclusters through tuning of surface protecting ligands

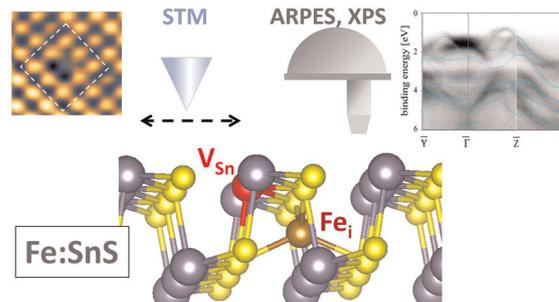
Manju P. Maman, Eyyakkandy Nida Nahan, Greeshma Suresh, Arunendu Das, Akhil S. Nair, Biswarup Pathak and Sukhendu Mandal*



13110

Defect pairing in Fe-doped SnS van der Waals crystals: a photoemission and scanning tunneling microscopy study

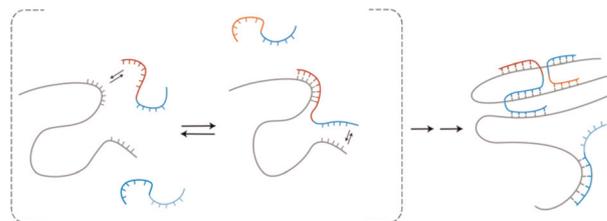
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13120

Sequence-dependent folding of monolayered DNA origami domains

Sabrina Gambietz, Lena J. Stenke and Barbara Saccà*



CORRECTION

13133

Correction: A graphene/h-BN MEMS varactor for sub-THz and THz applications

Piotr A. Drózdź,* Maciej Haras,* Aleksandra Przewłoka,* Aleksandra Krajewska, Maciej Filipiak, Mateusz Słowikowski, Bartłomiej Stonio, Karolina Czerniak-Łosiewicz, Zygmunt Mierczyk, Thomas Skotnicki and Dmitri Lioubtchenko

