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See Shinichi Komaba et al., pp. 1637-1647. Image reproduced by permission of Ryoichi Tatara from Mater. Adv., 2023. 4. 1637.

COMMUNICATIONS

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High-performance anodes for aqueous Zn-iodine batteries from spent Zn-air batteries

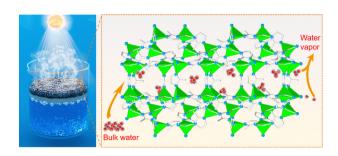
Xiaofeng Shan, Yanging Fu,* Dongdong Zhang, Pan Li, Weiyou Yang and Qiliang Wei*



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Composite membranes based on self-crosslinking polyelectrolyte-wrapped ZIF-8/CNT nanoparticles for solar steam evaporation

Yingying Zhu, Hongyu Lan, Panpan He, Xiangwei Zhu, Jiang Gong, Zhiyue Dong* and Minghua Zeng*



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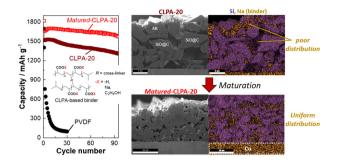
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High-performance SiO electrodes for lithium-ion batteries: merged effects of a new polyacrylate binder and an electrode-maturation process

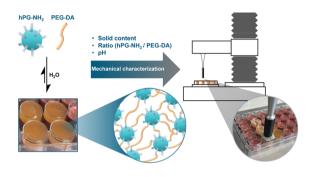
Shogo Yamazaki, Ryoichi Tatara, Hironori Mizuta, Kei Kawano, Satoshi Yasuno and Shinichi Komaba*



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Synthesis and characterization of a Schiff base crosslinked hydrogel based on hyperbranched polyglycerol

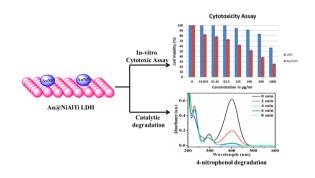
Kyriakos Karakyriazis, Vanessa Lührs, Sebastian Stößlein, Ingo Grunwald and Andreas Hartwig*



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Exploring the catalytic degradation of 4-nitrophenol and in vitro cytotoxicity of gold nanoparticle-doped NiAlTi LDH

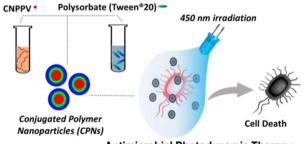
Garima Rathee, Heerak Chugh, Sahil Kohli, Rajesh K. Gaur and Ramesh Chandra*



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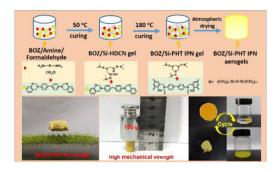
Conjugated polymer nanoparticles with tunable antibacterial photodynamic capability

Anderson R. L. Caires,* Thalita H. N. Lima and Thais F. Abelha*



Antimicrobial Photodynamic Therapy

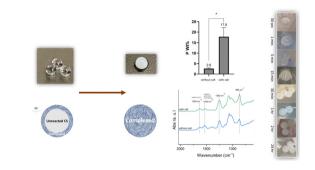
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High mechanically enhanced and degradable polybenzoxazine/polyhexahydrotriazine IPN aerogels by atmospheric drying

Yi Xu,* Xinyue Sun, Keqi Zhu, Shumin Xu, Changhui Liu, Shenghua Xiong and Chao Li*

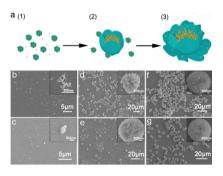
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Macro bead formation based on polyelectrolyte complexation between long-chain polyphosphates and chitosan

Sajjad Fanaee and Mark Joseph Filiaggi*

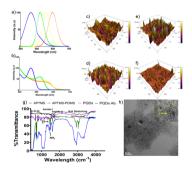
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Luminescent protein-rare earth fluoride nanoflowers

Wenyu Wei, Manman He, Jianrui Ma, Yirui Fan, Peng Liu* and Jianxi Xiao*

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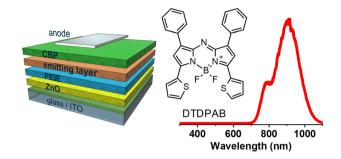
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Sulaxna Pandey and Dhananjay Bodas*

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AZABODIPY aggregates as a promising electroluminescent material for sustainable NIR OLED applications

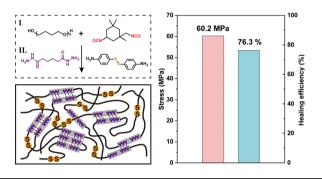
Wojciech Mróz,* Benedetta Maria Squeo, Barbara Vercelli, Chiara Botta and Mariacecilia Pasini



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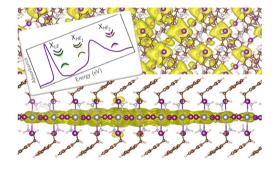
Chenghui Qiao, Xiurui Jian, Zhengguo Gao, Qingfu Ban,* Xintao Zhang, Huimin Wang and Yaochen Zheng*



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Plurality of excitons in Ruddlesden-Popper metal halides and the role of the B-site metal cation

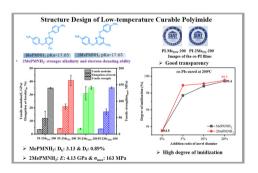
Giulia Folpini, Maurizia Palummo,* Daniele Cortecchia. Luca Moretti, Giulio Cerullo, Annamaria Petrozza, Giacomo Giorgi* and Ajay Ram Srimath Kandada*



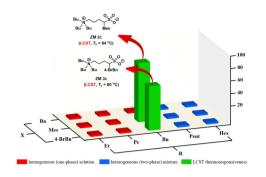
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High-performance low temperature curable copolyimides via multidimensional modulation in alkaline environment and electronic effects of monomers

Xialei Lv, Shan Huang, Zimeng He, Jinhui Li,* Siyao Qiu, Tao Wang, Yun Bai, Yao Zhang, Guoping Zhang* and Rong Sun



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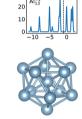


Exploiting α -benzylated 1,4-butanesultones to expedite the discovery of small-molecule, LCST-type sulfobetaine zwitterionic materials

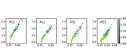
Yen-Ho Chu,* Pin-Hsuan Chen and Hsin-Heng Huang

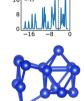
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Optimally matched cluster



Small clusters tend to adopt structures such that the resulting shells can be filled completely by the number of available electrons

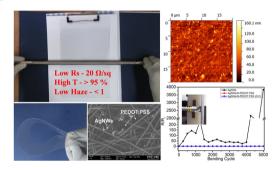




Principles of isomer stability in small clusters

Giuseppe Fisicaro,* Bastian Schaefer, Jonas A. Finkler and Stefan Goedecker

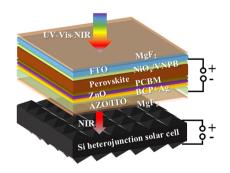
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One-step fabrication of highly stable, durable, adhesion enhanced, flexible, transparent conducting films based on silver nanowires and neutralized PEDOT:PSS

Subramani Devaraju, Aruna Kumar Mohanty, Du-hyun Won and Hyun-jong Paik*

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Designed multi-layer buffer for high-performance semitransparent wide-bandgap perovskite solar cells

Junjie Lou, Jiangshan Feng,* Yang Cao, Yucheng Liu, Yong Qin* and Shengzhong (Frank) Liu*