

Journal of Materials Chemistry A

Materials for energy and sustainability

rsc.li/materials-a

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

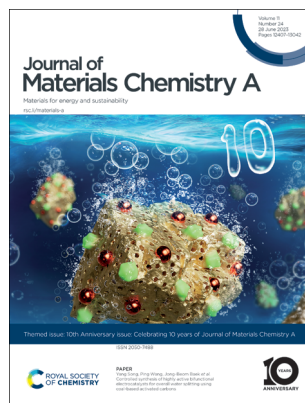
IN THIS ISSUE

ISSN 2050-7488 CODEN JMCAET 11(24) 12407–13042 (2023)



Cover

See Miriam M. Unterlass *et al.*, pp. 12703–12712. Image reproduced by permission of Miriam M. Unterlass from *J. Mater. Chem. A*, 2023, **11**, 12703.



Inside cover

See Yang Song, Ping Wang, Jong-Beom Baek *et al.*, pp. 12726–12734. Image reproduced by permission of Xianglong Zhao from *J. Mater. Chem. A*, 2023, **11**, 12726.

EDITORIAL

12423

Introducing the tenth anniversary issues of *Journal of Materials Chemistry A, B and C*

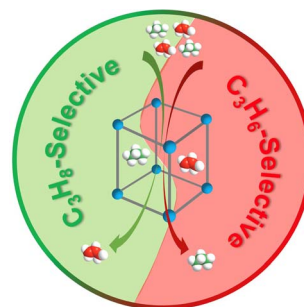


HIGHLIGHT

12425

Microporous metal–organic frameworks for the purification of propylene

Feng Xie, Hao Wang* and Jing Li*



Editorial Staff

Executive Editor

Michaela Muehlberg

Deputy Editor

Geraldine Hay

Editorial Production Manager

Jonathon Watson

Senior Publishing Editor

Isobel Tibbetts

Development Editor

Rose Wedgbury

Publishing Editors

Matthew Blow, Chris Dias, Hemna Fathima, Juan Gonzalez, Ellie Griffiths, Rob Hinde, Sam Howell, Ash Hyde, Francesca Jacklin, Evie Karkera, Shruti Karnik, Sophie Koh, Tamara Kosikova, Brian Li, Sam Mansell, Carole Martin, Kirsty McRoberts, Yasmin Mehanna, Tiffany Rogers, Cat Schofield, Charu Storr-Vijay, Manman Wang, Ella White, Tom Williams

Editorial Assistant

Daniel Smith

Publishing Assistant

Julie-Ann Roszkowski

Publisher

Sam Keltie

For queries about submitted papers, please contact Jonathon Watson, Editorial Production Manager in the first instance. E-mail: materialsA@rsc.org

For pre-submission queries please contact Michaela Muehlberg, Executive Editor. E-mail: materialsA-rsc@rsc.org

Journal of Materials Chemistry A (electronic: ISSN 2050-7496) is published 48 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WE.

All orders, with cheques made payable to the Royal Society of Chemistry, should be sent to the Royal Society of Chemistry Order Department, Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, CB4 0WE, UK
Tel +44 (0)1223 432398; E-mail orders@rsc.org
2023 Annual (electronic) subscription price: £1968, \$4085. Customers in Canada will be subject to a surcharge to cover GST. Customers in the EU subscribing to the electronic version only will be charged VAT.

If you take an institutional subscription to any Royal Society of Chemistry journal you are entitled to free, site-wide web access to that journal. You can arrange access via Internet Protocol (IP) address at www.rsc.org/ip

Customers should make payments by cheque in sterling payable on a UK clearing bank or in US dollars payable on a US clearing bank.

Whilst this material has been produced with all due care, the Royal Society of Chemistry cannot be held responsible or liable for its accuracy and completeness, nor for any consequences arising from any errors or the use of the information contained in this publication. The publication of advertisements does not constitute any endorsement by the Royal Society of Chemistry or Authors of any products advertised. The views and opinions advanced by contributors do not necessarily reflect those of the Royal Society of Chemistry which shall not be liable for any resulting loss or damage arising as a result of reliance upon this material. The Royal Society of Chemistry is a charity, registered in England and Wales, Number 207890, and a company incorporated in England by Royal Charter (Registered No. RC000524), registered office: Burlington House, Piccadilly, London W1J 0BA, UK, Telephone: +44 (0) 207 4378 6556.

Advertisement sales:

Tel +44 (0) 1223 432246; Fax +44 (0) 1223 426017; E-mail advertising@rsc.org

For marketing opportunities relating to this journal, contact marketing@rsc.org

Journal of Materials Chemistry A

rsc.li/materials-a

Journal of Materials Chemistry A, B & C cover high quality studies across all fields of materials chemistry. The journals focus on those theoretical or experimental studies that report new understanding, applications, properties and synthesis of materials. *Journal of Materials Chemistry A* covers materials with applications in energy & sustainability.

Editorial Board

Editor-in-Chief

Anders Hagfeldt, EPFL, Switzerland

Scientific Editors

Frank Osterloh, University of California, Davis, USA

Associate Editors

Veronica Augustyn, North Carolina State University, USA
Viola Birss, University of Calgary, Canada
Goutam De, S N Bose National Centre for Basic Sciences, India
Ghim Wei Ho, National University of Singapore, Singapore
Yun Jeong Hwang, Seoul National University, South Korea
Kisuk Kang, Seoul National University, South Korea

Subrata Kundu, Central Electrochemical Research Institute (CECRI), India
Dan Li, Jinan University, China
David Lou, Nanyang Technological University, Singapore
Yi-Chun Lu, Chinese University of Hong Kong, Hong Kong
Shizhang Qiao, University of Adelaide, Australia
Jennifer Rupp, Technical University Munich, Germany

Miriam Unterlass, University of Konstanz, Germany
Lydia Wong, Nanyang Technological University, Singapore
Li-Zhu Wu, Technical Institute of Physics and Chemistry, China
Yusuke Yamauchi, University of Queensland, Australia
Zhen Zhou, Nankai University, China

Advisory Board

P. Adelhelm, Humboldt-University Berlin, Germany
R. Ahuja, Uppsala University, Sweden
C. Ania, CNRS Orleans, France
J.-B. Baek, Ulsan National Institute of Science and Technology, Korea
C. Berlinguette, University of British Columbia, Canada
K. Biswas, Jawaharlal Nehru Centre for Advanced Scientific Research, India
E. Bucher, University of Leoben, Austria
M. Chabinye, University of California, Santa Barbara, USA
A. Chattopadhyay, IIT Guwahati, India
J.-S. Chen, Shanghai Jiao Tong University, China
W. Chueh, Stanford University, USA
S. Cussen, University of Sheffield, UK
X. Duan, University of Adelaide, Australia
M. Eddaoudi, King Abdullah University of Science and Technology, Saudi Arabia
T. Edvinsson, Uppsala University, Sweden
X. Feng, Dresden University of Technology, Germany
J. Fleig, Dresden University of Technology, Germany
M. Florea, University of Bucharest, Romania
G. Galli, University of Chicago, USA
N. Garcia-Araez, University of Southampton,

UK
G. Grancini, University of Pavia, Italy
J. Huang, Northwestern University, USA
H. Imahori, Kyoto University, Japan
T. Ishihara, Kyushu University, Japan
S. Islam, University of Bath, UK
F. Jiao, University of Delaware, USA
E. Kendrick, University of Birmingham, UK
B. Kim, KAIST, Korea
D.-H. Kim, Ewha Womans University, Korea
U. Kramm, TU Darmstadt, Germany
Y.J. Lee, Hanyang University, Korea
B. Li, Tsinghua University, China
J. Li, Rutgers University, USA
Z. Lin, National University of Singapore, Singapore
B. Lotsch, Max Planck Institute for Solid State Research, Stuttgart, Germany
J. Luo, Nankai University, China
C.-B. Mullins, University of Texas at Austin, USA
A. K. Nandi, IACS, India
L. Nazar, University of Waterloo, Canada
M. Niederberger, ETH Zürich, Switzerland
A.F. Nogueira, University of Campinas, Brazil
C. Osuji, University of Pennsylvania, USA
S. Parker, University of Bath, UK
S. Patil, Indian Institute of Science, Bangalore, India

Z. Schnopp, University of Birmingham, UK
Z. Shao, Curtin University, Australia
Y. Shimakawa, Kyoto University, Japan
S. Skinner, Imperial College London, UK
M.C. Stefan, University of Texas at Dallas, USA
C.-Y. Su, Sun Yat-Sen University, China
S.-G. Sun, Xiamen University, China
V. Thangadurai, University of Calgary, Canada
M. Titirici, Imperial College London, UK
S. Uk Son, Sungkyunkwan University, Korea
E. Unger, Lund University, Sweden
R.-N. Vannier, ENSC Lille, France
M. Wang, Sun Yat-Sen University, China
M. Wei, Beijing University of Chemical Technology, China
E. Weiss, Northwestern University, USA
C. Williams, University of Oxford, UK
C. Xiong, Boise State University, USA
Y. Xu, University College London, UK
Y.-J. Xu, Fuzhou University, China
M. Ye, Xiamen University, China
Q. Zhang, Tsinghua University, China
X.S. Zhao, University of Queensland, Australia
G. Zheng, Fudan University, China

Information for Authors

Full details on how to submit material for publication in Journal of Materials Chemistry A are given in the Instructions for Authors (available from <http://www.rsc.org/authors>). Submissions should be made via the journal's homepage: rsc.li/materials-a. Submissions: The journal welcomes submissions of manuscripts for publication as Full Papers, Communications, Reviews, Highlights and Applications. Full Papers and Communications should describe original work of high quality and impact which must highlight the novel properties or applications (or potential properties/applications) of the materials studied.

Additional details are available from the Editorial Office or <http://www.rsc.org/authors>

Authors may reproduce/republish portions of their published contribution without seeking permission from the Royal Society of

Chemistry, provided that any such republication is accompanied by an acknowledgement in the form: (Original Citation)–Reproduced by permission of the Royal Society of Chemistry.

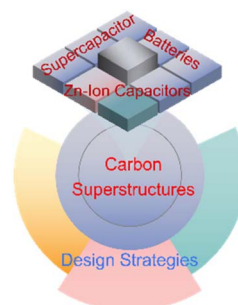
This journal is © The Royal Society of Chemistry 2023. Apart from fair dealing for the purposes of research or private study for non-commercial purposes, or criticism or review, as permitted under the Copyright, Designs and Patents Act 1988 and the Copyright and Related Rights Regulation 2003, this publication may only be reproduced, stored or transmitted, in any form or by any means, with the prior permission in writing of the Publishers or in the case of reprographic reproduction in accordance with the terms of licences issued by the Copyright Licensing Agency in the UK. US copyright law is applicable to users in the USA.

Registered charity number: 207890



REVIEWS

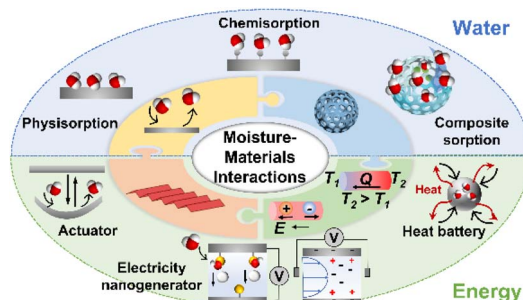
12434

Versatile carbon superstructures for energy storageZiyang Song, Ling Miao, Yaokang Lv, Lihua Gan*
and Mingxian Liu*

12456

Advances in harvesting water and energy from ubiquitous atmospheric moisture

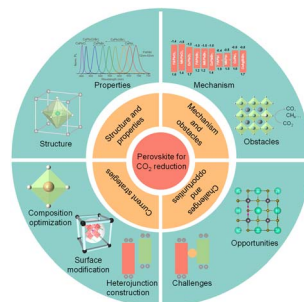
Wanheng Lu, Wei Li Ong and Ghim Wei Ho*



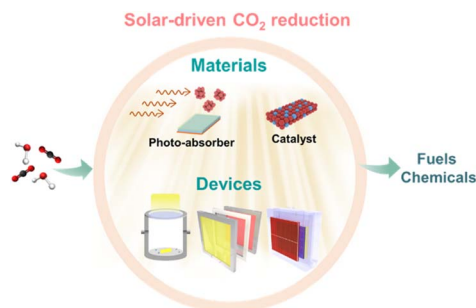
12482

Halide perovskite quantum dots for photocatalytic CO₂ reduction

Wentao Song, Guobin Qi and Bin Liu*

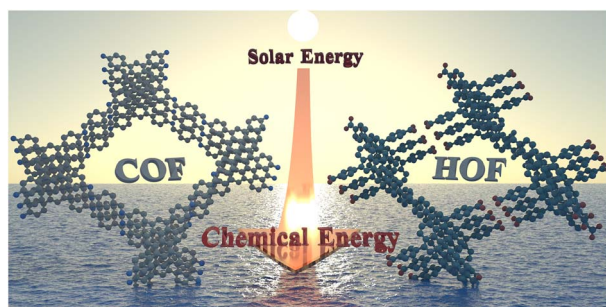


12499

Solar driven CO₂ reduction: from materials to devicesLili Wan, Rong Chen, Daniel Wun Fung Cheung,
Linxiao Wu and Jingshan Luo*

REVIEWS

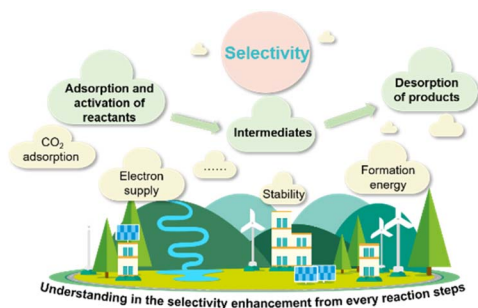
12521



Covalent organic framework and hydrogen-bonded organic framework for solar-driven photocatalysis

Wei-Kang Qin, Chen-Ho Tung and Li-Zhu Wu*

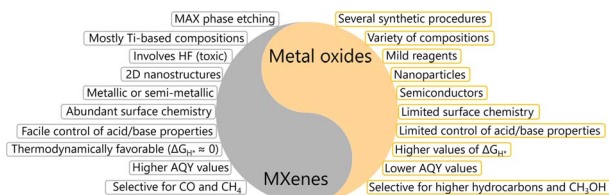
12539



Highly selective semiconductor photocatalysis for CO₂ reduction

Shan Yao, Jiaqing He, Feng Gao, Haowei Wang, Jiahui Lin, Yang Bai, Jingyun Fang, Feng Zhu, Feng Huang and Mengye Wang*

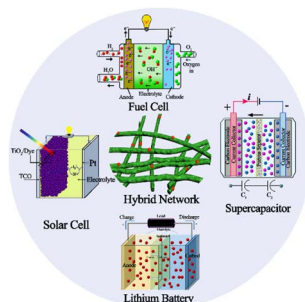
12559



A comparative overview of MXenes and metal oxides as cocatalysts in clean energy production through photocatalysis

Mahesh M. Nair, Alexandra C. Iacoban, Florentina Neațu, Mihaela Florea* and Ștefan Neațu*

12593



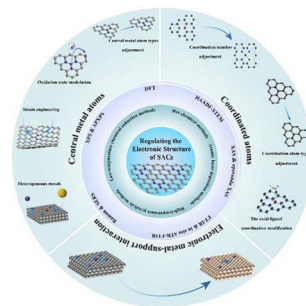
Hybrid polymer gels for energy applications

Arun K. Nandi* and Dhruba P. Chatterjee

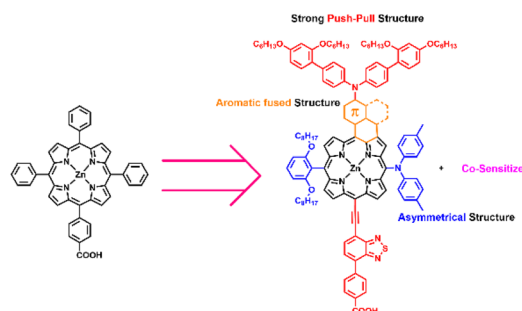


REVIEWS

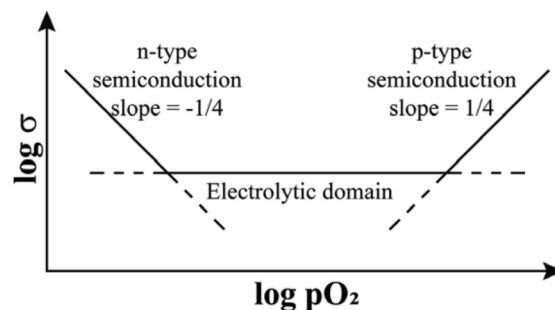
12643

Regulating the electronic structure of single-atom catalysts for electrochemical energy conversionWei Ma,^{*} Zhe Deng, Xinjie Zhang, Zhang Zhang and Zhen Zhou^{*}

12659

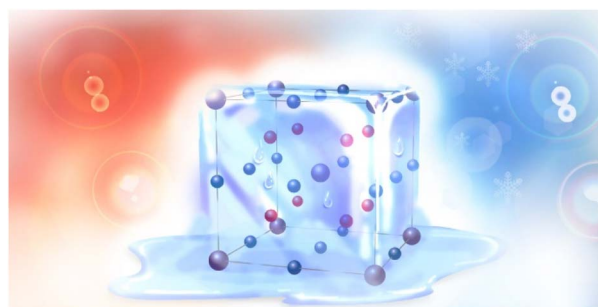
Molecular designs, synthetic strategies, and properties for porphyrins as sensitizers in dye-sensitized solar cellsYuzhe Zhang, Tomohiro Higashino^{*} and Hiroshi Imahori^{*}

12681

Redox-active oxygen in oxides: emergent applications, including field-induced resistive switching, flash luminescence, p–n junctions and high capacity battery cathodesAnthony R. West^{*}

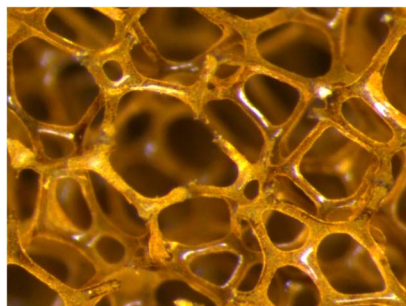
PERSPECTIVE

12695

Giant caloric effects in charge–spin–lattice coupled transition-metal oxidesYuichi Shimakawa^{*} and Yoshihisa Kosugi

COMMUNICATIONS

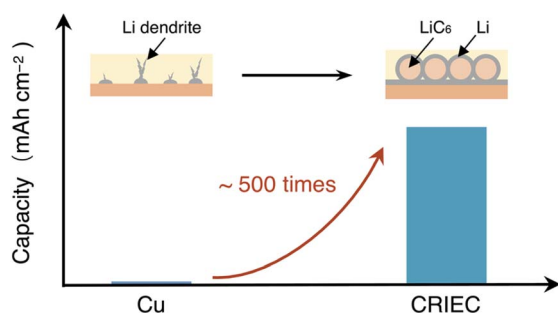
12703



Urethane functions can reduce metal salts under hydrothermal conditions: synthesis of noble metal nanoparticles on flexible sponges applied in semi-automated organic reduction

Olivier Gazil, Johannes Bernardi, Arthur Lassus, Nick Virgilio and Miriam M. Unterlass*

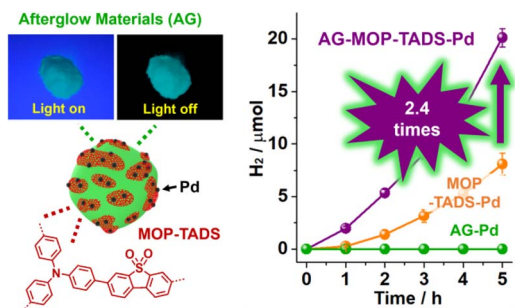
12713



High-areal-capacity anode-free all-solid-state lithium batteries enabled by interconnected carbon-reinforced ionic-electronic composites

Wen-Ze Huang, Ze-Yu Liu, Pan Xu, Wei-Jin Kong, Xue-Yan Huang, Peng Shi, Peng Wu, Chen-Zi Zhao,* Hong Yuan, Jia-Qi Huang and Qiang Zhang*

12719

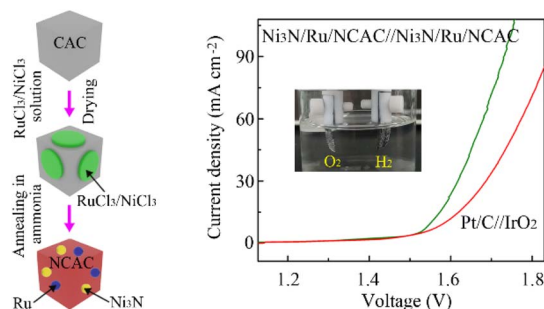


Enhanced photocatalytic hydrogen production of microporous organic polymers by incorporation of afterglow phosphorescent materials

Sang Hyun Ryu, Gye Hong Kim, Tae Kyu Ahn,* Kyoung Chul Ko* and Seung Uk Son*

PAPERS

12726



Controlled synthesis of highly active bifunctional electrocatalysts for overall water splitting using coal-based activated carbons

Xianglong Zhao, Xinghua Yong, Qizhe Ji, Zhenghua Yang, Yang Song,* Yiqiang Sun, Zhengyang Cai, Jingcheng Xu, Luyan Li, Shuhua Shi, Feiyong Chen, Cuncheng Li, Ping Wang* and Jong-Beom Baek*

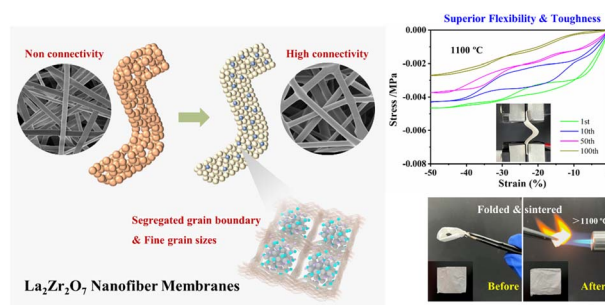


PAPERS

12735

An *in situ* hyperconnective network strategy to prepare lanthanum zirconate nanofiber membranes with superior flexibility and toughness

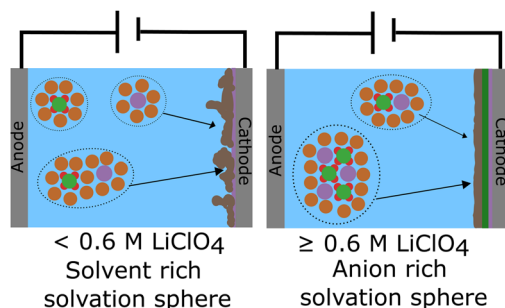
Nana Xu, Xiaoshan Zhang, Haiyan Liu, Hui Xu, Shuang Wu, Bing Wang* and Yingde Wang*



12746

The role of ion solvation in lithium mediated nitrogen reduction

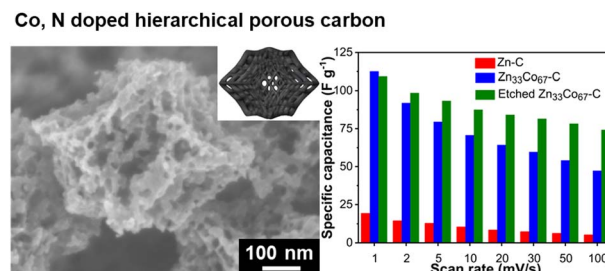
O. Westhead, M. Spry, A. Bagger, Z. Shen, H. Yadegari, S. Favero, R. Tort, M. Titirici, M. P. Ryan, R. Jervis, Y. Katayama, A. Aguadero, A. Regoutz, A. Grimaud* and I. E. L. Stephens*



12759

Enlarging the porosity of metal–organic framework-derived carbons for supercapacitor applications by a template-free ethylene glycol etching method

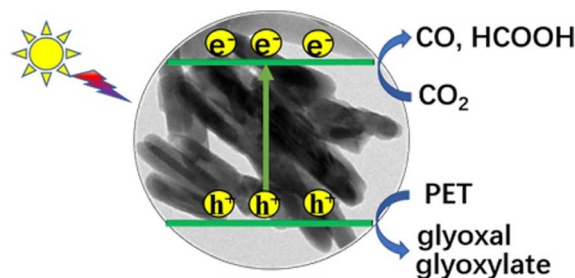
Ruijing Xin, Minjun Kim,* Ping Cheng, Aditya Ashok, Silvia Chowdhury, Teahoon Park, Azhar Alowasheer, Md. Shahriar Hossain, Jing Tang, Jin Woo Yi,* Yusuke Yamauchi, Yusuf Valentino Kaneti* and Jongbeom Na*



12770

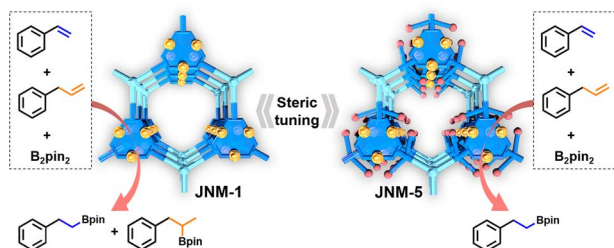
Modulating oxygen vacancy concentration on $\text{Bi}_4\text{V}_2\text{O}_{11}$ nanorods for synergistic photo-driven plastic waste oxidation and CO_2 reduction

Mengping Liu, Yu Xia, Wen Zhao, Ruiyi Jiang, Xin Fu, Brittney Zimmerle, Lihong Tian* and Xiaobo Chen*



PAPERS

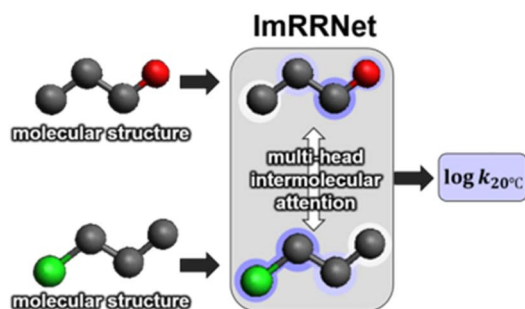
12777



Tailoring stability, catalytic activity and selectivity of covalent metal–organic frameworks *via* steric modification of metal nodes

Haiyan Duan, Xu Chen, Yi-Nan Yang, Jianping Zhao, Xiao-Chun Lin, Wen-Jing Tang, Qiang Gao, Guo-Hong Ning* and Dan Li*

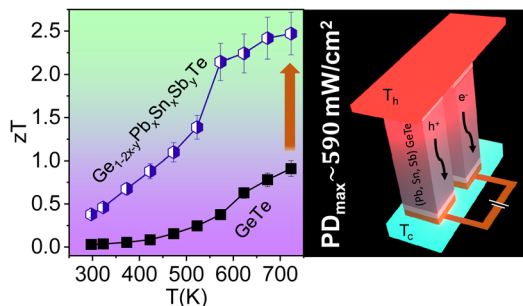
12784



An artificial neural network using multi-head intermolecular attention for predicting chemical reactivity of organic materials

Jaekyun Yoo, Byunghoon Kim, Byungju Lee, Jun-hyuk Song and Kisuk Kang*

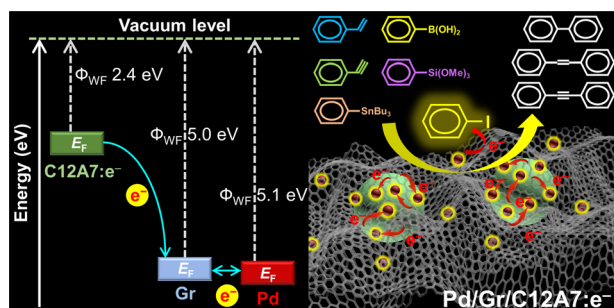
12793



High thermoelectric performance in entropy-driven $\text{Ge}_{1-2x-y}\text{Pb}_x\text{Sn}_x\text{Sb}_y\text{Te}$

Animesh Das, Paribesh Acharyya, Subarna Das and Kanishka Biswas*

12802



Encapsulated C12A7 electrified material enables a multistep electron transfer process for cross-coupling reactions

Bo Dai, Zichuang Li, Miao Xu, Jiang Li, Yangfan Lu, Jiantao Zai, Liuyin Fan, Sang-Won Park, Masato Sasase, Masaaki Kitano,* Hideo Hosono,* Xin-Hao Li, Tian-Nan Ye* and Jie-Sheng Chen*

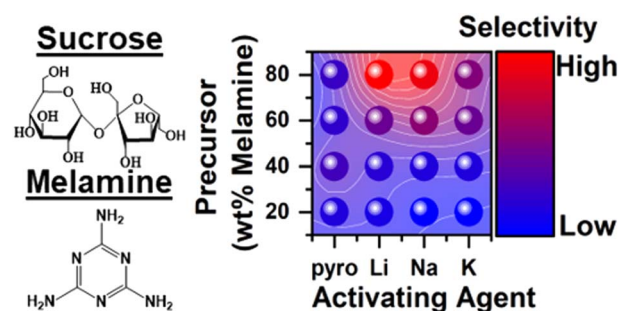


PAPERS

12811

Modulation of CO₂ adsorption thermodynamics and selectivity in alkali-carbonate activated N-rich porous carbons

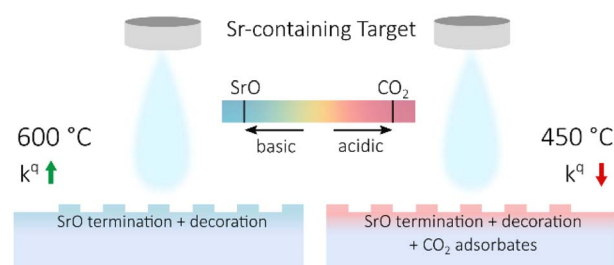
J. Ehren Eichler, James N. Burrow, Naman Katyal, Graeme Henkelman and C. Buddie Mullins*



12827

Improving and degrading the oxygen exchange kinetics of La_{0.6}Sr_{0.4}CoO_{3-δ} by Sr decoration

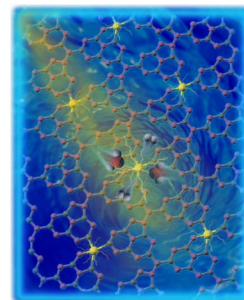
Matthäus Siebenhofer,* Christoph Riedl, Andreas Nenning, Werner Artnr, Christoph Rameshan, Alexander Karl Opitz, Jürgen Fleig and Markus Kubicek



12837

S-doped C₃N₅ derived from thiadiazole for efficient photocatalytic hydrogen evolution

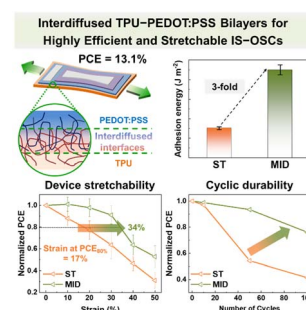
Xinwei Guan, Mohammed Fawaz, Ranjini Sarkar, Chun-Ho Lin, Zhixuan Li, Zhihao Lei, Panangattu Dharmarajan Nithinraj, Prashant Kumar, Xiangwei Zhang, Jae-Hun Yang, Long Hu, Tom Wu, Sudip Chakraborty, Jiabao Yi* and Ajayan Vinu*



12846

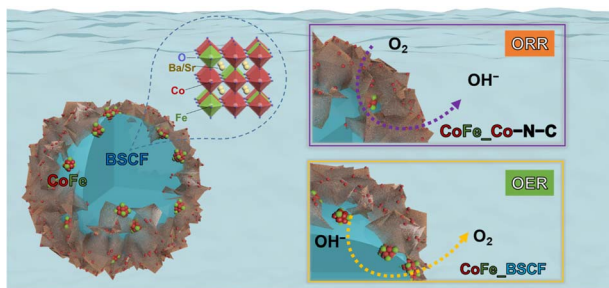
Interdiffused thermoplastic urethane-PEDOT:PSS bilayers with superior adhesion properties for high-performance and intrinsically-stretchable organic solar cells

Jinho Lee, Jin-Woo Lee, Hyunggwi Song, Myoung Song, Jinseok Park, Geon-U Kim, Dahyun Jeong, Taek-Soo Kim and Bumjoon J. Kim*



PAPERS

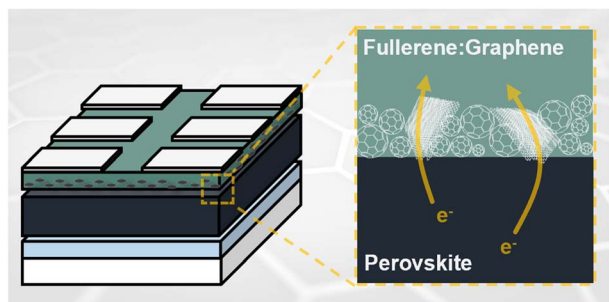
12856



Organic ligand-facilitated *in situ* exsolution of CoFe alloys over $\text{Ba}_{0.5}\text{Sr}_{0.5}\text{Co}_{0.8}\text{Fe}_{0.2}\text{O}_{3-\delta}$ perovskite toward enhanced oxygen electrocatalysis for rechargeable Zn-air batteries

Yasir Arafat, Muhammad Rizwan Azhar, Yijun Zhong, Ryan O'Hayre, Moses O. Tadé and Zongping Shao*

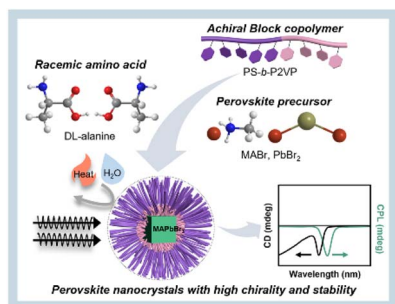
12866



Enhancing charge extraction in inverted perovskite solar cells contacts via ultrathin graphene:fullerene composite interlayers

Andrea Zanetta, Isabella Bulfaro, Fabiola Faini, Matteo Manzi, Giovanni Pica, Michele De Bastiani, Sebastiano Bellani, Marilena Isabella Zappia, Gabriele Bianca, Luca Gabatell, Jaya-Kumar Panda, Antonio Esaú Del Río Castillo, Mirko Prato, Simone Lauciello, Francesco Bonaccorso and Giulia Grancini*

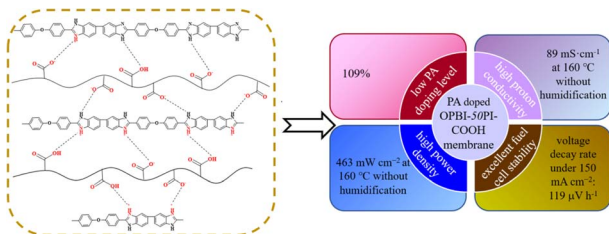
12876



Simultaneously achieving room-temperature circularly polarized luminescence and high stability in chiral perovskite nanocrystals via block copolymer micellar nanoreactors

Minju Kim, Jiweon Kim, Jieun Bang, Yu Jin Jang, JaeHong Park and Dong Ha Kim*

12885



Composite membranes consisting of acidic carboxyl-containing polyimide and basic polybenzimidazole for high-temperature proton exchange membrane fuel cells

Erli Qu, Geng Cheng, Min Xiao, Dongmei Han, Sheng Huang, Zhiheng Huang, Wei Liu, Shuanjin Wang* and Yuezhong Meng*

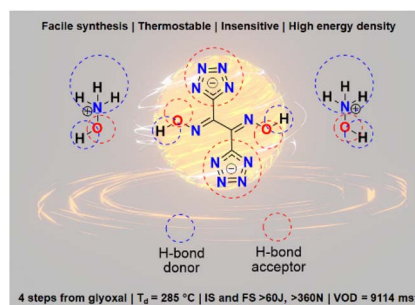


PAPERS

12896

Increasing the limits of energy and safety in tetrazoles: dioximes as unusual precursors to very thermostable and insensitive energetic materials

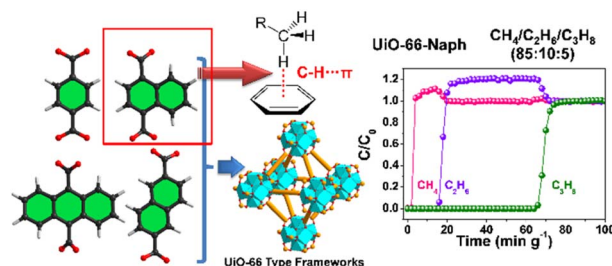
Jatinder Singh, Richard J. Staples and Jean'ne M. Shreeve*



12902

Engineering pore nanospaces by introducing aromatic effects in UiO-66 for efficient separation of light hydrocarbons

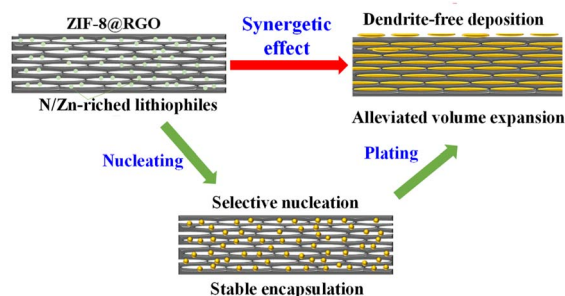
Liang Zhang, Xiao-Hong Xiong, Liu-Li Meng, Lu-Zhu Qin, Cheng-Xia Chen, Zhang-Wen Wei* and Cheng-Yong Su*



12910

A 3D lithiophilic ZIF-8@RGO free-standing scaffold with dendrite-free behavior enabling high-performance Li metal batteries

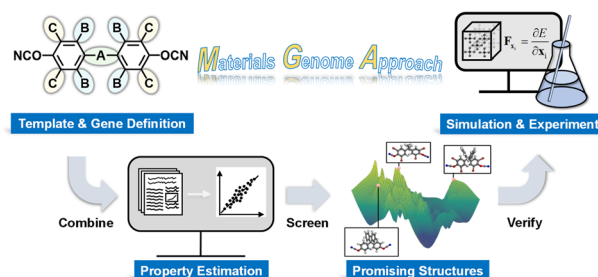
Qi Liu, Rilei Wang, Zhenfang Liu, Xianshu Wang,* Cuiping Han, Hongbo Liu* and Baohua Li*



12918

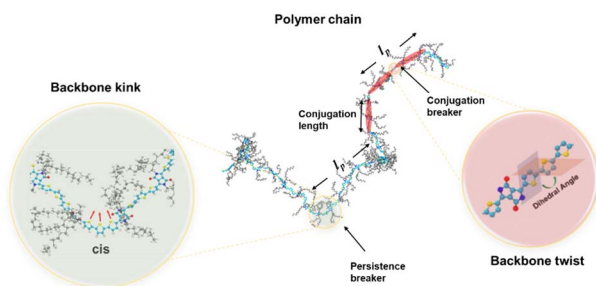
Discovery of thermosetting polymers with low hygroscopicity, low thermal expansivity, and high modulus by machine learning

Xinyao Xu, Wenlin Zhao, Yaxi Hu, Liquan Wang,* Jiaping Lin,* Huimin Qi and Lei Du



PAPERS

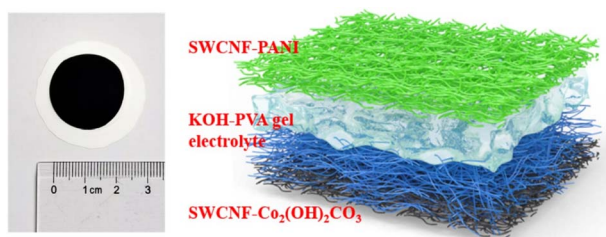
12928



Probing single-chain conformation and its impact on the optoelectronic properties of donor–accepter conjugated polymers

Zhiqiang Cao, Zhaofan Li, Sara A. Tolba, Gage T. Mason, Miao Xiong, Michael U. Ocheje, Amirhadi Alesadi, Changwoo Do, Kunlun Hong, Ting Lei, Simon Rondeau-Gagné, Wenjie Xia* and Xiaodan Gu*

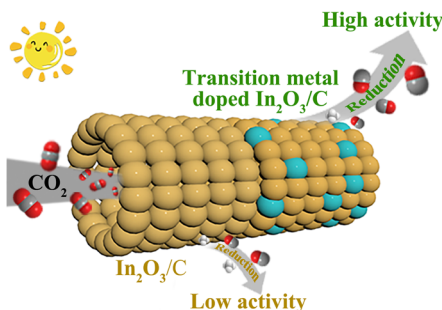
12941



High-quality single-walled carbon nanotube films as current collectors for flexible supercapacitors

Sheng Zhu, Zeyao Zhang,* Jian Sheng, Guodong Jia, Jiangfeng Ni* and Yan Li*

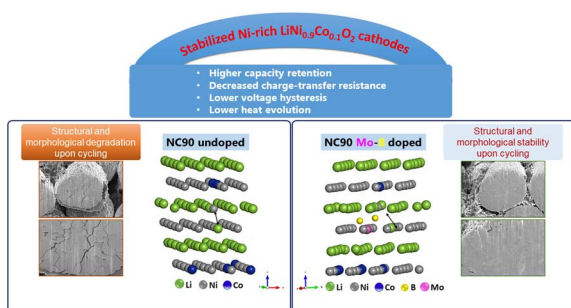
12950



Tailoring the electronic structure of $\text{In}_2\text{O}_3/\text{C}$ photocatalysts for enhanced CO_2 reduction

Awu Zhou, Chen Zhao, Jianchi Zhou, Yibo Dou,* Jian-Rong Li and Min Wei

12958



Stabilizing Ni-rich high energy cathodes for advanced lithium-ion batteries: the case of $\text{LiNi}_{0.9}\text{Co}_{0.1}\text{O}_2$

Francis Amalraj Susai, Amreen Bano, Sandipan Maiti, Judith Grinblat, Arup Chakraborty, Hadar Sclar, Tatyana Kravchuk, Aleksandr Kondrakov, Maria Tkachev, Michael Talianker, Dan Thomas Major,* Boris Markovsky* and Doron Aurbach*

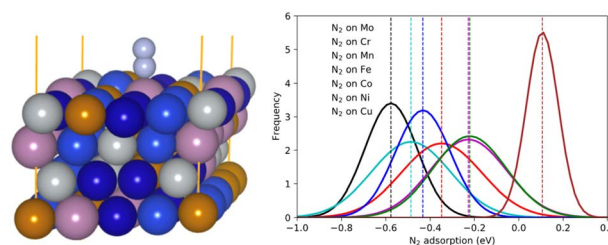


PAPERS

12973

N₂ adsorption on high-entropy alloy surfaces: unveiling the role of local environments

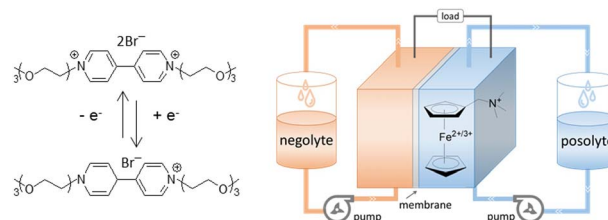
Rafael B. Araujo* and Tomas Edvinsson*



12984

Nonionic oligo(ethylene glycol)-substituted viologen negolytes for aqueous organic redox flow batteries

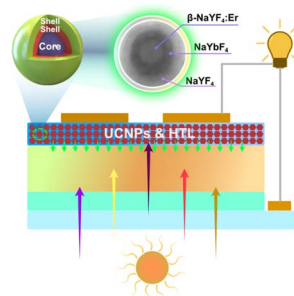
Yanxin Yao, Wanzhen Ma, Jiafeng Lei, Zengyue Wang, Yi-Chun Lu* and Lei Liu*



12992

Highly controllable and reproducible one-step synthesis of β -NaYF₄:Er³⁺@NaYbF₄@NaYF₄ upconversion nanoparticles for Sb₂(S,Se)₃ solar cells with enhanced efficiency

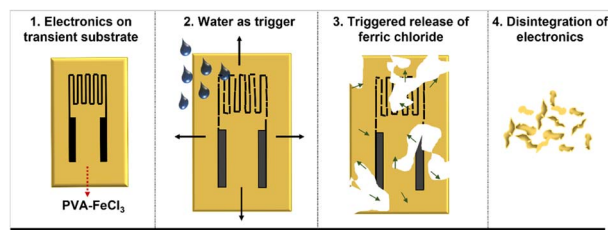
Xin Jin, Shin Woei Leow, Yanan Fang and Lydia Helena Wong*



12999

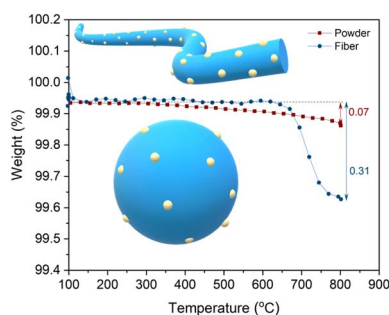
PVA-FeCl₃ composites as substrate and packaging materials for the controlled degradation of non-degradable metals in transient electronics

Neeru Mittal, Tae-Min Jang, Suk-Won Hwang* and Markus Niederberger*



PAPERS

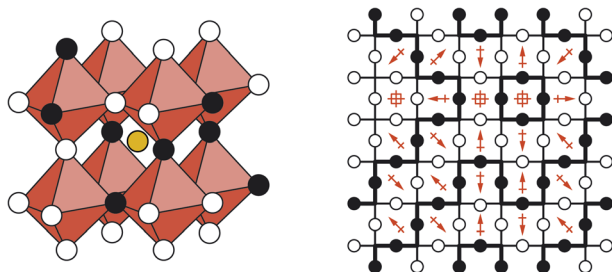
13007



Nanoparticle exsolution via electrochemical switching in perovskite fibers for solid oxide fuel cell electrodes

Min Xu,^{*} Ran Cao, Shitao Wu, JinGoo Lee, Di Chen^{*} and John T. S. Irvine^{*}

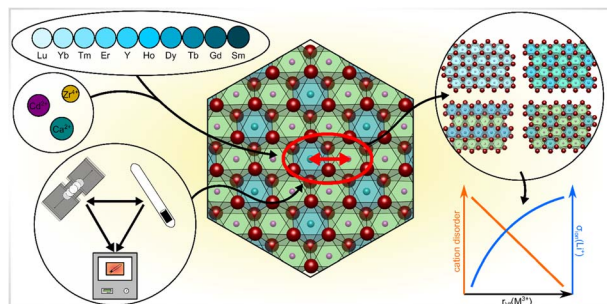
13016



Anion-polarisation-directed short-range-order in antiperovskite Li_2FeSO

Samuel W. Coles,^{*} Viktoria Falkowski, Harry S. Geddes, Gabriel E. Pérez, Samuel G. Booth, Alexander G. Squires, Conn O'Rourke, Kit McColl, Andrew L. Goodwin, Serena A. Cussen, Simon J. Clarke, M. Saiful Islam and Benjamin J. Morgan^{*}

13027



Influence of synthesis and substitution on the structure and ionic transport properties of lithium rare earth metal halides

Maximilian A. Plass, Sebastian Bette, Nina Philipp, Igor Moundrakovski, Kathrin Küster, Robert E. Dinnebier and Bettina V. Lotsch^{*}

CORRECTION

13039

Correction: The role of ion solvation in lithium mediated nitrogen reduction

O. Westhead, M. Spry, A. Bagger, Z. Shen, H. Yadegari, S. Favero, R. Tort, M. Titirici, M. P. Ryan, R. Jervis, Y. Katayama, A. Aguadero, A. Regoutz, A. Grimaud^{*} and I. E. L. Stephens^{*}

