## Journal of Materials Chemistry A

Materials for energy and sustainability

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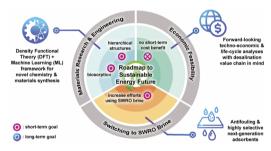
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Uranium and lithium extraction from seawater: challenges and opportunities for a sustainable energy future

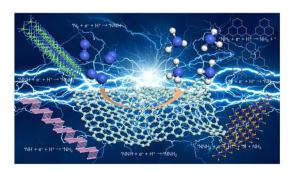
Yu Jie Lim, Kunli Goh, Atsushi Goto, Yanli Zhao and Rong Wang\*

#### Uranium and Lithium Extraction from Seawater



Emerging two-dimensional materials for the electrocatalytic nitrogen reduction reaction to yield ammonia

Yukun Ruan, Zhen-Hong He, Zhao-Tie Liu, Weitao Wang, Leiduan Hao, Liang Xu, Alex W. Robertson and Zhenyu Sun\*



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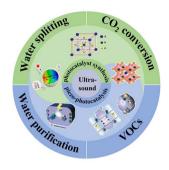


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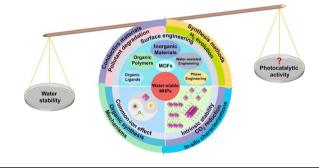
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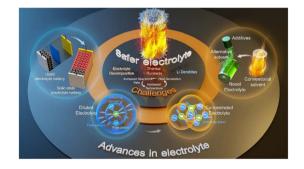
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He Zhao, Krisztian Kordas\* and Satu Ojala\*



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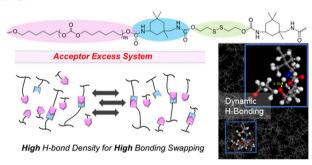


### Sustainable stretchable batteries for next-generation wearables

Aiman Rahmanudin,\* Ziyauddin Khan, Klas Tybrandt and Nara Kim\*

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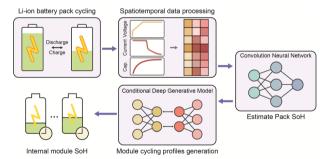
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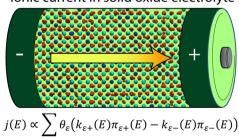


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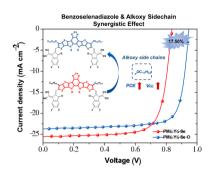
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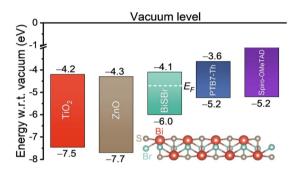
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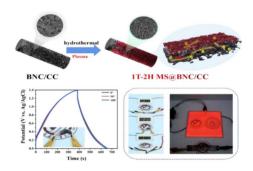
Air-stable bismuth sulfobromide (BiSBr) visible-light absorbers: optoelectronic properties and potential for energy harvesting

Xiaoyu Guo, Yi-Teng Huang, Hugh Lohan, Junzhi Ye, Yuanbao Lin, Juhwan Lim, Nicolas Gauriot, Szymon J. Zelewski, Daniel Darvill, Huimin Zhu, Akshay Rao, Iain McCulloch and Robert L. Z. Hoye'



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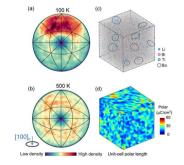
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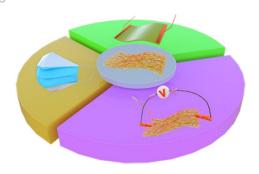
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Local structure heterogeneity in unique tetragonal BaTiO<sub>3</sub>-based relaxor featuring ultrahigh electrostrictive effect

Yonghao Yao, Lu Wang, Yuanpeng Zhang, Jue Liu, Chuanrui Huo, Hui Liu\* and Jun Chen\*



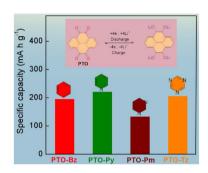
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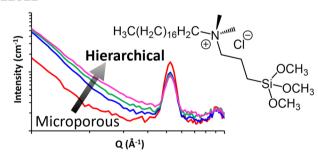
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Yuke Li, Yijiao Ding, Juncheng Wu, Yu Wang, Lei Chen,\* Yanxian Jin, Li Zhang, Shi-Bin Ren\* and De-Man Han

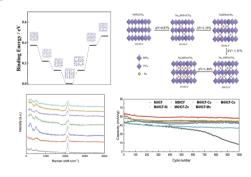
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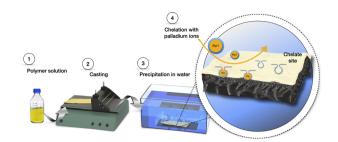
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Xu Zhao, Zhaohui Xing and Chengde Huang\*

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From waste to wealth: chelating polymeric membranes for precious palladium recovery from wastewater

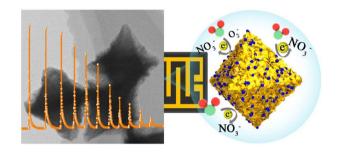
Jamaliah Aburabie, Shabin Mohammed, Anilkumar Kumaran and Raed Hashaikeh\*



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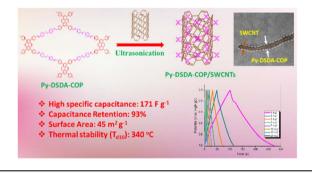
Jinhong Yang, Haoran Peng, Chong Lin, Qingjiang Pan, Lixue Qi, Li Li $^{\star}$  and Keying Shi $^{\star}$ 



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Pyrene-based covalent organic polymers with nano carbonaceous composites for efficient supercapacitive energy storage

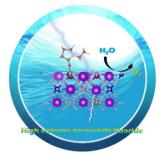
Mohsin Ejaz, Mohamed Gamal Mohamed,\* Wei-Chun Huang and Shiao-Wei Kuo\*



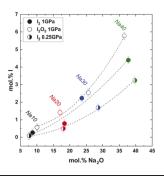
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Zeyu Hao, Zhengyan Du, Ting Deng, Dong Wang, Yi Zeng, Shansheng Yu, Zeshuo Meng,\* Xiaoying Hu,\* Xiufeng Hao\* and Hongwei Tian\*



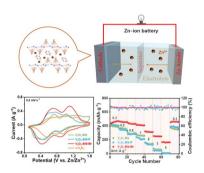
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Yann Morizet,\* Sami Soudani, Jonathan Hamon, Michael Paris, Carole La and Eric Gautron

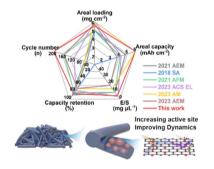
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Yuanhao Xia, Qin Cao, Yan Wang, Xinlei Wang\* and Jie Zhou\*

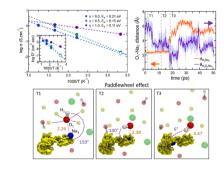
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Qiang Wu, Mingsheng Qin, Yuanke Wu, Haolin Zhu, Shijie Cheng and Jia  ${\rm Xie}^{\star}$ 

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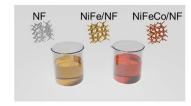
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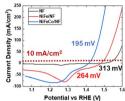
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Joshua Zheyan Soo,\* Asim Riaz,\* Felipe Kremer, Frank Brink, Chennupati Jagadish, Hark Hoe Tan and Siva Karuturi

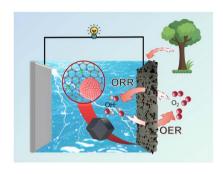




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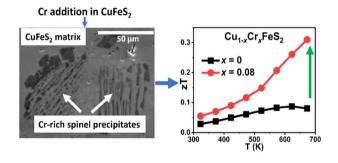
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Lulu Zhang, Yanyan Liu,\* Shuling Liu, Limin Zhou, Xianli Wu, Xianji Guo, \* Angi Zhang, Pengxiang Zhang, Baojun Li and Jianchun Jiang



#### Enhancement of thermoelectric properties of CuFeS<sub>2</sub> through formation of spinel-type microprecipitates

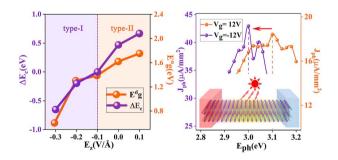
Sahil Tippireddy, Feridoon Azough, Animesh Bhui, Iuliia Mikulska, Robert Freer, Kanishka Biswas, Paz Vaqueiro and Anthony V. Powell\*



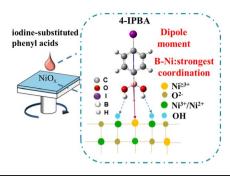
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Design and regulation of high-performance photovoltaic systems based on novel twodimensional KAgSe/KAgX (X = S, Te) van der Waals heterojunctions

Keying Han, Qiang Wang,\* Yan Liang,\* Thomas Frauenheim,\* Defeng Guo\* and Bin Wang\*



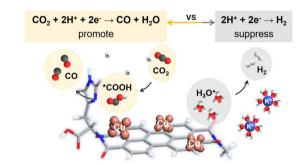
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# Unraveling the modification effect at $NiO_x$ / perovskite interfaces for efficient and stable inverted perovskite solar cells

Xinxin Kang, Dourong Wang, Kun Sun, Xue Dong,\* Wei Hui, Baohua Wang, Lei Gu, Maoxin Li, Yaqi Bao, Jie Zhang, Renjun Guo, Zerui Li, Xiongzhuo Jiang, Peter Müller-Buschbaum and Lin Song\*

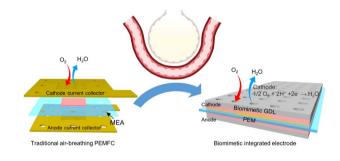
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# In situ formed copper nanoparticles via strong electronic interaction with organic skeleton for pH-universal electrocatalytic CO<sub>2</sub> reduction

Ying Zhang,\* Chenchen Zhang, Dan Wang, Jianing Gui, Junjun Mao, Yang Lou, Chengsi Pan and Yongfa Zhu

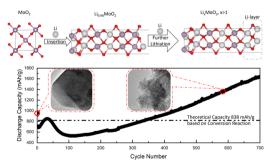
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### Biomimetic integrated gas diffusion layer inspired by alveoli for enhanced air-breathing fuel cell performance and stability

Zhi Chai, Fandi Ning, Qinglin Wen, Pei Liu, Can He, Wei Li, Xiong Dan, Pengpeng Xu, Yiyang Liu, Yali Li and Xiaochun Zhou\*

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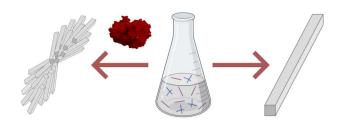
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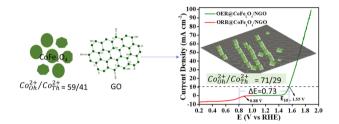
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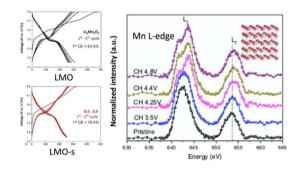
Shwetambara Jha, Priya Jain, Regina Palkovits and Pravin Popinand Ingole\*



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### Li-Mn-O Li-rich cation disordered rock-salt cathode materials do not undergo reversible oxygen redox during cycling

Wei Yin, Judith Alvarado, Elyse A. Kedzie, Bryan D. McCloskey, Chaochao Dun, Jeffrey J. Urban, Zengqing Zhuo, Wanli Yang and Marca M. Doeff\*



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#### Investigation of structure-property-application relationships of a hydrogel-based solar vapor generator

Shudi Mao, An Feng, Stella Zhang, Casey Onggowarsito, Qian Chen, Dawei Su\* and Qiang Fu\*



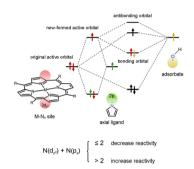
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Yazi Wang, Seunghwan Ji, Choongman Moon, Jinwoo Chu, Hee Joon Jung\* and Byungha Shin\*

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Revealing insights into the axial coordination effect of  $M-N_4$  catalysts on electrocatalytic activity towards the oxygen reduction reaction

Youxuan Ni, Weiwei Xie\* and Jun Chen\*

#### CORRECTION

#### 23087

Correction: Shape-controlled synthesis of porous  $Co_3O_4$  nanostructures for application in supercapacitors Ting Zhu, Jun Song Chen and Xiong Wen Lou\*