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Cover

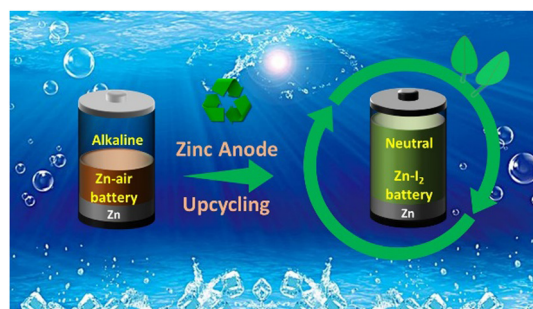
See Shinichi Komaba *et al.*, pp. 1637–1647. Image reproduced by permission of Ryoichi Tatara from *Mater. Adv.*, 2023, 4, 1637.

COMMUNICATIONS

1623

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

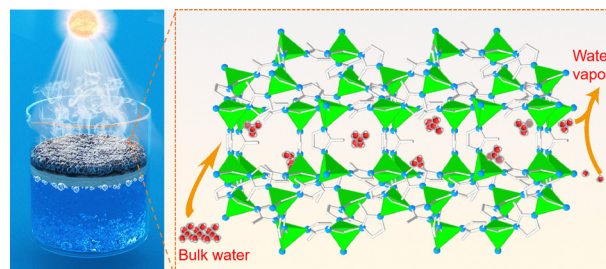
Xiaofeng Shan, Yanqing Fu,* Dongdong Zhang, Pan Li, Weiyu Yang and Qiliang Wei*



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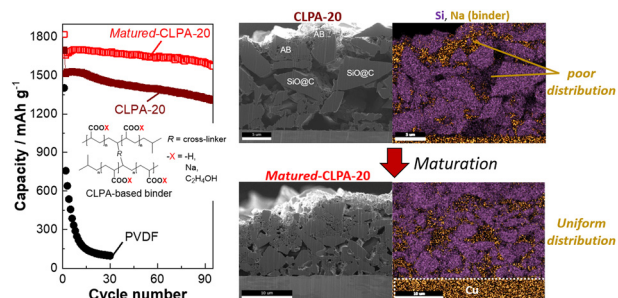
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High-performance SiO electrodes for lithium-ion batteries: merged effects of a new polyacrylate binder and an electrode-maturation process

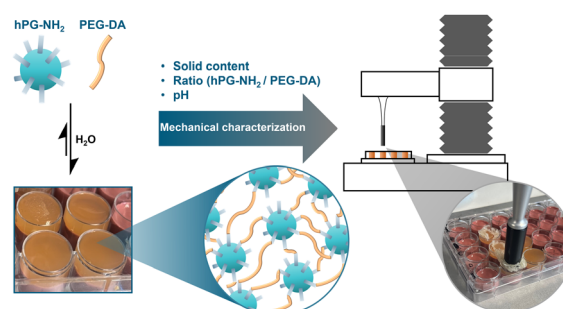
Shogo Yamazaki, Ryoichi Tatara, Hironori Mizuta, Kei Kawano, Satoshi Yasuno and Shinichi Komaba*



1648

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

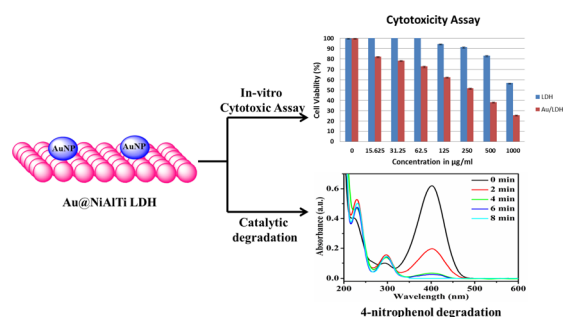
Kyriakos Karakyriazis, Vanessa Lührs, Sebastian Stößlein, Ingo Grunwald and Andreas Hartwig*



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

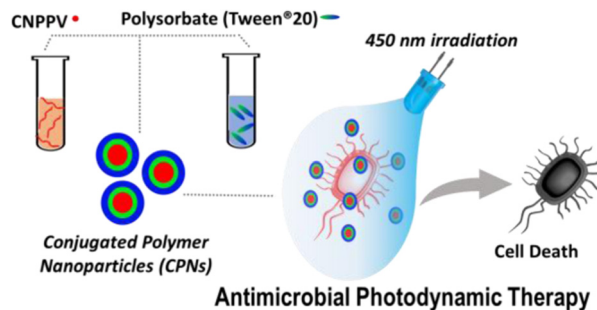
Garima Rathee, Heerak Chugh, Sahil Kohli, Rajesh K. Gaur and Ramesh Chandra*



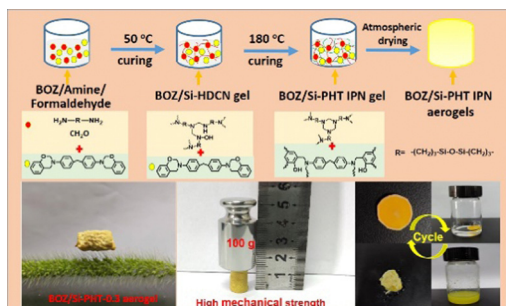
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Conjugated polymer nanoparticles with tunable antibacterial photodynamic capability

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



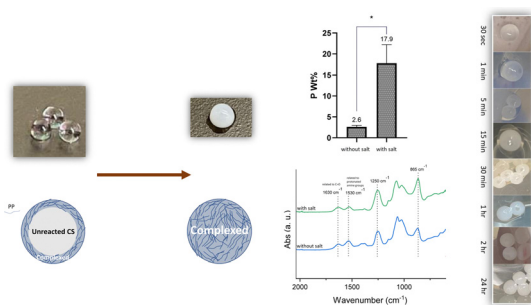
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High mechanically enhanced and degradable polybenzoxazine/polyhexahydrotriazine IPN aerogels by atmospheric drying

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

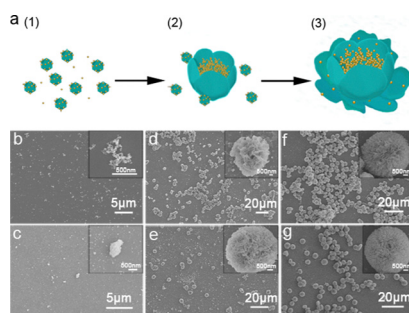
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Macro bead formation based on polyelectrolyte complexation between long-chain polyphosphates and chitosan

Sajjad Fanaee and Mark Joseph Filiaggi*

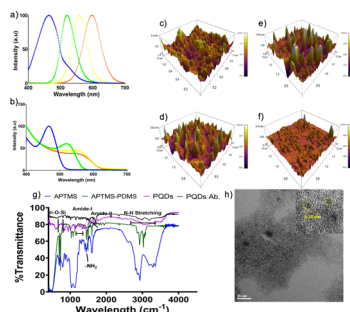
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Luminescent protein-rare earth fluoride nanoflowers

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

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Exploiting the UV excited size-dependent emission of PDMS-coated CdTe quantum dots for *in vitro* simultaneous multicolor imaging of HepG2 cellular organelles

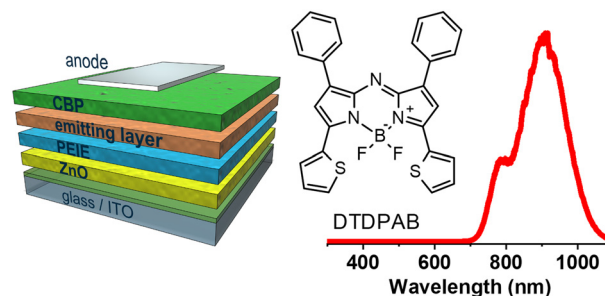
Sulaxna Pandey and Dhananjay Bodas*



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

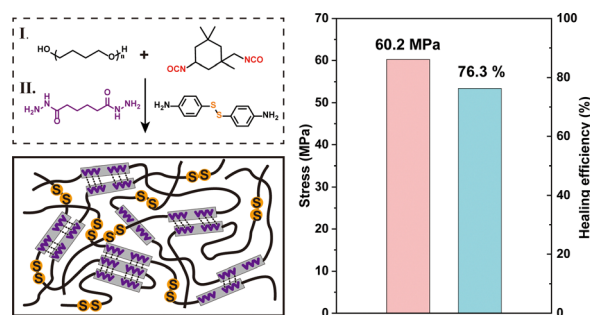
Wojciech Mróz,* Benedetta Maria Squeo, Barbara Vercelli, Chiara Botta and Mariacecilia Pasini



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Tough polyurethane elastomers with high strength and rapid healing ability

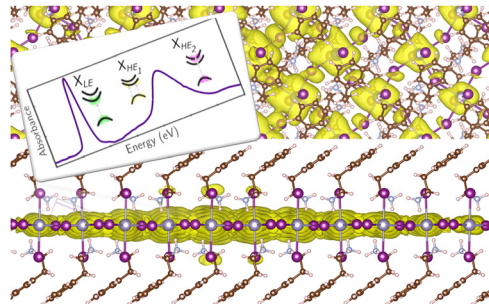
Chenghui Qiao, Xiurui Jian, Zhengguo Gao, Qingfu Ban,* Xintao Zhang, Huimin Wang and Yaochen Zheng*



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

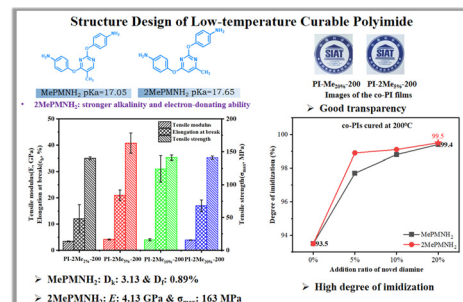
Giulia Folpini, Maurizia Palummo,* Daniele Cortecchia, Luca Moretti, Giulio Cerullo, Annamaria Petrozza, Giacomo Giorgi* and Ajay Ram Srimath Kandada*



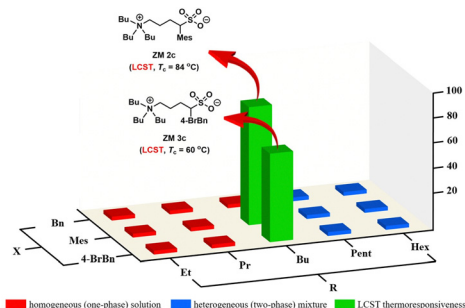
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High-performance low temperature curable copolyimides *via* multidimensional modulation in alkaline environment and electronic effects of monomers

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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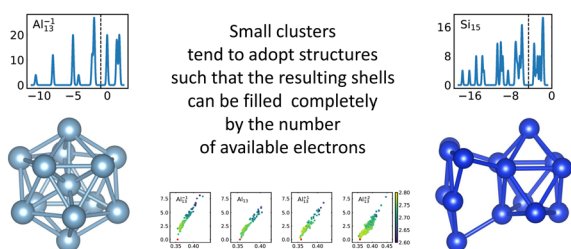


Exploiting α -benzylated 1,4-butanedisulfonates to expedite the discovery of small-molecule, LCST-type sulfobetaine zwitterionic materials

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

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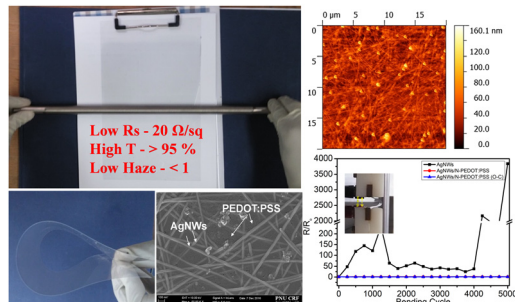
Optimally matched cluster



Principles of isomer stability in small clusters

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

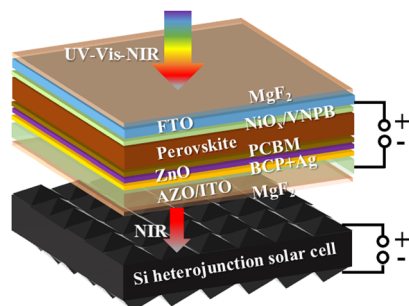
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One-step fabrication of highly stable, durable, adhesion enhanced, flexible, transparent conducting films based on silver nanowires and neutralized PEDOT:PSS

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*

