

Materials Advances

An open access journal publishing across the breadth of materials science

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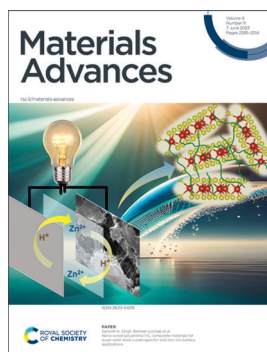
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See Kyung Min Lee, Nicholas P. Godman *et al.*, pp. 2418–2424. Image reproduced by permission of Nicholas P. Godman and Kyung Min Lee from *Mater. Adv.*, 2023, 4, 2418.



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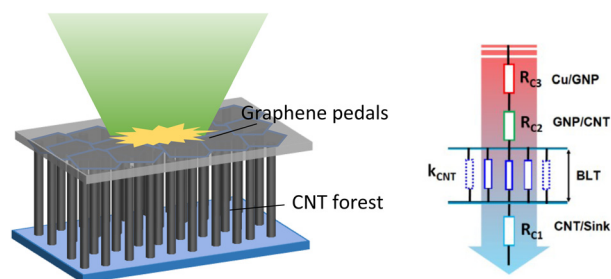
See Santosh K. Singh, Bimlesh Lochab *et al.*, pp. 2425–2436. Image reproduced by permission of Saad Zafar, Santosh K. Singh and Bimlesh Lochab from *Mater. Adv.*, 2023, 4, 2425.

COMMUNICATIONS

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Laser engineering of heterostructured graphitic petals on carbon nanotube forests for robust thermal interface capable of swift heat transfer

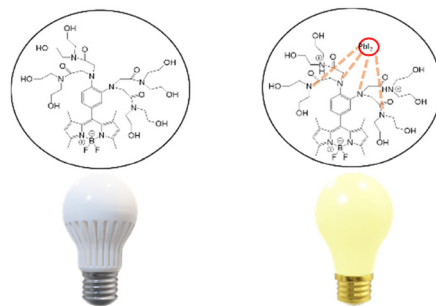
Prashant Kumar,* Qiong Nian, Guoping Xiong, Timothy S. Fisher and Gary J. Cheng*



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A fluorescent sensor to detect lead leakage from perovskite solar cells

Lorenzo Pancini, Riccardo Montecucco, Valentina Larini, Alessandra Benassi, Diego Mirani, Giovanni Pica, Michele De Bastiani, Filippo Doria* and Giulia Grancini*



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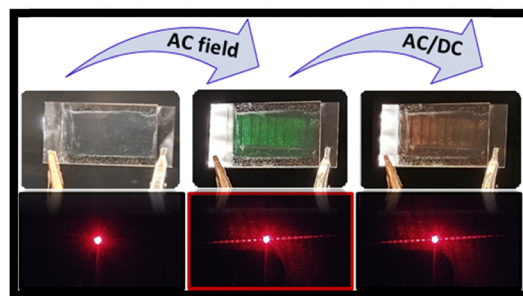


PAPERS

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Anti-counterfeiting holographic liquid crystal gels with color and pattern control

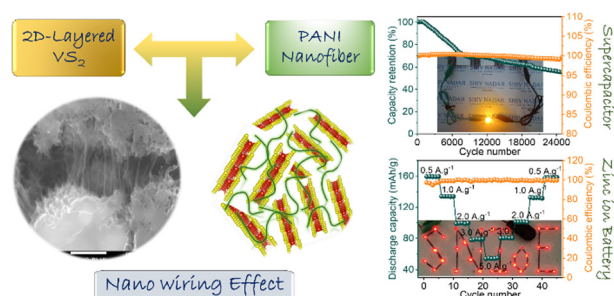
Kyung Min Lee,* Victor Yu. Reshetnyak,
Cedric P. Ambulo, Zachary M. Marsh,
Michael E. McConney and Nicholas P. Godman*



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Nano-wired polyaniline/VS₂ composite materials for quasi-solid-state supercapacitor and zinc-ion battery applications

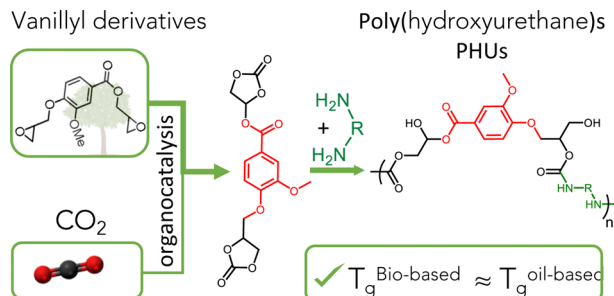
Saad Zafar, Santosh K. Singh* and Bimlesh Lochab*



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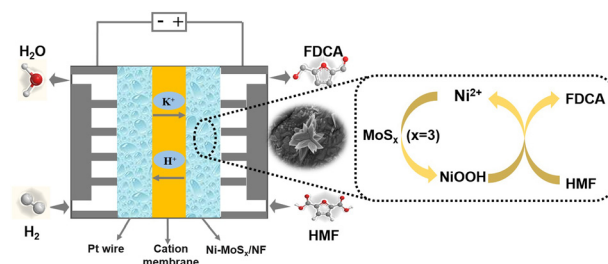
Noé Fanjul-Mosteirín, Lucas Polo Fonseca,
Andrew P. Dove* and Haritz Sardon*



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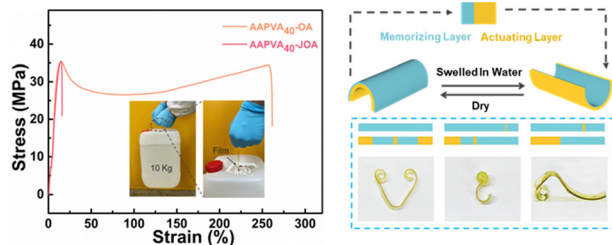
Electrochemical oxidation of 5-hydroxymethylfurfural over a molybdenum sulfide modified nickel-based catalyst

Zijia Li, Yingyi Han, Baobing Huang,* Zilai Xie and
Qiao-Hua Wei*



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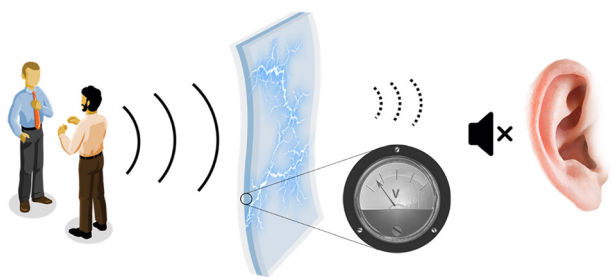
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Strong and tough octyl enamine-grafted polyvinyl alcohol with programmable shape deformation via simple soaking treatment

Xiaomin Chen, Youwei Ma, Yuhong Qiao, Wen Yao Guo, Yulin Min, Jinchen Fan* and Zixing Shi*

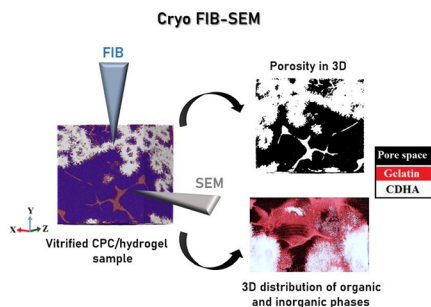
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Enhancing sound insulation of glass interlayer films by introducing piezoelectric fibers

Donghe Chen, Shuo Zheng, Mingyu Jing, Zaiqian Yu, Jiawei Zhang, Longjiao Yu, Shulin Sun and Shiwei Wang*

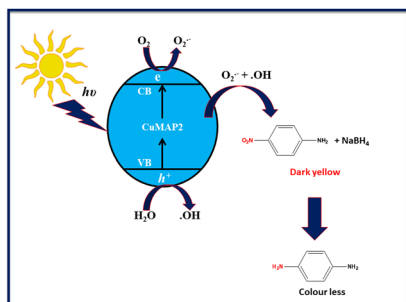
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Probing the microporosity and 3D spatial distribution of calcium phosphate cement/hydrogel biomaterials using FIB/SEM at cryogenic temperatures

Mouad Essani,* Baptiste Charbonnier, Nicolas Stephant, Hilel Moussi, Pierre Weiss, Jean Le Bideau and Patricia Abellan*

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A new copper molybdate-doped aluminium phosphate nanocomposite heterostructure for photoreduction of aqueous 2-NA and 4-NA

Tanmay Kumar Ghorai,* Saumadip Chakraborty, Nilesh Satpute, Sajid Mehmood, Niteesh Kumar, Sanjay Kumar Sahu and Mithun Kumar Ghosh

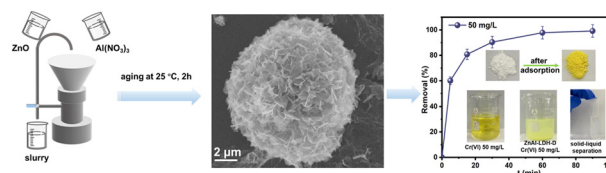


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A facile, green and scalable approach to fabricate hierarchical ZnAl-LDH for efficient removal of hexavalent chromium

Tingting Liu, Meiqi Zheng, Kaiyue Ji, Xiaomeng Xue, Jiangrong Yang, Mingfei Shao, Haohong Duan* and Xianggui Kong*



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Determination of Pb²⁺ and Cd²⁺ ions in raw milk, honey and groundnut using TSAB/MWCNT

Jayagopi Gayathri,* Sivakumar Sivalingam* and Sanglimuthu Sriman narayanan

