

Materials Advances

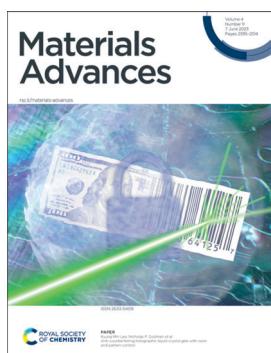
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IN THIS ISSUE

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Inside cover

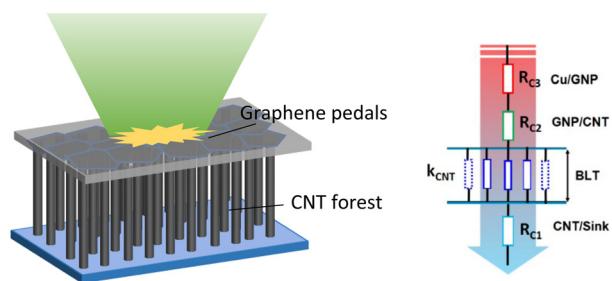
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COMMUNICATIONS

2402

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

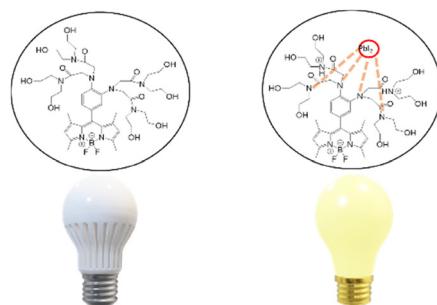
Prashant Kumar,* Qiong Nian, Guoping Xiong,
Timothy S. Fisher and Gary J. Cheng*



2410

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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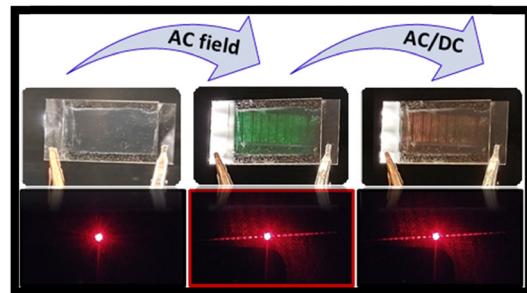


PAPERS

2418

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

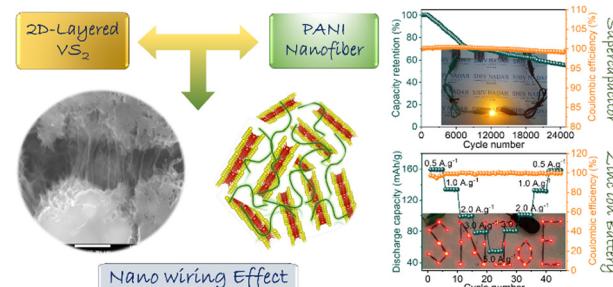
Kyung Min Lee,* Victor Yu. Reshetnyak,
Cedric P. Ambulo, Zachary M. Marsh,
Michael E. McConney and Nicholas P. Godman*



2425

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

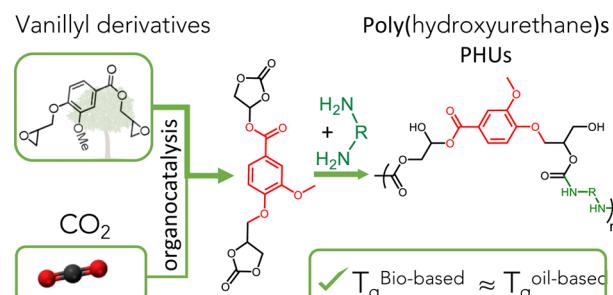
Saad Zafar, Santosh K. Singh* and Bimlesh Lochab*



2437

Bio-based non-isocyanate poly(hydroxy urethane)s (PHU) derived from vanillin and CO₂

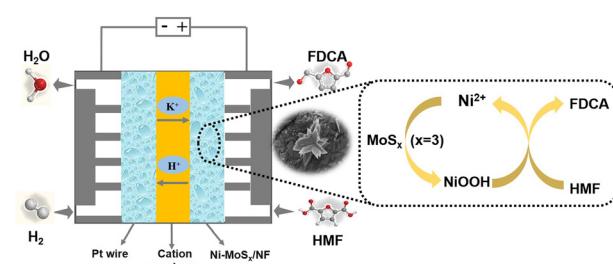
Noé Fanjul-Mosteirín, Lucas Polo Fonseca,
Andrew P. Dove* and Haritz Sardon*



2449

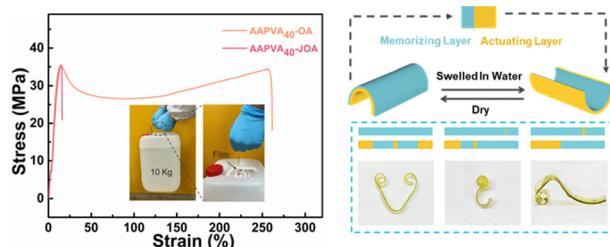
Electrochemical oxidation of 5-hydroxymethylfurfural over a molybdenum sulfide modified nickel-based catalyst

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



PAPERS

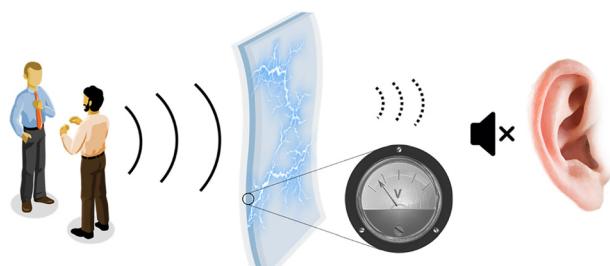
2457



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

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

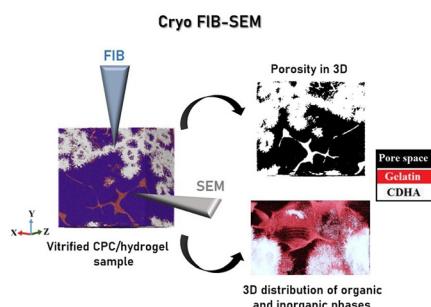
2466



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*

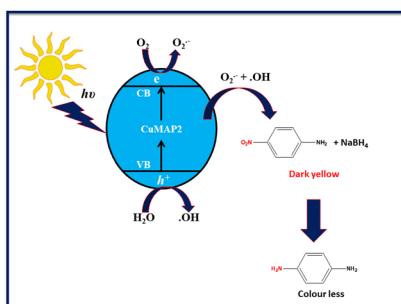
2474



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

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

2487



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

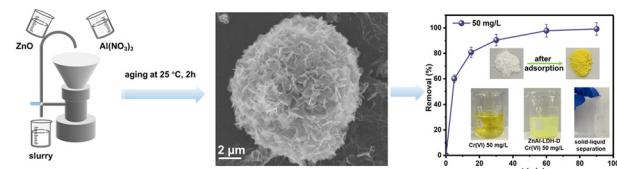


PAPERS

2494

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*



2502

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

Jayagopi Gayathri,* Sivakumar Sivalingam* and Sanglimuthu Sriman narayanan

