Journal of Materials Chemistry A

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EDITORIAL

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

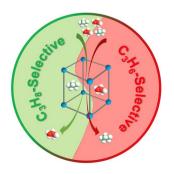


HIGHLIGHT

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Microporous metal-organic frameworks for the purification of propylene

Feng Xie, Hao Wang* and Jing Li*



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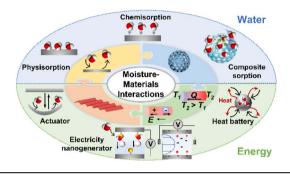
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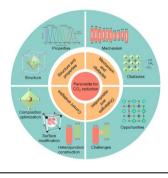
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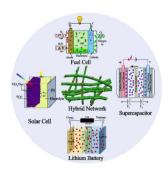
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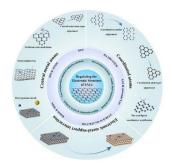
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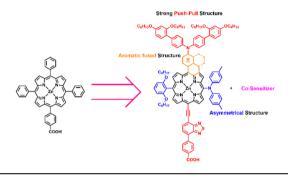
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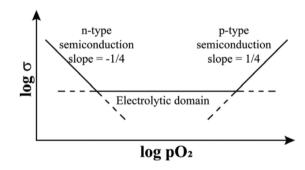
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Anthony R. West*

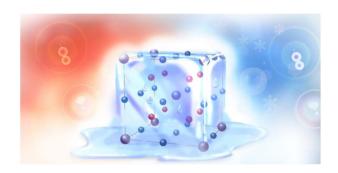


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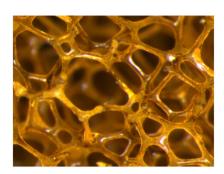
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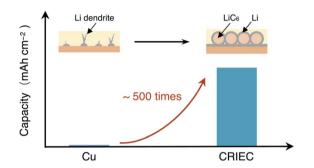
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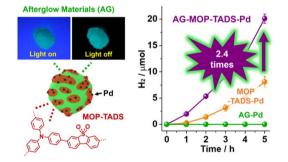
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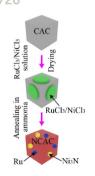


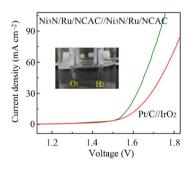
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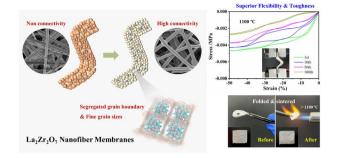
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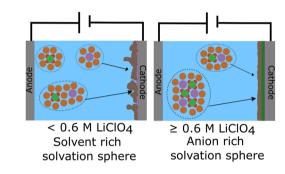
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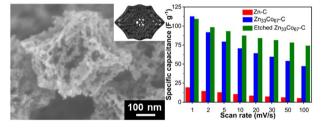


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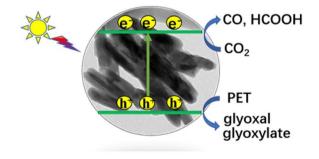
Co, N doped hierarchical porous carbon



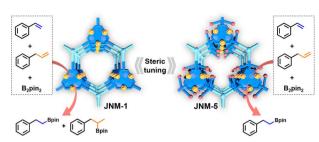
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Mengping Liu, Yu Xia, Wen Zhao, Ruiyi Jiang, Xin Fu, Brittney Zimmerle, Lihong Tian* and Xiaobo Chen*



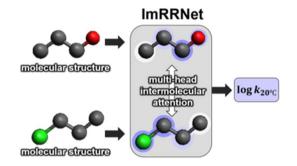
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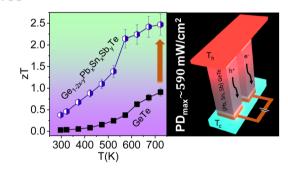
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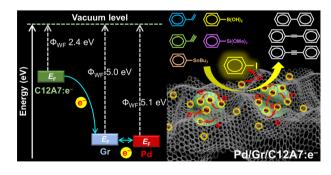
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High thermoelectric performance in entropy-driven $Ge_{1-2x-v}Pb_xSn_xSb_vTe$

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

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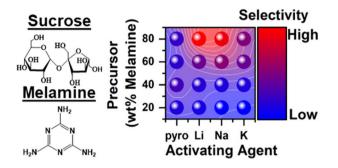
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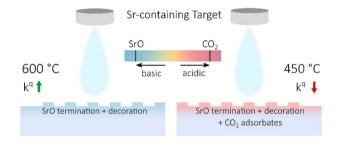
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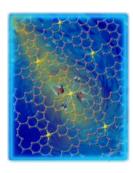
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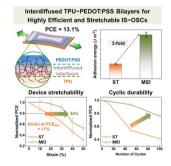
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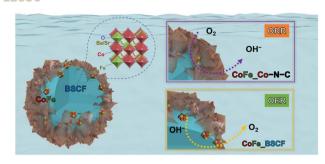
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Jinho Lee, Jin-Woo Lee, Hyunggwi Song, Myoung Song, Jinseok Park, Geon-U Kim, Dahyun Jeong, Taek-Soo Kim and Bumjoon J. Kim*



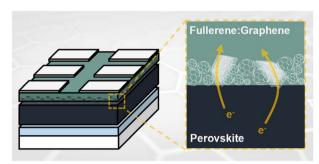
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Yasir Arafat, Muhammad Rizwan Azhar, Yijun Zhong, Ryan O'Hayre, Moses O. Tadé and Zongping Shao*

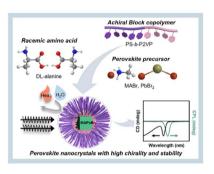
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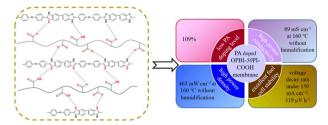
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Simultaneously achieving room-temperature circularly polarized luminescence and high stability in chiral perovskite nanocrystals *via* block copolymer micellar nanoreactors

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

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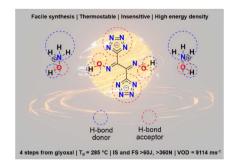
Composite membranes consisting of acidic carboxyl-containing polyimide and basic polybenzimidazole for high-temperature proton exchange membrane fuel cells

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

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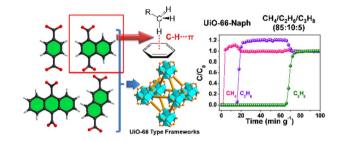
Jatinder Singh, Richard J. Staples and Jean'ne M. Shreeve*



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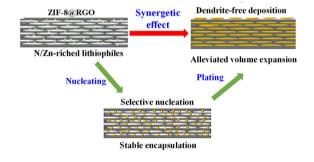
Liang Zhang, Xiao-Hong Xiong, Liu-Li Meng, Lu-Zhu Qin, Cheng-Xia Chen, Zhang-Wen Wei* and Cheng-Yong Su*



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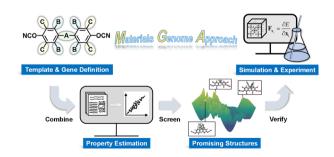
Qi Liu, Rilei Wang, Zhenfang Liu, Xianshu Wang,* Cuiping Han, Hongbo Liu* and Baohua Li*



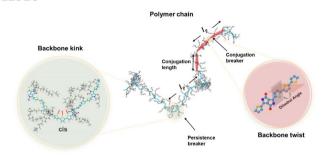
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Discovery of thermosetting polymers with low hygroscopicity, low thermal expansivity, and high modulus by machine learning

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



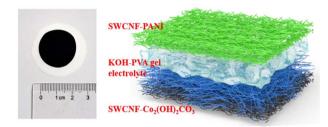
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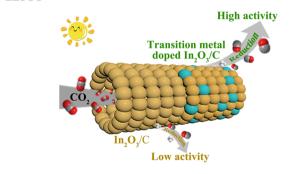
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High-quality single-walled carbon nanotube films as current collectors for flexible supercapacitors

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

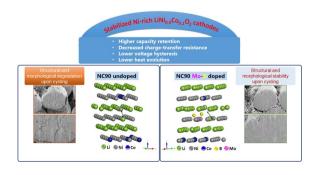
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Tailoring the electronic structure of In₂O₃/C photocatalysts for enhanced CO₂ reduction

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

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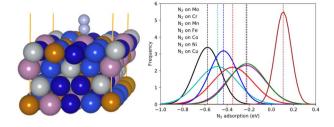
Stabilizing Ni-rich high energy cathodes for advanced lithium-ion batteries: the case of LiNi_{0.9}Co_{0.1}O₂

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*

12973

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

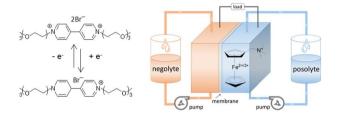
Rafael B. Araujo* and Tomas Edvinsson*



12984

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

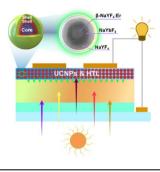
Yanxin Yao, Wanzhen Ma, Jiafeng Lei, Zengyue Wang, Yi-Chun Lu* and Lei Liu*



12992

Highly controllable and reproducible one-step synthesis of $\beta\text{-NaYF}_4\text{:Er}^{3+}\text{@NaYbF}_4\text{@NaYF}_4$ upconversion nanoparticles for $\text{Sb}_2(\text{S,Se})_3$ solar cells with enhanced efficiency

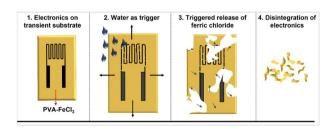
Xin Jin, Shin Woei Leow, Yanan Fang and Lydia Helena Wong*



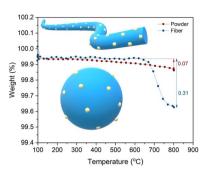
12999

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*



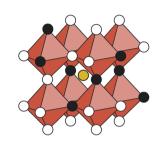
13007

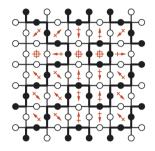


Nanoparticle exsolution *via* electrochemical switching in perovskite fibers for solid oxide fuel cell electrodes

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

13016

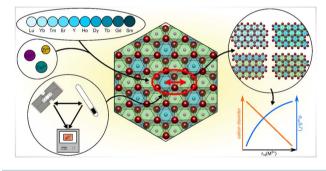




Anion-polarisation-directed short-range-order in antiperovskite Li_2FeSO

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*