

Materials Advances

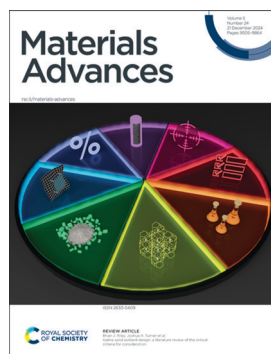
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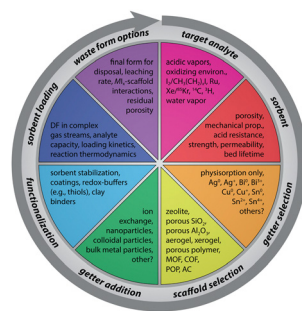
See Brian J. Riley,
Joshua R. Turner *et al.*,
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Iodine solid sorbent design: a literature review of the critical criteria for consideration

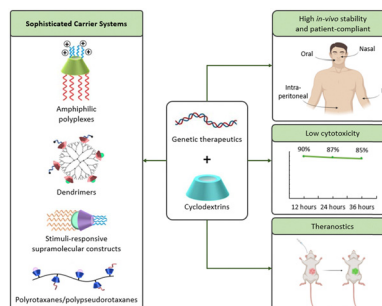
Brian J. Riley,* Joshua R. Turner,* Joanna McFarlane, Saehwa Chong, Krista Carlson and Josef Matyáš



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Active transfection of genetic materials using cyclodextrin-anchored nanovectors

Amey Revdekar, Bhagyashree V. Salvi and Pravin Shende*



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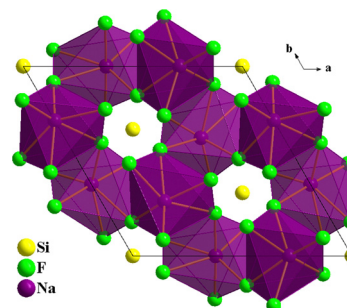
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COMMUNICATION

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A deep-ultraviolet nonlinear-optical material with a wide bandgap and large static dielectric polarizability coefficient: $\text{Na}_6\text{Si}_3\text{F}_{18}$

Changcheng Tang,* Xingxing Jiang, Xiuyu Wu, Yuechen Gong, Chao Yang, Ruixin Guo, Panpan Wang, Yongming Huang, Dakun Zhou, Huaiming Chen and Zheshuai Lin

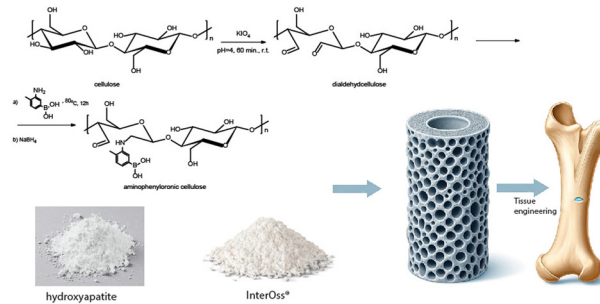


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Integrating hydroxyapatite and bovine bone mineral into cellulose–collagen matrices for enhanced osteogenesis

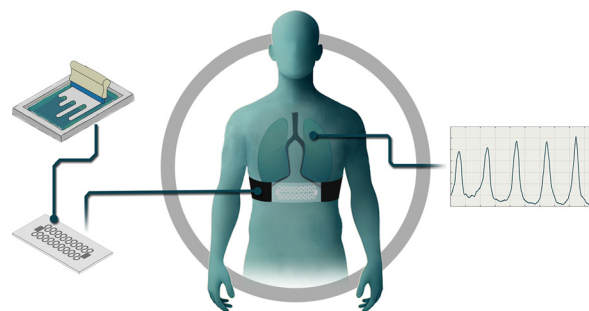
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Screen-printed wearable sensors for continuous respiratory rate monitoring: fabrication, clinical evaluation, and point-of-care potential

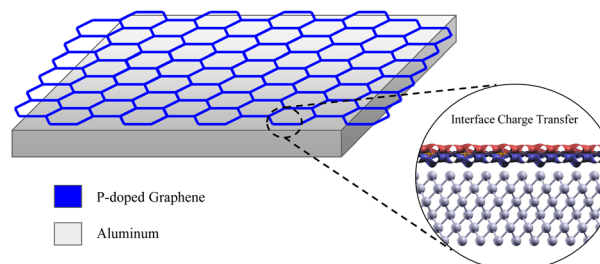
Ala'aldeen Al-Halhouli,* Ahmed Albagdady, Alexander Rabadi, Musab Hamdan, Jumana Abu-Khalaf and Mahmoud Abu-Abeeleh



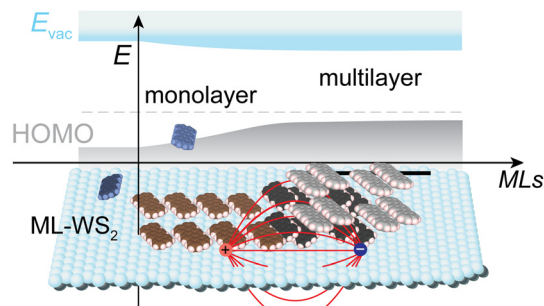
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Reinforcement of aluminum metal matrix composites through graphene and graphene-like monolayers: a first-principles study

Ellie Zhang* and Xuan Luo



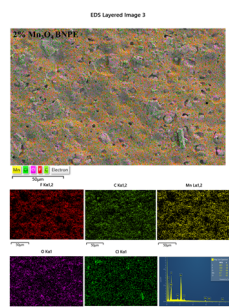
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Terrylene on monolayer WS_2 : coverage-dependent molecular re-orientation and interfacial electronic energy levels

Qiang Wang, Sifan You, Björn Kobin, Patrick Amsalem, Fengshuo Zu, Rongbin Wang, Andreas Opitz, Stefan Hecht, Lifeng Chi and Norbert Koch*

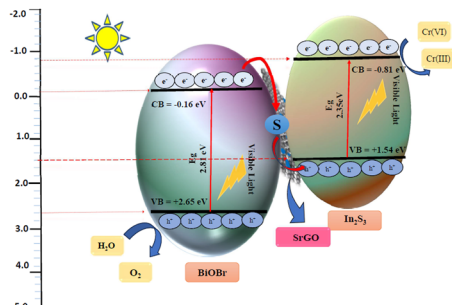
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Enhancing lithium-ion conductivity: impact of hausmannite nanofiller on PVDF–HFP/PEG blend nanocomposite polymer electrolytes

Khizar Hayat Khan, Aneesa Zafar, Haroon Rashid, Iftikhar Ahmad, Gul Shahzada Khan and Hazrat Hussain*

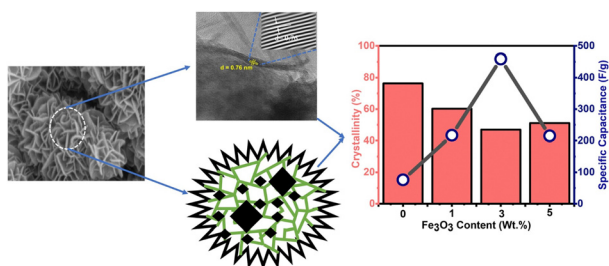
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Treatment of chromium-contaminated water using a highly efficient, novel ternary synergistic S–rGO–BiOBr– In_2S_3 heterojunction

Satyanjib Sahoo, Naresh Kumar Sahoo,*
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Disorder induced augmentation of the specific capacitance of δ - MnO_2 nanoflowers by incorporating Fe_3O_4 nanodiamonds for supercapacitor electrodes

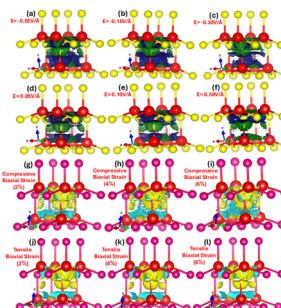
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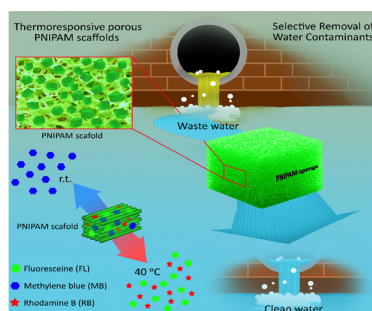
Fakhar E. Alam, Basharat Ali and Suneela Arif*



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Thermoresponsive scaffolds fabricated using covalent organic frameworks for the selective removal of water contaminants

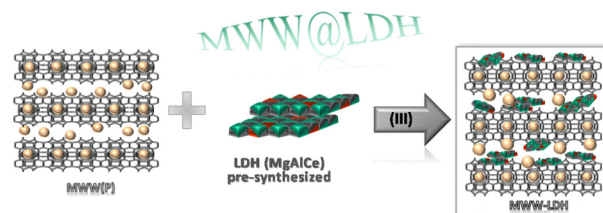
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Design and characterization of multi-component lamellar materials based on MWW-type zeolitic layers and metal oxide sub-domains

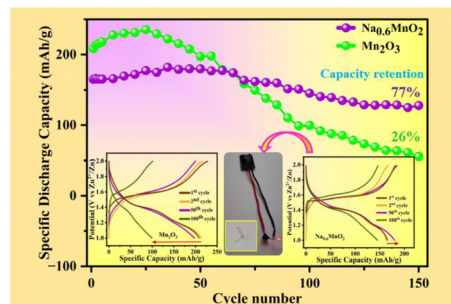
Cristina Esteban, Alexandra Veltý* and Urbano Díaz*



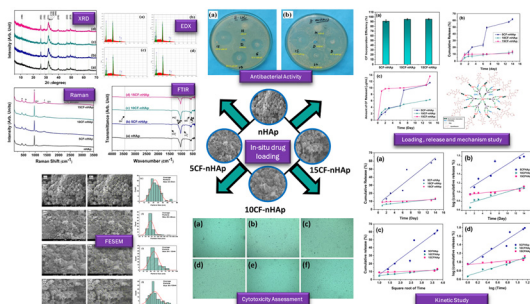
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Enhancing the cycling performance of manganese oxides through pre-sodiation for aqueous Zn-ion batteries

Anjeline Williams and Prasant Kumar Nayak*



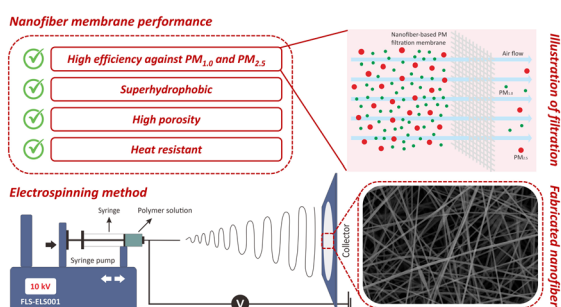
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Poultry waste derived *in situ* drug loaded nano-hydroxyapatite bio-ceramic material for osteomyelitis treatment: *in vitro* drug release and biocompatibility studies

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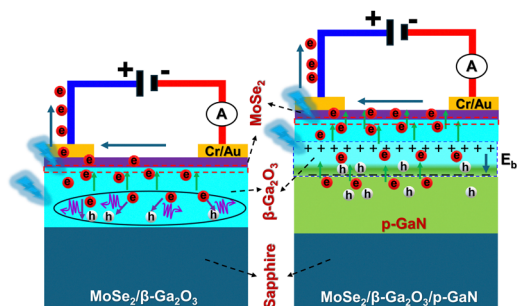
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A superhydrophobic and heat-resistant PAN/PSU/PTFE composite nanofiber membrane for high-efficiency PM_{1.0} and PM_{2.5} filtration

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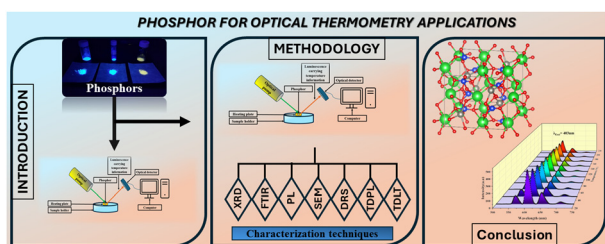
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Unveiling the synergic potential of dual junction MoSe₂/n-Ga₂O₃/p-GaN heterojunctions for ultra-broadband photodetection

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Structural, thermal, and optical spectroscopic studies of Sm³⁺-doped Ba₂ZnSi₂O₇ phosphors for optical thermometry applications

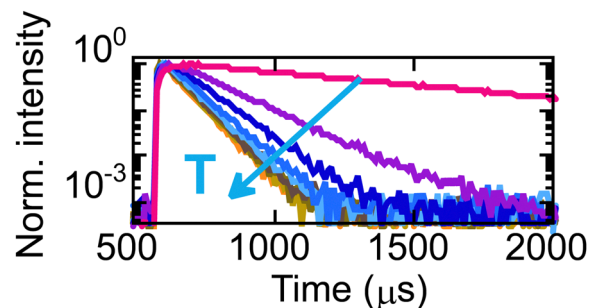
Tejas, A. Princy, S. Masilla Moses Kennedy, Vikash Mishra, M. I. Sayyed, Taha A. Hanafy and Sudha D. Kamath*



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Promising single crystal host for bulk scintillators: luminescence and energy migration in (Gd,Y)AlO₃

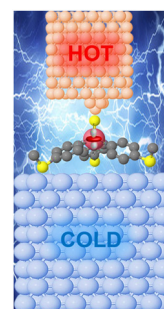
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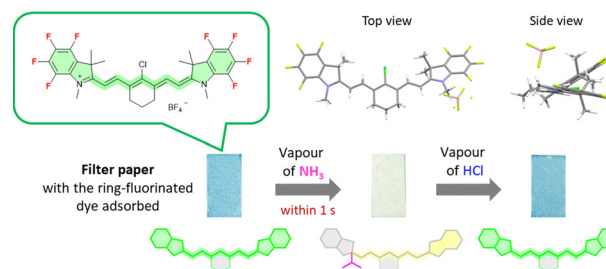
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A ring-fluorinated heptamethine cyanine dye: synthesis, photophysical properties, and vapo-chromic properties in response to ammonia

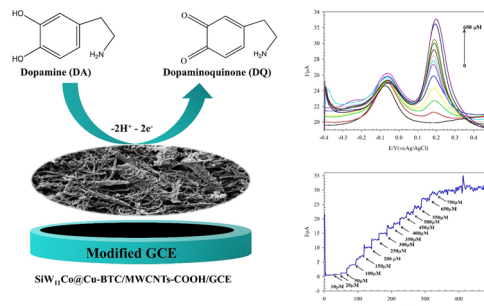
Shouhei Ajioka, Yuto Hagiyama, Yuki Uehashi, Tomohiro Agou, Yasuhiro Kubota, Toshiyasu Inuzuka and Kazumasa Funabiki*



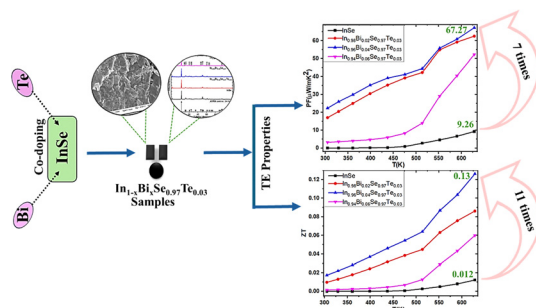
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A novel synthesis of inorganic–organic nanohybrid based on SiW₁₁Co@Cu–BTC/MWCNTs–COOH for electrocatalytic oxidation of dopamine

Zahra Sadeghi and Somayeh Dianat*



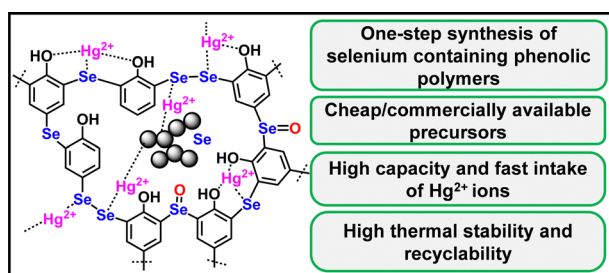
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Bismuth and tellurium co-doping: a route to improve thermoelectric efficiency in InSe polycrystals

Manasa R. Shankar, A. N. Prabhu* and Tulika Srivastava

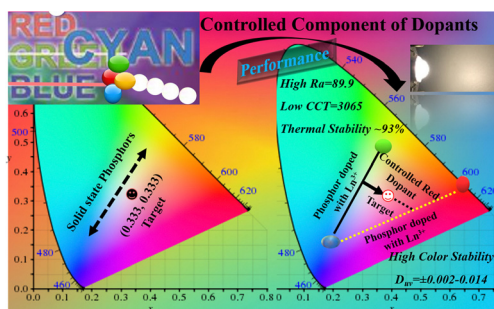
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Arylselanyl motifs in hierarchically structured mesoporous phenolic polymers: efficient adsorption sites for Hg²⁺ ions

Vishnu Selladurai and Selvakumar Karuthapandi*

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White light emission and superior color stability in a single-component host with exceptional eminent color rendering and theoretical calculations on D_{uv} for color quality

Wasim Ullah Khan, Waheed Ullah Khan, Haris Zaman, Ayaz Mahsud, Dilfaraz Khan,* Salim Ullah Khan, Shuakat Khan and Yueli Zhang*

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Correction: A perspective on contact-electro-catalysis based on frontier molecular orbitals

Ziming Wang, Xuanli Dong, Fu-Jie Lv and Wei Tang*

