

Materials Advances

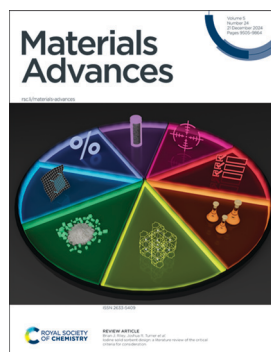
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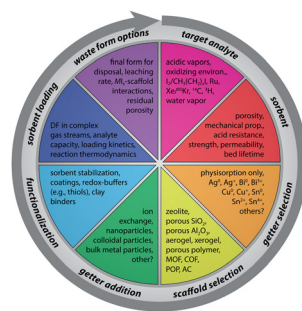
See Brian J. Riley,
Joshua R. Turner *et al.*,
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REVIEWS

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Iodine solid sorbent design: a literature review of the critical criteria for consideration

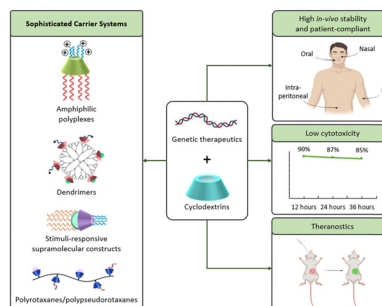
Brian J. Riley,* Joshua R. Turner,* Joanna McFarlane, Saehwa Chong, Krista Carlson and Josef Matyáš



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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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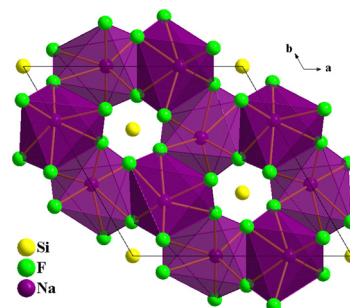
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COMMUNICATION

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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

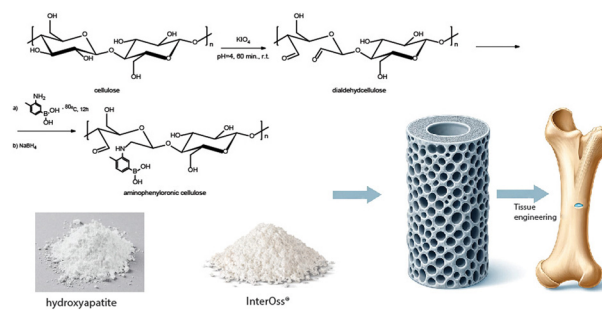


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Integrating hydroxyapatite and bovine bone mineral into cellulose–collagen matrices for enhanced osteogenesis

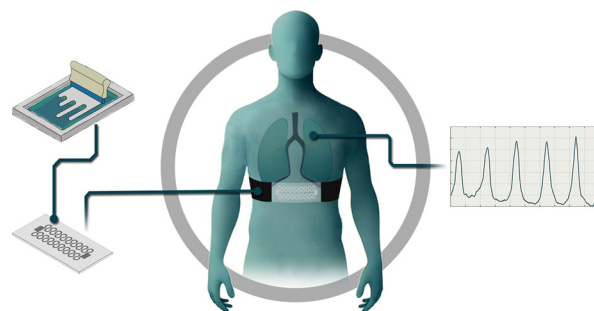
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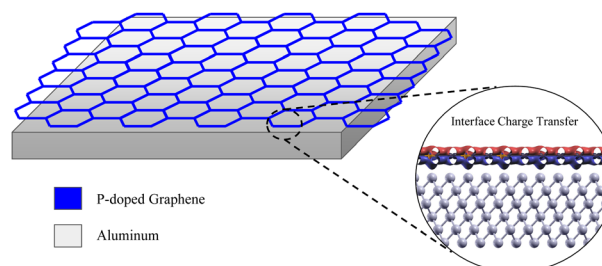
Ala'aldeen Al-Halhouli,* Ahmed Albagdady, Alexander Rabadi, Musab Hamdan, Jumana Abu-Khalaf and Mahmoud Abu-Abeeleh



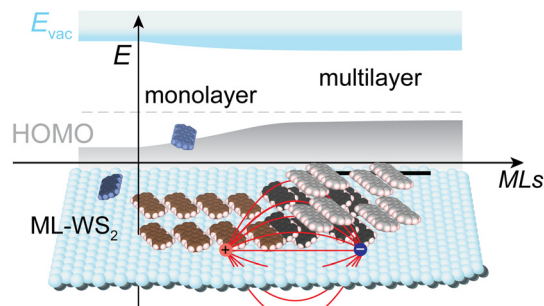
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Reinforcement of aluminum metal matrix composites through graphene and graphene-like monolayers: a first-principles study

Ellie Zhang* and Xuan Luo



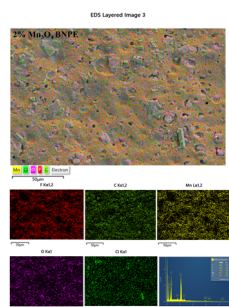
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Terrylene on monolayer WS_2 : coverage-dependent molecular re-orientation and interfacial electronic energy levels

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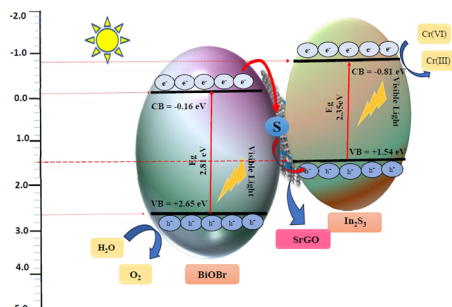
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Enhancing lithium-ion conductivity: impact of hausmannite nanofiller on PVDF–HFP/PEG blend nanocomposite polymer electrolytes

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

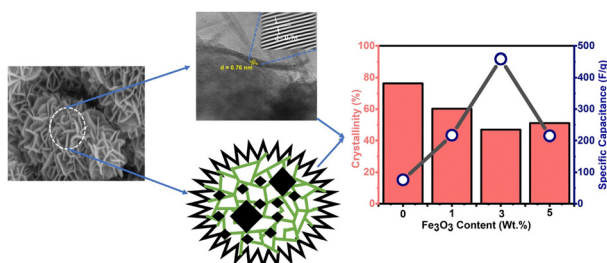
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Treatment of chromium-contaminated water using a highly efficient, novel ternary synergistic S–rGO–BiOBr– In_2S_3 heterojunction

Satyanjib Sahoo, Naresh Kumar Sahoo,*
Prasanta Kumar Sahoo, Soumya Mishra, Arun Kumar, Brundabana Naik and Prangya Ranjan Rout

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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

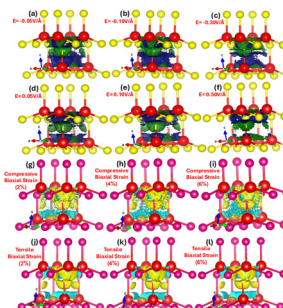
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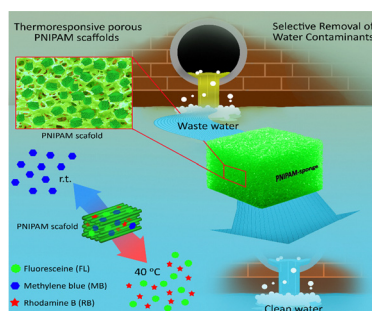
Fakhar E. Alam, Basharat Ali and Suneela Arif*



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

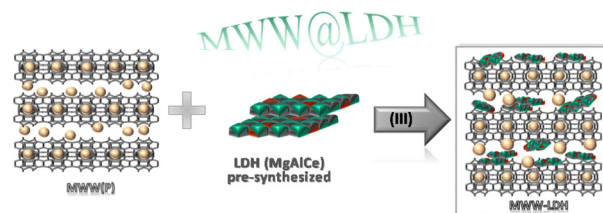
Safoora Gazvineh, Siamak Beyranvand, Sara Saki, Mohammad Nemat, Kai Ludwig, Patrick Amsalem, Thorstenn Schultz, Chong Cheng and Mohsen Adeli*



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

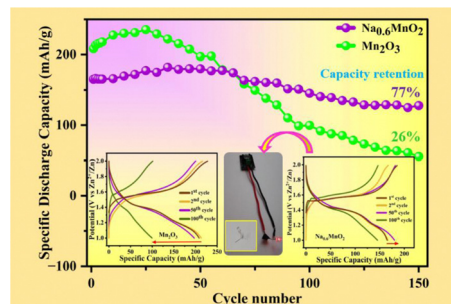
Cristina Esteban, Alexandra Velty* and Urbano Díaz*



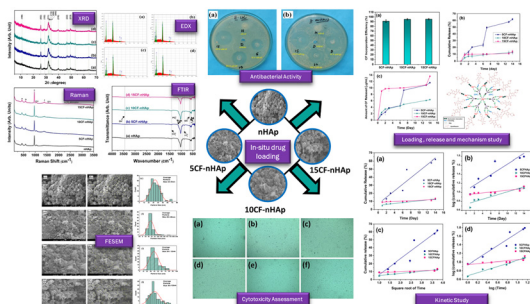
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Enhancing the cycling performance of manganese oxides through pre-sodiation for aqueous Zn-ion batteries

Anjeline Williams and Prasant Kumar Nayak*



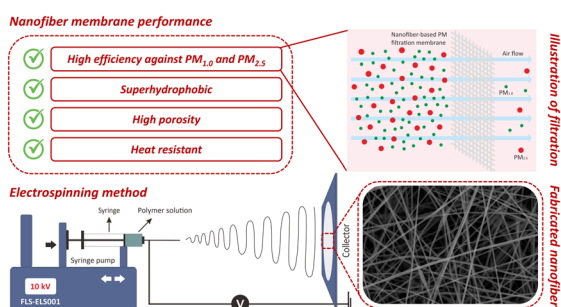
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Poultry waste derived *in situ* drug loaded nano-hydroxyapatite bio-ceramic material for osteomyelitis treatment: *in vitro* drug release and biocompatibility studies

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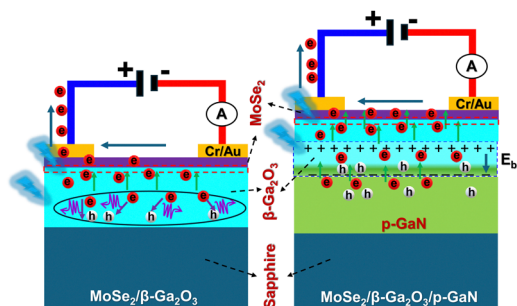
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A superhydrophobic and heat-resistant PAN/PSU/PTFE composite nanofiber membrane for high-efficiency PM_{1.0} and PM_{2.5} filtration

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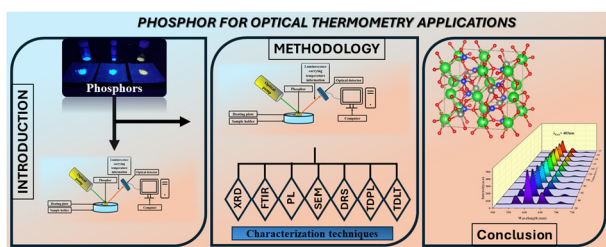
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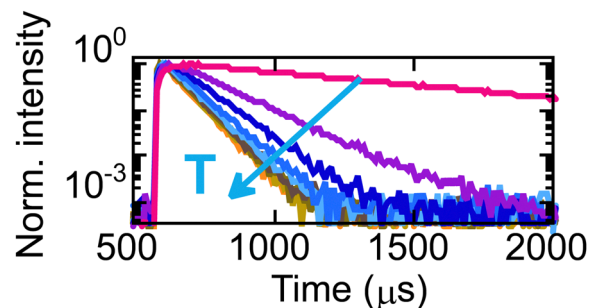
Tejas, A. Princy, S. Masilla Moses Kennedy, Vikash Mishra, M. I. Sayyed, Taha A. Hanafy and Sudha D. Kamath*



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

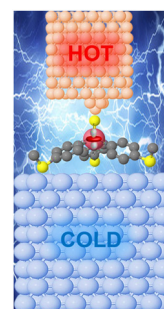
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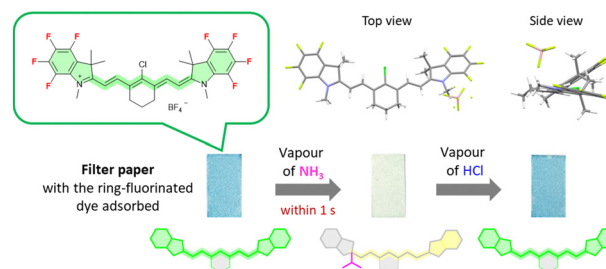
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A ring-fluorinated heptamethine cyanine dye: synthesis, photophysical properties, and vapo-chromic properties in response to ammonia

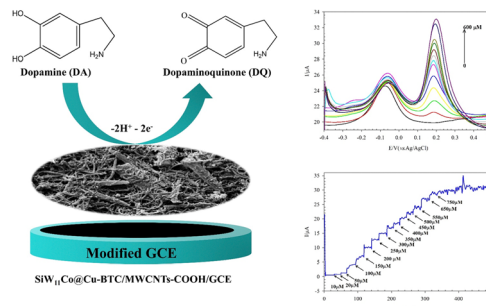
Shouhei Ajioka, Yuto Hagiyama, Yuki Uehashi, Tomohiro Agou, Yasuhiro Kubota, Toshiyasu Inuzuka and Kazumasa Funabiki*



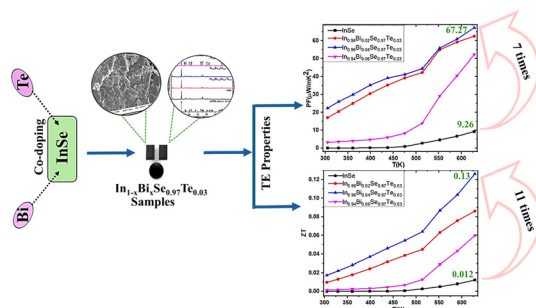
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A novel synthesis of inorganic–organic nanohybrid based on SiW₁₁Co@Cu–BTC/MWCNTs–COOH for electrocatalytic oxidation of dopamine

Zahra Sadeghi and Somayeh Dianat*



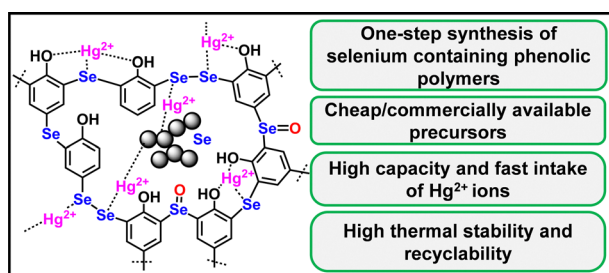
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Bismuth and tellurium co-doping: a route to improve thermoelectric efficiency in InSe polycrystals

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

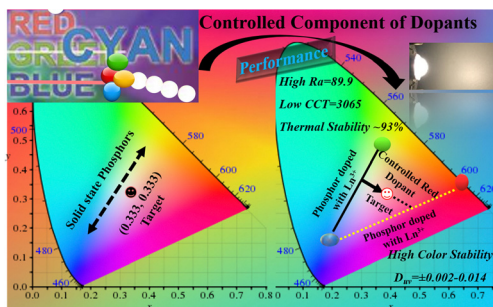
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Arylselanyl motifs in hierarchically structured mesoporous phenolic polymers: efficient adsorption sites for Hg²⁺ ions

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*

