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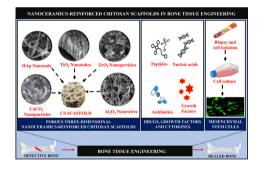
See Chitra Gurnani et al., pp. 4119-4128. Image reproduced by permission of Sayali Shrishail Harke and Chitra Gurnani from Mater. Adv... 2023, 4, 4119.

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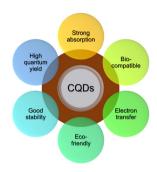


REVIEWS

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A review on plant derived carbon quantum dots for bio-imaging

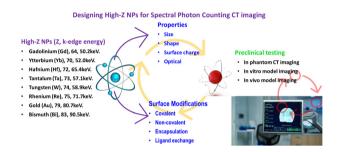
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High atomic number nanoparticles to enhance spectral CT imaging aspects

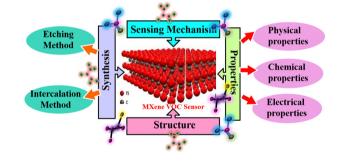
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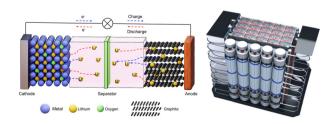
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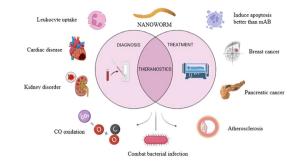
Research progress in liquid cooling technologies to enhance the thermal management of LIBs

Rui Zhou, Yumei Chen, Jiawen Zhang and Pan Guo*



REVIEWS

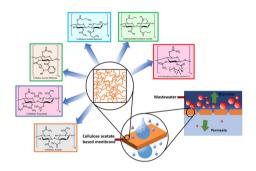
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Advances of nanoworms in diagnosis, treatment, and theranostics

Kadambari Borse and Pravin Shende*

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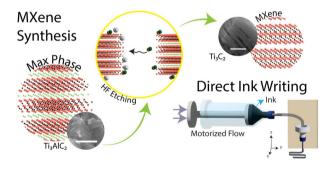


Cellulose acetate-based membrane for wastewater treatment-A state-of-the-art review

Md. Didarul Islam, Foyez Jalal Uddin, Taslim Ur Rashid* and Mohammad Shahruzzaman*

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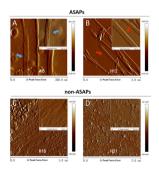


3D printing aqueous $Ti_3C_2T_x$ inks for MXene-based energy devices

Mofetoluwa Fagade, Dhanush Patil, Sri Vaishnavi Thummalapalli, Sayli Jambhulkar, Dharneedar Ravichandran, Arunachala M. Kannan and Kenan Song*

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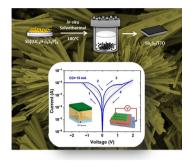
The morphology and structural features of self-aggregating hexapeptides with antibiofilm formation activity

Dongru Chen, Tingyu Wang, Yiyi Huang, Yucong Chen, Huancai Lin* and Liping Wu*

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Solution-based in situ deposition of Sb₂S₃ from a single source precursor for resistive random-access memory devices

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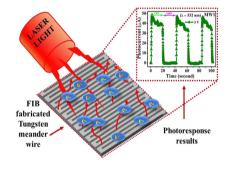
Vanishing tails and a resilient mesophase: columnar liquid crystals in the limit of short tails

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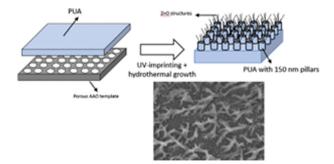
Abhishek Kumar, Alka Sharma, Animesh Pandey, M. P. Saravanan and Sudhir Husale*



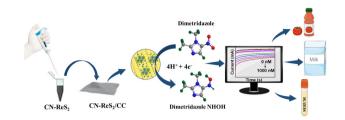
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Antibacterial surface based on hierarchical polyurethane acrylate/zinc oxide structures

Sruthi Venugopal Oopath, Akesh Babu Kakarla, Ing Kong, Thanh Tien Nguyen, Vi Khanh Truong* and Avinash Baji*

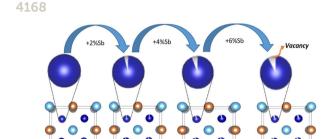


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Unveiling the capability of graphitic carbon nitride-rhenium disulfide nanocomposite as an electrochemical sensing platform for the detection of dimetridazole from human serum samples

M. Mufeeda, Pushpalatha V. Vaishag, Menon Ankitha and P. Abdul Rasheed*



b) x=0.02

Transport phenomena of TiCoSb: defect induced modification in the structure and density of states

- S. Mahakal, Diptasikha Das, Pintu Singha, Aritra Banerjee,
- S. C. Das, Santanu K. Maiti, S. Assa Aravindh and K. Malik*

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a) x=0.00



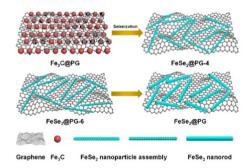
c) x=0.04

d) x=0.06

Process dependent interface strengthening, de-icing and EMI shielding performance in PEEK/CF laminates

Rishi Raj, Sampath Parasuram, S. Kumar and Suryasarathi Bose*

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Confined oriented growth of FeSe₂ on a porous graphene film as a binder-free anode for high-rate lithium-ion batteries

Xiaoting Zhang, Jiaxiu Diao, Jinghao Qiao, Yuhui Wen, Hongkun Zhang* and Rui Wang*

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Investigation of the cycling stability and energy storage properties of zinc titanate (ZnTiO₃) perovskite material for zinc-air batteries

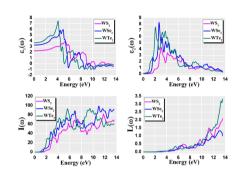
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A first-principles study of the electronic, optical, and transport properties of novel transition-metal dichalcogenides

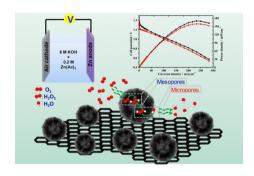
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Dendritic hollow nitrogen-doped carbon nanospheres for oxygen reduction at primary zinc-air batteries

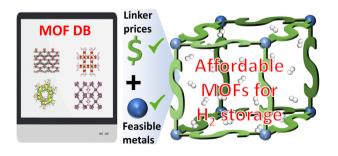
J. Anjana, Anook Nazer Eledath and Azhagumuthu Muthukrishnan*



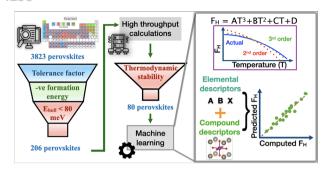
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A database to select affordable MOFs for volumetric hydrogen cryoadsorption considering the cost of their linkers

Jose A. Villajos,* Martin Bienert, Nikita Gugin, Franziska Emmerling and Michael Maiwald



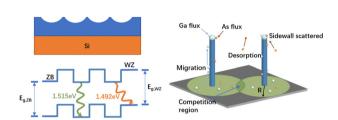
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Machine learning the vibrational free energy of perovskites

Krishnaraj Kundavu, Suman Mondal and Amrita Bhattacharya*

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Crystal phase control in self-catalyzed GaAs nanowires grown on pre-etched Si substrates

Shan Wang, Haolin Li, Jilong Tang, Yubin Kang, Xiaohua Wang,* Rui Chen* and Zhipeng Wei*