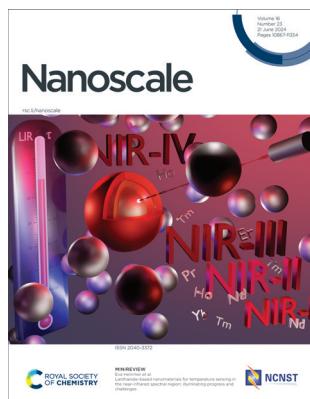


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### Cover

See Eva Hemmer et al.,  
pp. 10975–10993.

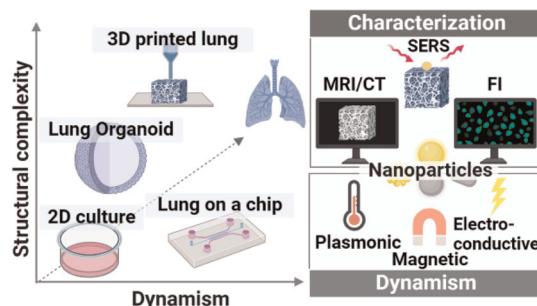
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2024, **16**, 10975.

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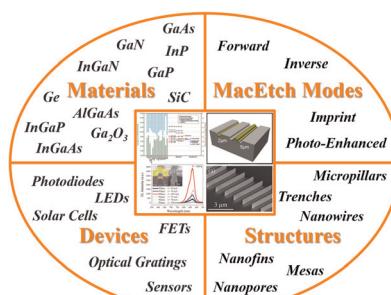
Laura Fallert, Ane Uriotia-Asua, Amaia Cipitria and Dorleta Jimenez de Aberasturi\*



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Sami Znati, Juwon Wharwood, Kyle G. Tezanos, Xiuling Li and Parsian K. Mohseni\*



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**Solution-processed colloidal quantum dots for internet of things**

Diyar Mousa Othman, Julia Weinstein, Nathaniel Huang, Wenlong Ming, Quan Lyu\* and Bo Hou\*

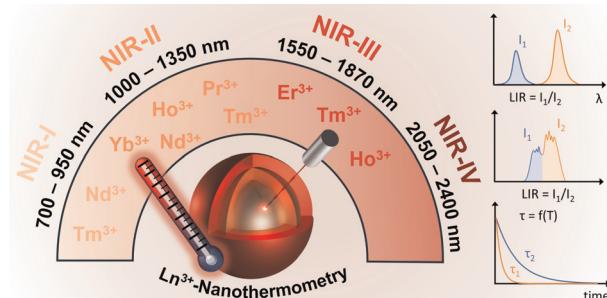


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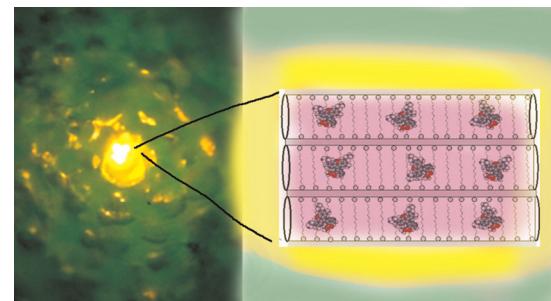
Abigale Puccini, Nan Liu and Eva Hemmer\*



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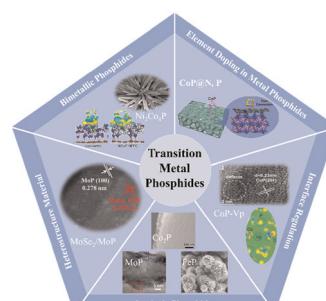
Igor Sokolov



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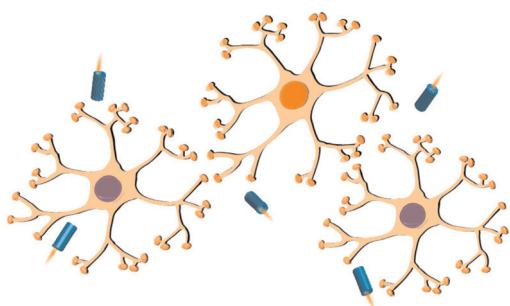
**A review of metal phosphides with catalytic effects in Li–S batteries: boosting the redox kinetics**

Bin Guan, Xiaotian Gao,\* Zhenhua Wang\* and Kening Sun



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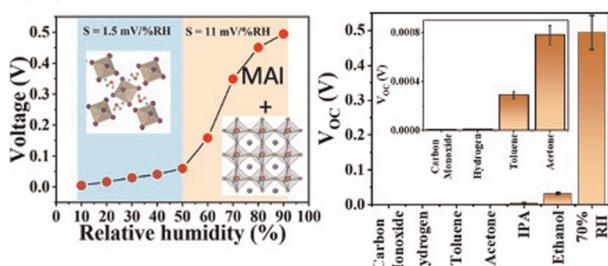


## Micro/nanomotors for neuromodulation

Yulin Huang and Fei Peng\*

## COMMUNICATION

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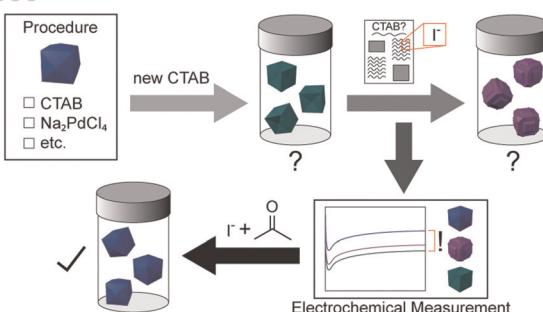


## Self-powered humidity sensors based on zero-dimensional perovskite-like structures with fast response and high stability

Sumit Kumar Sharma, Abinash Tiwari, Mir Arjumand and Aswani Yella\*

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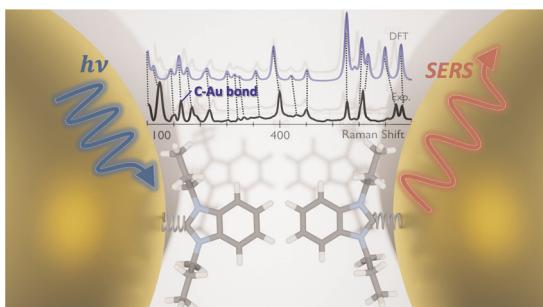
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Gabriel C. Halford, Sean P. McDarby, Sebastian Hertle, Anne F. Kiely, Jessica T. Luu, Claire J. Wang and Michelle L. Personick\*

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Lucille Kuster, Marilyne Bélanger-Bouliga, Thomas E. Shaw, Titel Jurca, Ali Nazemi\* and Mathieu Frenette\*

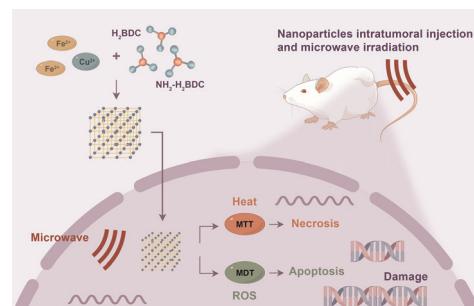


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**Fe-doped Cu-based bimetallic metal–organic frameworks as nanoscale microwave sensitizers for enhancing microwave thermal and dynamic therapy for hepatocellular carcinoma**

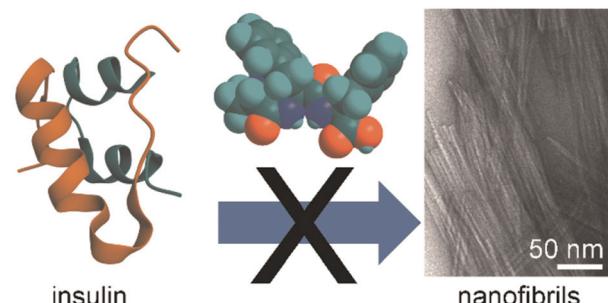
Xi Luo, Han-Yao Sun, Shang-Yu Lu, Yan Zhou, Zi-Qing Xu, Nan Zhong, Yi-Shi Lu, Shou-Ju Wang,\* Hai-Bin Shi\* and Wei Tian\*



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**Insulin amyloid fibril formation reduction by tripeptide stereoisomers**

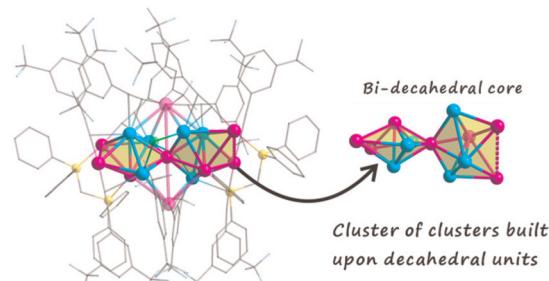
Beatrice Rosetti, Slavko Kralj, Erica Scarel, Simone Adorinni, Barbara Rossi, Attilio V. Vargiu, Ana M. Garcia\* and Silvia Marchesan\*



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Guocheng Deng, Taeyoung Ki, Seungwoo Yoo, Xiaolin Liu, Kangjae Lee, Megalamane S. Bootharaju\* and Taeghwan Hyeon\*

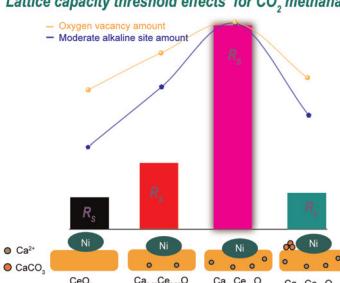


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**Lattice capacity-dependent activity for CO<sub>2</sub> methanation: crafting Ni/CeO<sub>2</sub> catalysts with outstanding performance at low temperatures**

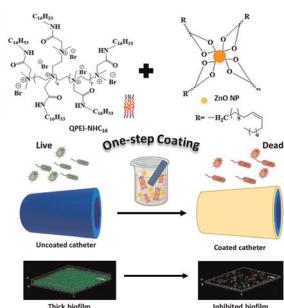
Kun Liu,\* Yixin Liao, Peng Wang, Xiuzhong Fang, Jia Zhu, Guangfu Liao\* and Xianglan Xu\*

*Lattice capacity threshold effects for CO<sub>2</sub> methanation*



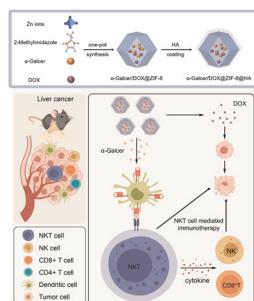
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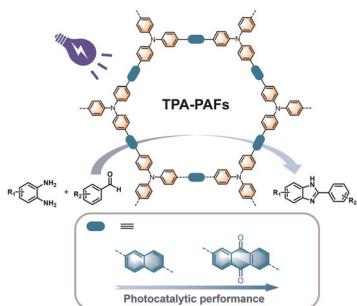
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**A natural killer T cell nanoagonist-initiated immune cascade for hepatocellular carcinoma synergistic immunotherapy**

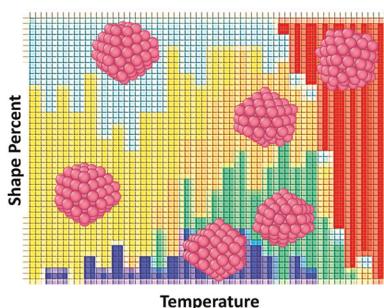
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Huizhong Zhang, Mohd Ahmed Khan, Tianyu Yan and Kristen A. Fitchhorn\*

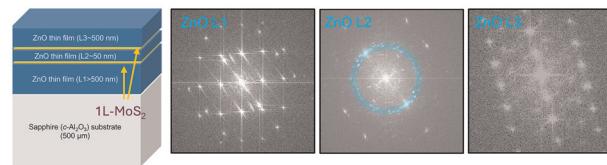


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## Structural alignment of ZnO columns across multiple monolayer MoS<sub>2</sub> layers as compliant substrates

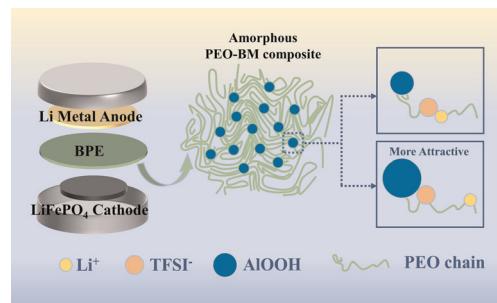
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## Different-grain-sized boehmite nanoparticles for stable all-solid-state lithium metal batteries

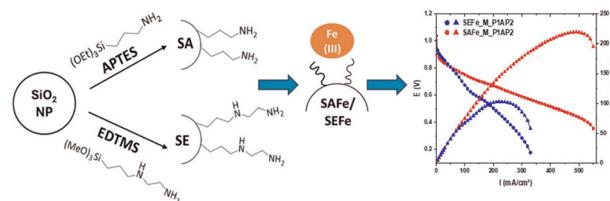
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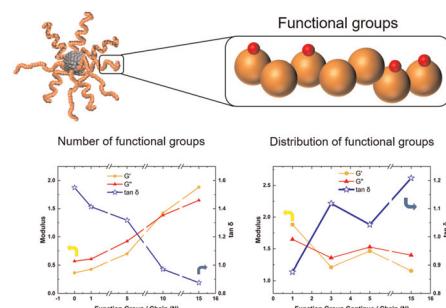
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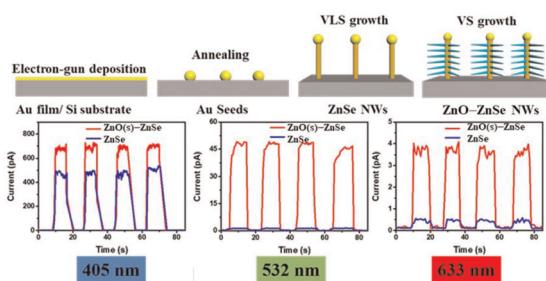
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## PAPERS

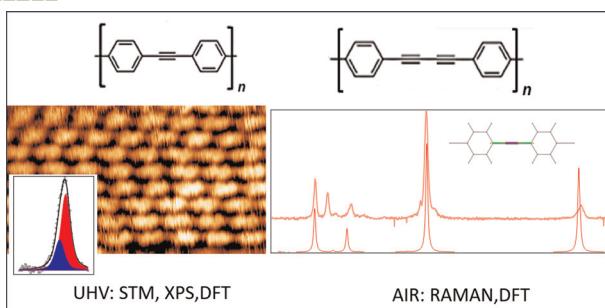
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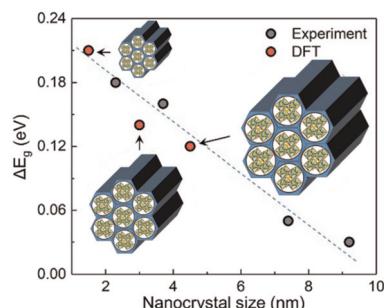
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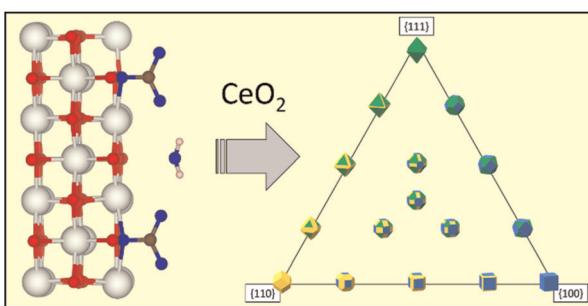
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Samuel Moxon, Adam R. Symington, Joshua S. Tse, Joseph M. Flitcroft, Jonathan M. Skelton, Lisa J. Gillie, David J. Cooke, Stephen C. Parker and Marco Molinari\*

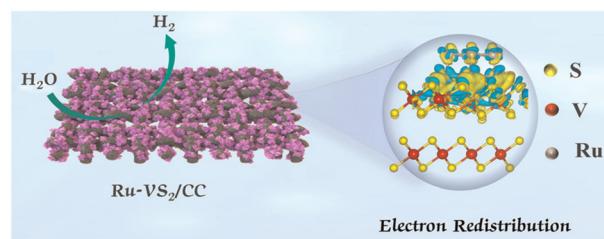


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**Modulating the electronic structure of  $\text{VS}_2$  via Ru decoration for an efficient pH-universal electrocatalytic hydrogen evolution reaction**

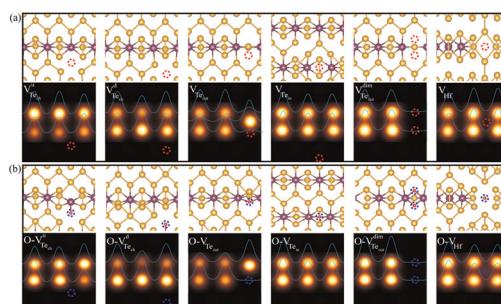
Tingxia Wang, Xu Zhang, Xiaojiao Yu,\* Yun Liu, Junpeng Li, Zongbin Liu, Ningning Zhao, Jian Zhang, Jinfen Niu and Qingliang Feng\*



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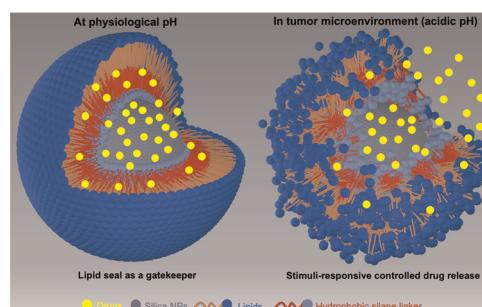
Kadir Can Dogan, Zebih Cetin and Mehmet Yagmurcukardes\*



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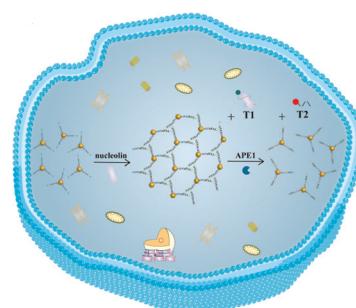
Sumiya Iqbal, Tom-Jonas Klaus Schneider, Thanh Tung Truong, Roman Ulrich-Müller, Phuong-Hien Nguyen, Shaista Ilyas\* and Sanjay Mathur\*



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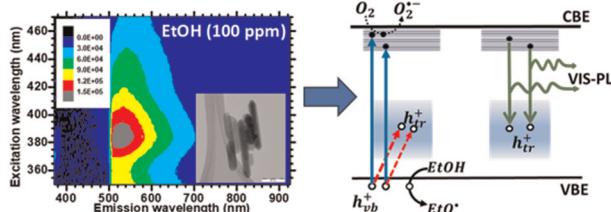
**Biomarker-triggered, spatiotemporal controlled DNA nanodevice simultaneous assembly and disassembly**

Tingting Zhao, Yi Fang, Xuyang Wang, Lei Wang, Yujuan Chu and Wenzhao Wang\*



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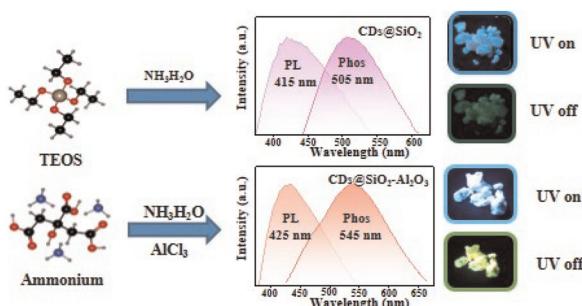
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**Charge carrier recombination processes, intragap defect states, and photoluminescence mechanisms in stoichiometric and reduced  $\text{TiO}_2$  brookite nanorods: an interpretation scheme through *in situ* photoluminescence excitation spectroscopy in controlled environment**

Romina Rega, Ambra Fioravanti, S. M. Hossein Hejazi, Mahdi Shahrezaei, Štěpán Kment, Pasqualino Maddalena, Alberto Naldoni\* and Stefano Lettieri\*

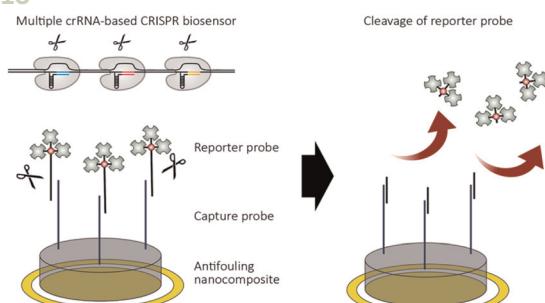
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**Metal oxide hybridization enhances room temperature phosphorescence of carbon dots– $\text{SiO}_2$  matrix for information encryption and anti-counterfeiting**

Qing Yao, Zeyu Wang,\* Nikolai V. Gaponenko, Jindou Shi, Zheyuan Da, Chen Zhang, Junnan Wang and Minqiang Wang

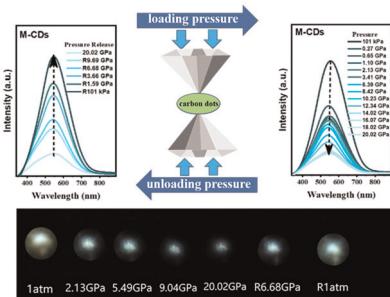
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**CRISPR/Cas12a antifouling nanocomposite electrochemical biosensors enable amplification-free detection of Monkeypox virus in complex biological fluids**

Jeong-Chan Lee, Seuk-Min Ryu, YongJin Lee, Hyowon Jang, Jayeon Song, Taejoon Kang, Kwan Hyi Lee\* and Steve Park\*

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Lele Liu, Menghui Ma, Lei Jiang, Zijian Li, Vladimir Yu. Osipov, Ting Geng, Guanjun Xiao\* and Hong Bi\*

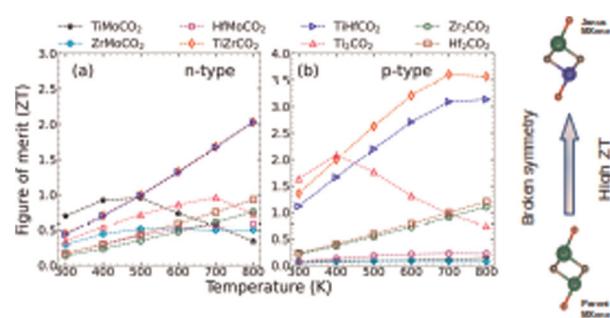


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Himanshu Murari and Subhradip Ghosh\*



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**Correction: Ultrafast switching to zero field topological spin textures in ferrimagnetic TbFeCo films**

Kaixin Zhu, Linzhu Bi, Yongzhao Zhang, Dingguo Zheng, Dong Yang, Jun Li, Huanfang Tian, Jianwang Cai, Huixin Yang, Ying Zhang\* and Jianqi Li\*

