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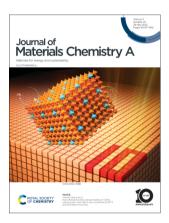
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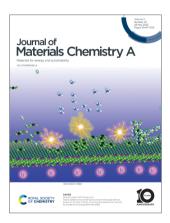
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See Zhenyu Yuan, Fanli Meng et al., pp. 10565-10576. Image reproduced by permission of Fanli Meng and Hongmin Zhu from J. Mater. Chem. A, 2023, **11**. 10565.

HIGHLIGHT

Emerging high entropy metal sulphides and phosphides for electrochemical water splitting

Ranjit Mohili, N. R. Hemanth, Haneul Jin, Kwangyeol Lee* and Nitin Chaudhari*

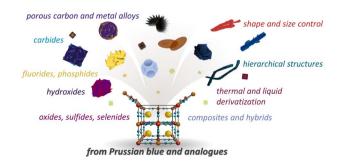


REVIEWS

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Prussian blue and its analogues as functional template materials: control of derived structure compositions and morphologies

Behnoosh Bornamehr, Volker Presser,* Aldo J. G. Zarbin,* Yusuke Yamauchi* and Samantha Husmann*



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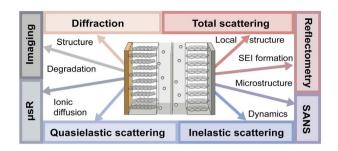


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Neutron and muon characterisation techniques for battery materials

Gabriel E. Pérez, Jake M. Brittain, Innes McClelland, Stephen Hull, Martin O. Jones, Helen Y. Playford, Serena A. Cussen, Peter J. Baker and Emily M. Reynolds*

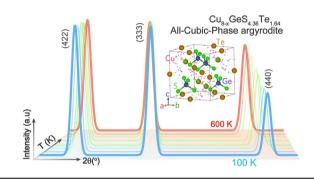


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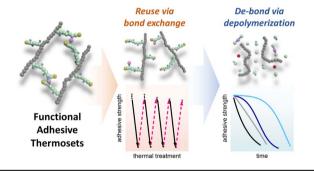
Yi-Fen Tsai, Charlotte L. Stern, Bo-Chia Chen, G. Jeffrey Snyder* and Hsin-Jay Wu*



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Grafting self-immolative poly(benzyl ether)s toward sustainable adhesive thermosets with reversible bonding and triggered de-bonding capabilities

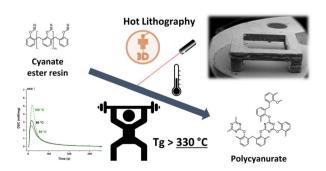
Byeongjun Choi, Ji Woo Kim, Geunyoung Choi, Songah Jeong, Eunpyo Choi and Hyungwoo Kim*



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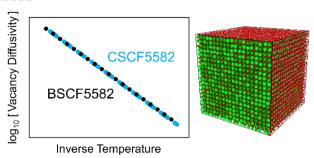
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Raffael Wolff, Patrick Knaack, Konstanze Seidler, Christian Gorsche, Thomas Koch, Jürgen Stampfl and Robert Liska*



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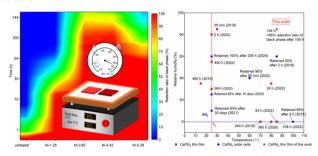


High oxygen-vacancy diffusivity predicted for perovskite oxide Ca_{0.5}Sr_{0.5}Co_{0.8}Fe_{0.2}O_{2.5}

Alexander Bonkowski, Caitlin Perkampus and Roger A. De Souza*

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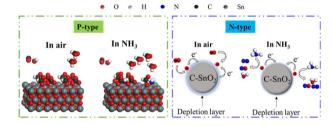
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High photoactive black phase stability of CsPbI₃ nanocrystals under damp-heat conditions of 85 °C and 85% relative humidity

Shengwen Zou, Jun Kang, Yuzheng Zhang, Mingjing Qi, Xiaojun Yan, Xiaoliang Zhang and Jianmei Huang*

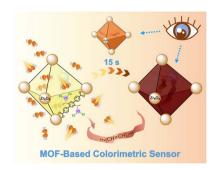
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Highly selective room temperature ammonia gas sensors based on d-band C-SnO₂ and response behavior induced by oxidative and reductive role shifts

Hongmin Zhu, Hanyang Ji, Zhenyu Yuan,* Yanbai Shen, Hongliang Gao and Fanli Meng*

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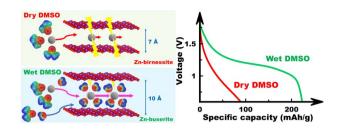
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Unveiling the role of water in enhancing the performance of zinc-ion batteries using dimethyl sulfoxide electrolyte and the manganese dioxide cathode

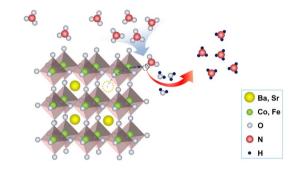
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Promoting nitrate electroreduction to ammonia over A-site deficient cobalt-based perovskite oxides

Fulong Liu, Zhenbao Zhang, Lei Shi, Yu Zhang, Xiaoyu Qiu, Yuming Dong,* Heqing Jiang, Yongfa Zhu* and Jiawei Zhu*



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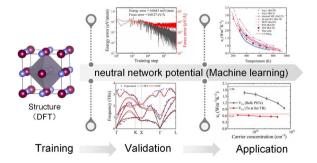
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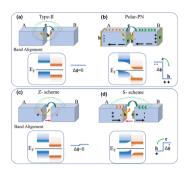
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Mi Qin, Xuemei Zhang, Jianbo Zhu, Yuming Yang, Zhuoyang Ti, Yaoling Shen, Xianlong Wang, Xiaobing Liu* and Yongsheng Zhang*



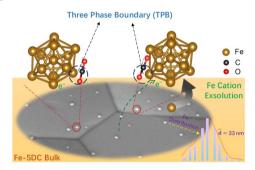
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The tunable interface charge transfer by polarization in two dimensional polar Al₂O₃/MoSO heterostructures

Xinli Wang, Juping Xu, Peng-Fei Liu, Bao-Tian Wang and Wen Yin*

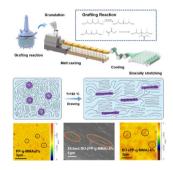
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Carbon dioxide reduction processes on a samarium doped ceria electrocatalyst with exsolved Fe particles

Lujuan Ye, Kang Zhu, Yunan Jiang,* Shaowei Zhang, Ranran Peng and Changrong Xia*

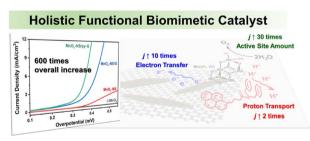
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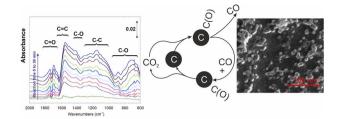
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Lizhou Fan, Yuxiang Song, Fan Zhang, Brian J. J. Timmer, Alexander Kravberg, Biaobiao Zhang* and Licheng Sun

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In situ FTIR study of 2D-carbon materials for CO2 splitting under non-thermal plasma environment selective CO production

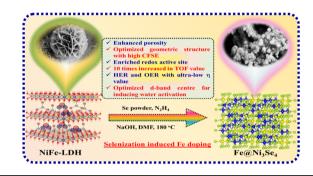
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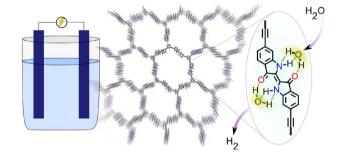
Arun Karmakar, Abhirami V. Krishnan, Rahul Jayan, Ragunath Madhu, Md Mahbubul Islam* and Subrata Kundu*



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Hydrogen bond-mediated pH-universal electrocatalytic hydrogen production by conjugated porous poly-indigo

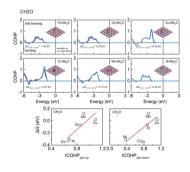
Ipsita Nath, Jeet Chakraborty,* Reinaud Lips, Sander Dekyvere, Jiang Min, Rajender S. Varma and Francis Verpoort*



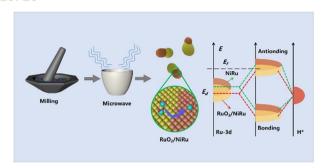
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Decreased spin-resolved anti-bonding states filling to accelerate CHO conversion into CH₂O in transitional metal-doped Mo₂C monolayers during CO₂ reduction

Liu Guo, Rui Li, Jiawei Jiang, Xueping Fan, Ji-Jun Zou and Wenbo Mi*



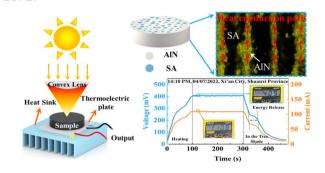
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The RuO₂/NiRu heterogeneous interface optimizes the d-band center of the Ni-Ru catalyst for highperformance alkaline hydrogen evolution reaction

Yitian Zhou, Yifan Liu, Hehua Tang and Bo-Lin Lin*

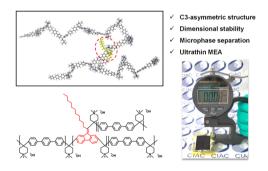
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AlN micro-honeycomb reinforced stearic acid-based phase-change composites with high thermal conductivity for solar-thermal-electric conversion

Jiabin Hu, Zhilei Wei, Bangzhi Ge, Lei Zhao, Kang Peng and Zhongqi Shi*

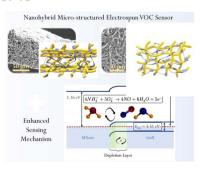
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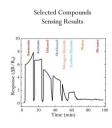


High-strength, ultra-thin anion exchange membranes with a branched structure toward alkaline membrane fuel cells

Xiaofeng Li, Bin Zhang, Jing Guo, Yaohan Chen, Lei Dai, Jifu Zheng,* Shenghai Li* and Suobo Zhang

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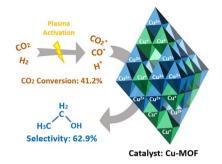
An ultra-sensitive and stable electrochemical sensor with an expanded working range via in situ assembly of 3-D structures based on MXene/GnR nanohybrids

Sara Mohseni Taromsari, HaoTian Harvey Shi, Saeed Habibpour, Sophie Kiddell, Aiping Yu, Chul B. Park* and Hani E. Naguib*

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Direct hydrogenation of CO₂ to ethanol at ambient conditions using Cu(ı)-MOF in a dielectric barrier discharge plasma reactor

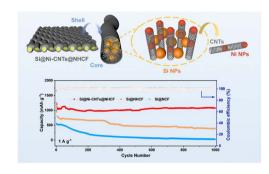
Nan Zou, Jie Chen, Ting Qiu* and Ying Zheng*



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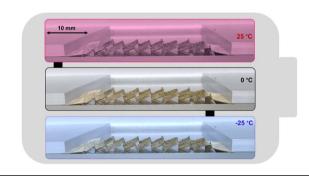
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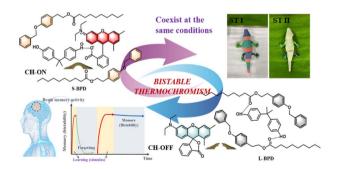
Ahmad Amiri, Kian Bashandeh, Ronald Sellers, Louis Vaught, Mohammad Naraghi and Andreas A. Polycarpou*



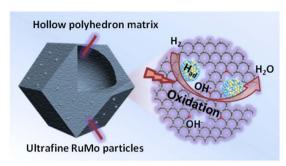
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Solar-driven bistable thermochromic textiles based on supercooling and space constraint anchoring electron transfer

Chengcheng Wang, Jingwen Wang, Liping Zhang* and Shaohai Fu



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Min Ma, Chaofan Chen, Xibo Zhang, Hongsheng Zhao, Qiuxiang Wang, Guifen Du, Zhaoxiong Xie and Qin Kuang*

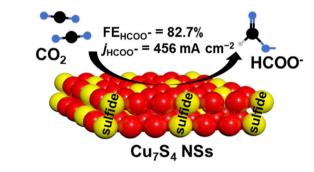
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Controllable redox reaction cycle enabled by multifunctional Ru-containing polyoxometalate-based catalysts

Huafeng Li, Zelong Yuan, Wenjing Chen, Mengnan Yang, Yahao Sun, Shihao Zhang, Pengtao Ma, Jingping Wang* and Jingyang Niu*

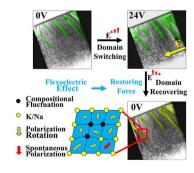
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Cu_7S_4 nanosheets enriched with Cu-S bond for highly active and selective CO_2 electroreduction to formate

Yan Wen, Nan Fang, Wenqiang Liu, Tang Yang, Yong Xu* and Xiaoqing Huang*

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In situ TEM analysis of reversible non-180° domain switching in (K,Na)NbO₃ single crystals

Qinwen Guo, Chengpeng Hu, Xiangfei Li, Ying Meng, Luyao Wang, Haoyu Zhuang, Xi Shen,* Yuan Yao, Hao Tian, Zhongxiang Zhou* and Richeng Yu*

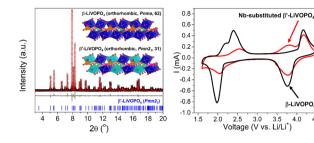
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Complex defect chemistry of hydrothermallysynthesized Nb-substituted β'-LiVOPO₄

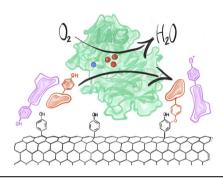
Krystal Lee, Hui Zhou, Mateusz Zuba, Carol Kaplan, Yanxu Zong, Linna Qiao, Guangwen Zhou, Natasha A. Chernova, Hao Liu* and M. Stanley Whittingham*



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Laccase-catalyzed functionalization of phenolmodified carbon nanotubes: from grafting of metallopolyphenols to enzyme self-immobilization

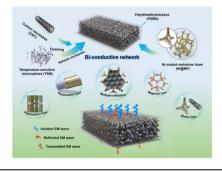
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Absorption-dominated electromagnetic interference shielding composite foam based on porous and biconductive network structures

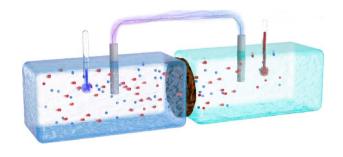
Qiang Peng, Meng Ma,* Qindan Chu, Hao Lin, Wenting Tao, Wenqin Shao, Si Chen, Yanqin Shi, Huiwen He and Xu Wang*



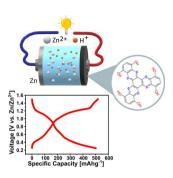
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Heat and osmosis cooperatively driven power generation in robust two-dimensional hybrid nanofluidic channels

Tianliang Xiao, Xuejiang Li, Zhaoyue Liu,* Bingxin Lu, Jin Zhai* and Xungang Diao*



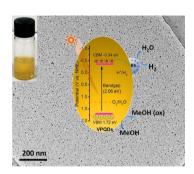
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Triquinoxalinediol as organic cathode material for rechargeable aqueous zinc-ion batteries

Svit Menart, Klemen Pirnat,* David Pahovnik and Robert Dominko

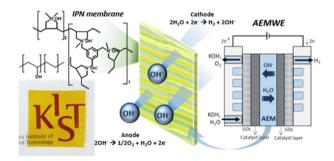
10883



Violet phosphorus quantum dots as an emerging visible light-responsive photocatalyst for an efficient hydrogen evolution reaction

Xin Wang,* Chang Xu, Ziyou Wang, Yan Wang, Xuewen Zhao, Jinying Zhang, Ming Ma, Quansheng Guo and Fuxiang Zhang*

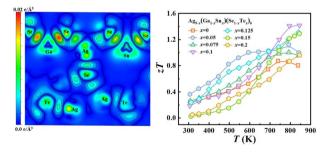
10891



Polydiallylammonium interpenetrating cationic network ion-solvating membranes for anion exchange membrane water electrolyzers

Jiyoon Jung, Young Sang Park, Dong Jun Hwang, Gwan Hyun Choi, Dong Hoon Choi, Hyun Jin Park,* Cheol-Hee Ahn, Seung Sang Hwang and Albert S. Lee*

10901



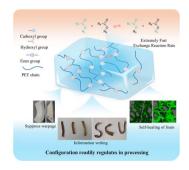
Co-alloying of Sn and Te enables high thermoelectric performance in Ag_9GaSe_6

Min Li, Hexige Wuliji, Zhengyang Zhou, Pengfei Qiu, Kunpeng Zhao* and Xun Shi*

10912

Sustainable polyester vitrimer capable of fast selfhealing and multiple shape-programming via efficient synthesis and configuration processing

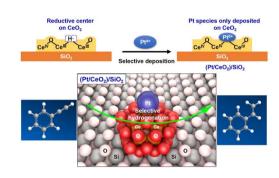
Pengzhi Li, Xutao Zhang, Qi Yang,* Pengjian Gong,* Chul B. Park and Guangxian Li



10927

Bottom-up synthesis of a pyramid-type (Pt/ 4nmCeO₂)/SiO₂ catalyst via a surface reduction strategy

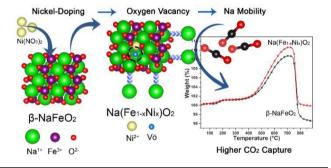
Jianyu Han, Zhixin Zhang, Zhuoran Xu, Lunhua He, Feiran Shen, Yehong Wang, Xuebin Liu, Meiling Guo, Zaihong Guan and Feng Wang*



10938

Unveiling the different physicochemical properties of M-doped β -NaFeO₂ (where M = Ni or Cu) materials evaluated as CO₂ sorbents: a combined experimental and theoretical analysis

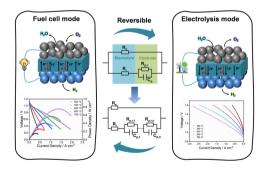
Nayeli Gómez-Garduño, Daniel G. Araiza,* Christian A. Celaya,* Jesús Muñiz and Heriberto Pfeiffer



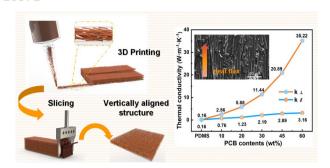
10955

A double perovskite oxygen electrode in Zr-rich proton conducting ceramic cells for efficient electricity generation and hydrogen production

Haoyu Zheng,* Matthias Riegraf, Noriko Sata and Rémi Costa*



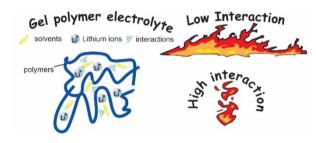
10971



Ultrahigh thermal conductive polymer composites by the 3D printing induced vertical alignment of carbon fiber

Zhenbang Zhang, Maohua Li, Yandong Wang, Wen Dai, Linhong Li, Yapeng Chen, Xiangdong Kong, Kang Xu, Rongjie Yang, Ping Gong, Jianxiang Zhang, Tao Cai, Cheng-Te Lin, Kazuhito Nishimura, Hao Nan Li,* Nan Jiang* and Jinhong Yu*

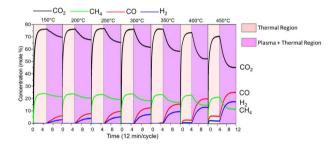
10984



Relationship between the intermolecular interactions of carbonyl (PC) with nitrile (HNBR) functional groups and the flash point of a gel polymer electrolyte

Caroline St-Antoine, David Lepage, Gabrielle Foran, Arnaud Prébé, David Aymé-Perrot, Dominic Rochefort and Mickaël Dollé*

10993



Non-equilibrium plasma-assisted dry reforming of methane over shape-controlled CeO₂ supported ruthenium catalysts

Md Robayet Ahasan, Md Monir Hossain, Xiang Ding and Ruigang Wang*

CORRECTION

11010

Correction: Promoting nitrate electroreduction to ammonia over A-site deficient cobalt-based perovskite oxides

Fulong Liu, Zhenbao Zhang, Lei Shi, Yu Zhang, Xiaoyu Qiu, Yuming Dong,* Heqing Jiang, Yongfa Zhu* and Jiawei Zhu*