

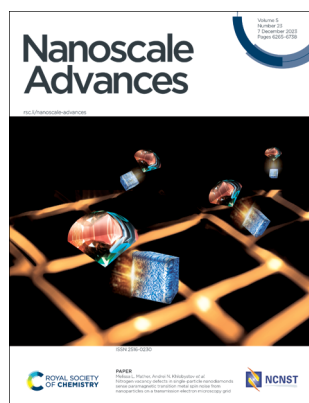
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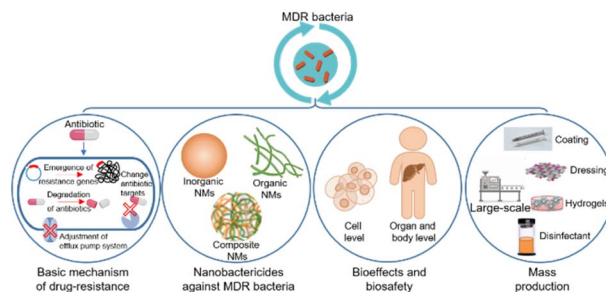
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See Melissa L. Mather, Andrei N. Khlobystov *et al.*, pp. 6423–6434. Image reproduced by permission of Melissa Mather from *Nanoscale Adv.*, 2023, 5, 6423.

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Recent advances in nanoantibiotics against multidrug-resistant bacteria

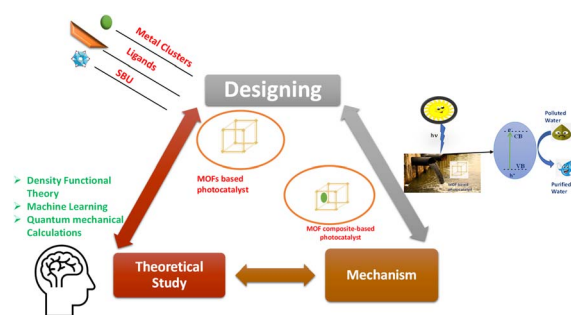
Mulan Li, Ying Liu, Youhuan Gong, Xiaojie Yan, Le Wang,* Wenfu Zheng,* Hao Ai* and Yuliang Zhao*



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A review of metal–organic framework (MOF) materials as an effective photocatalyst for degradation of organic pollutants

M. Shahnawaz Khan, Yixiang Li, Dong-Sheng Li, Jianbei Qiu, Xuhui Xu and Hui Ying Yang*



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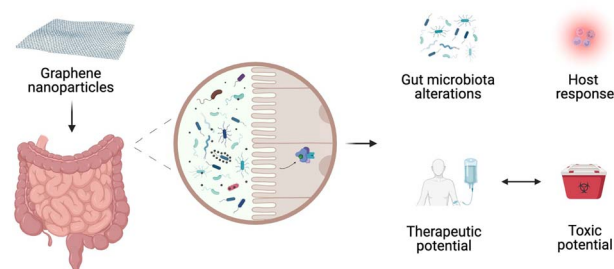


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The gut microbiome meets nanomaterials: exposure and interplay with graphene nanoparticles

Olga Wojciechowska, Adele Costabile and Matgorzata Kujawska*

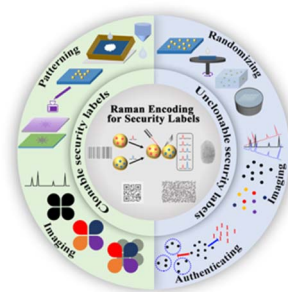


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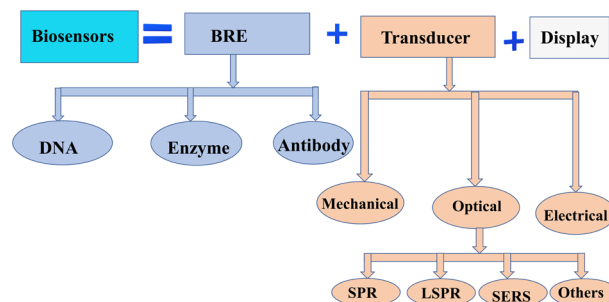
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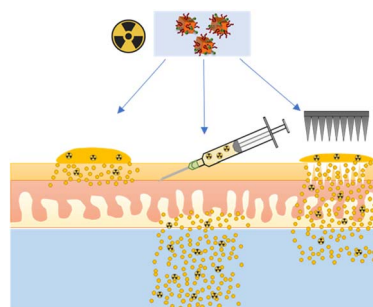


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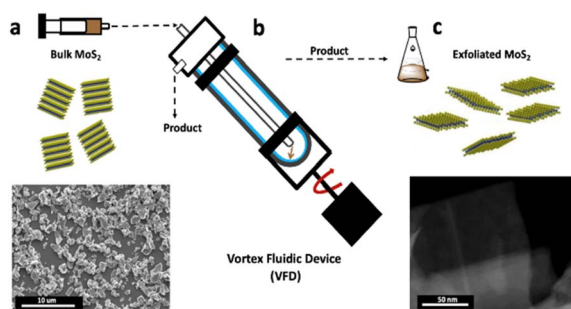
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Ex vivo transdermal delivery of ³H-labelled atovaquone solid drug nanoparticles: a comparison of topical, intradermal injection and microneedle assisted administration

Sam Morris, Mark Long, Alison Savage, Andrew Owen, Steve Rannard and Helen Caulbeck*



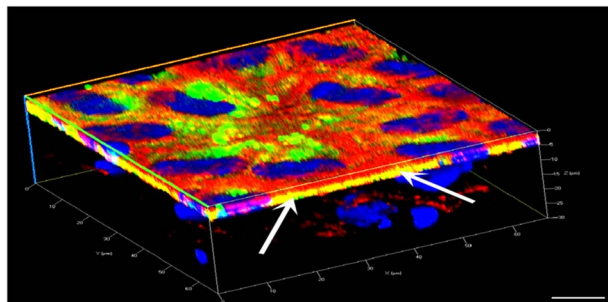
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High conversion continuous flow exfoliation of 2D MoS₂

Thaar M. D. Alharbi and Colin L. Raston*

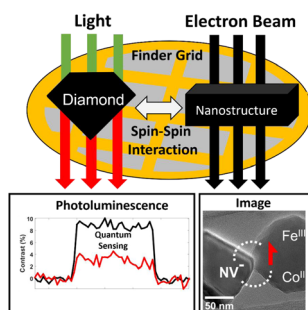
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Fusogenic liposome-coated nanoparticles for rapid internalization into donor corneal endothelial tissue to enable prophylaxis before transplantation

Thanuja M. Y., Suraksha S. Tellakula, Samarth V. Suryavanshi, Keerthana G. S., Chandan Vasudev S. and Sudhir H. Ranganath*

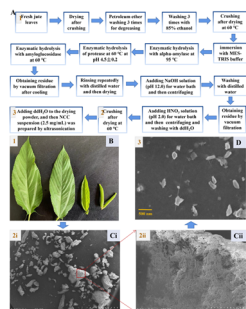
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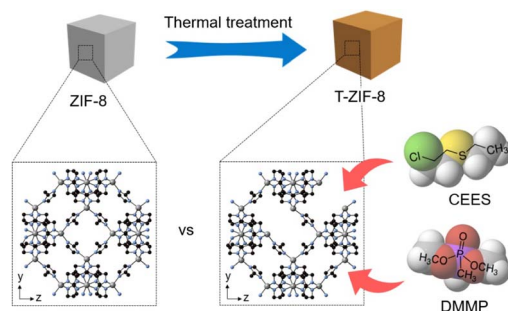
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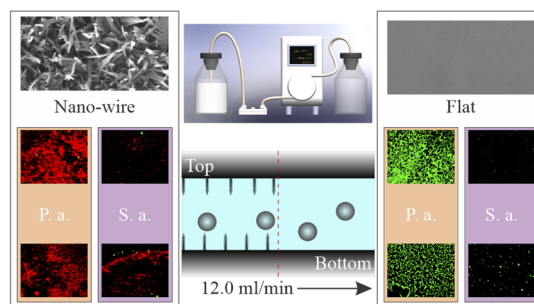
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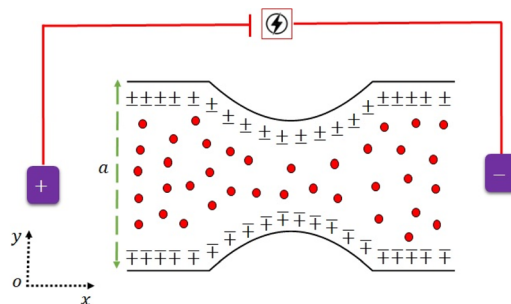
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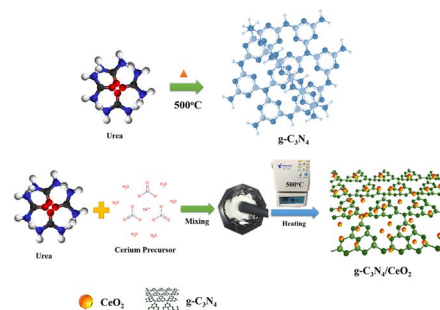
Mubbashar Nazeer, M. Ijaz Khan,* Sherzod Abdullaev, Fuad A. Awwad and Emad A. A. Ismail



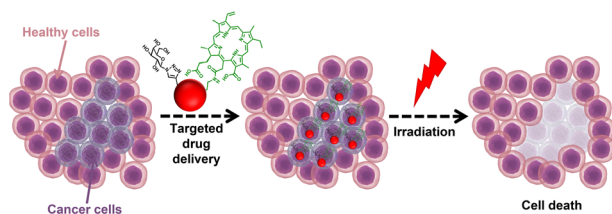
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Ramaraghavulu Rajavaram, S. V. Prabhakar Vattikuti,* Jaesool Shim,* Xinghui Liu, Nguyen To Hoai* and Nam Nguyen Dang



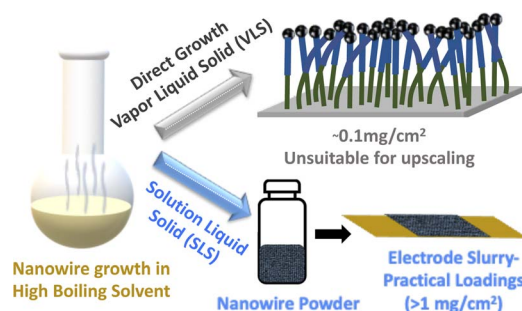
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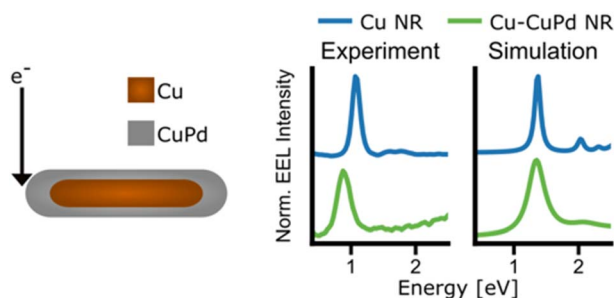
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Solution processable Si/Ge heterostructure NWs enabling anode mass reduction for practical full-cell Li-ion batteries

Temilade Esther Adegoke, Syed Abdul Ahad, Ursel Bangert, Hugh Geaney* and Kevin M. Ryan*

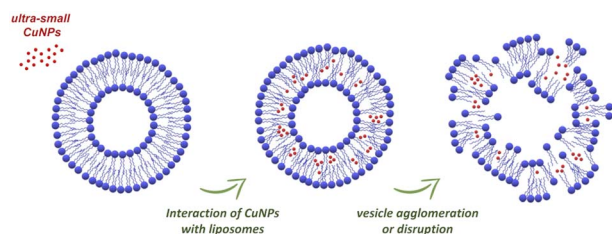
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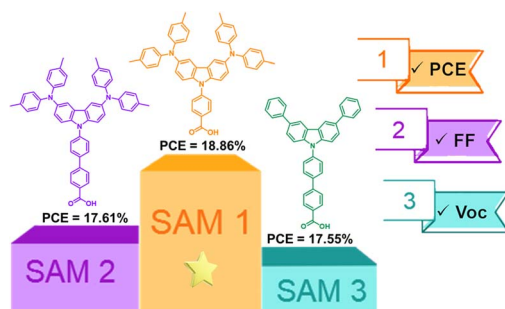
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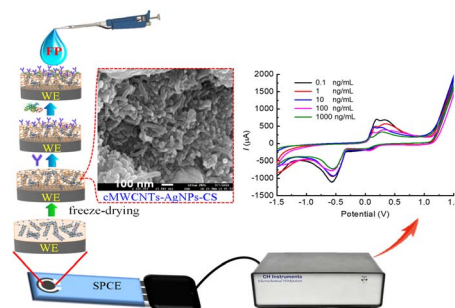
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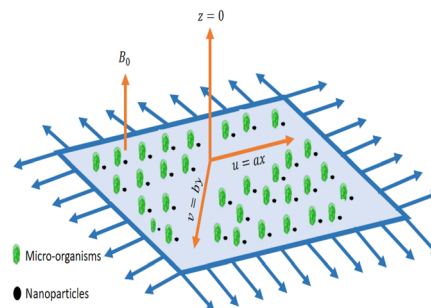
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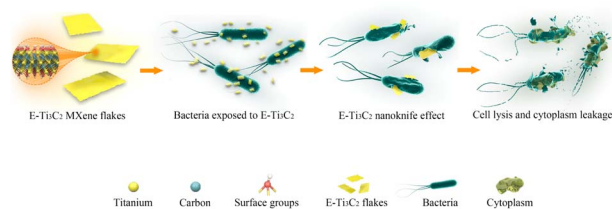
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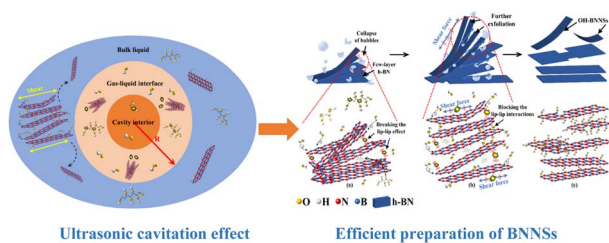
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Large-scale production of MXenes as nanoknives for antibacterial application

Yuchen Liu, Xing Chen, Jiazhi Sun, Nuo Xu, Qi Tang, Jie Ren, Cheng Chen,* Weiwei Lei,* Chao Zhang and Dan Liu*



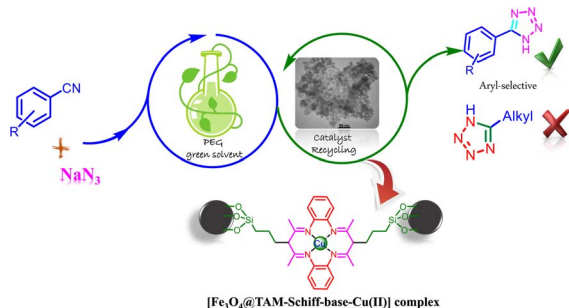
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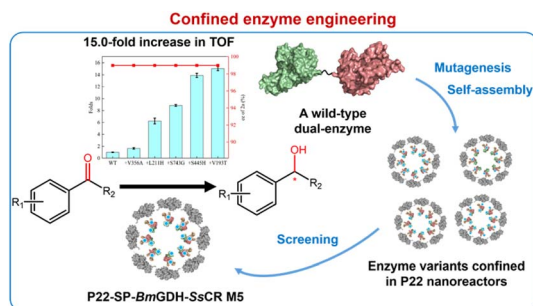
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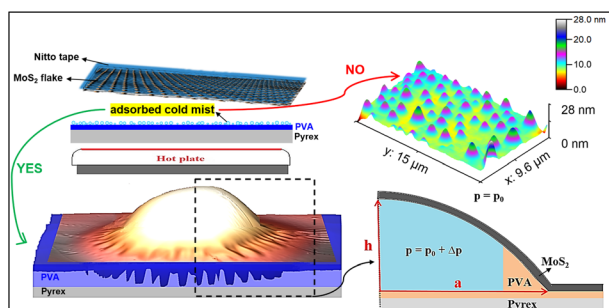
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Taotao Feng, Jiaxu Liu, Xiaoyan Zhang, Daidi Fan and Yunpeng Bai*

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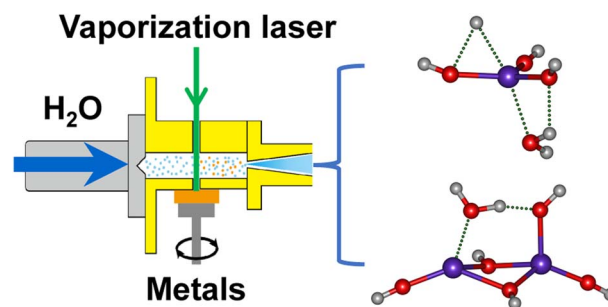
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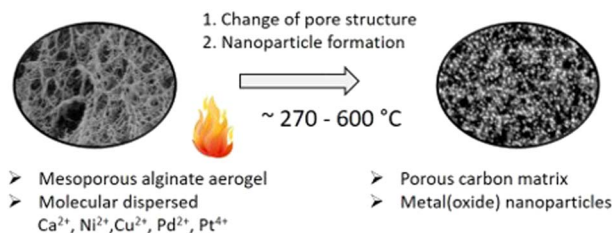
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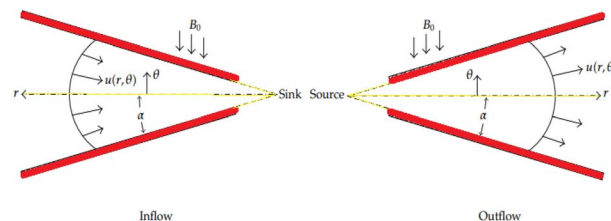
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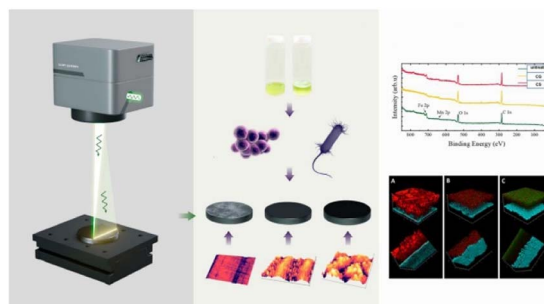
Shilpa B., Pudhari Srilatha, Umair Khan,* Naveen Kumar R., Samia Ben Ahmed and Raman Kumar



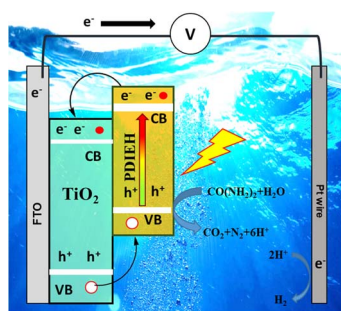
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Femtosecond laser modified metal surfaces alter biofilm architecture and reduce bacterial biofilm formation

Iaroslav Gnilitzkiy,* Svitlana Rymar, Olga Iungin, Olexiy Vyshnevskyy, Pietro Parisse, Geert Potters, Anatoly V. Zayats* and Olena Moshynets*



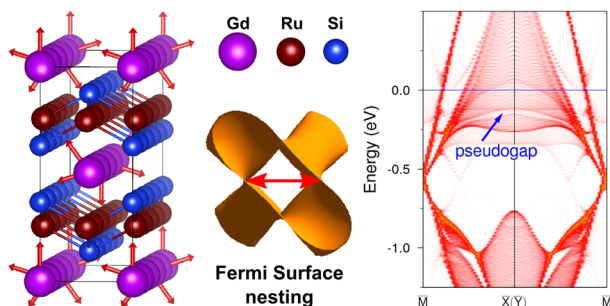
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A TiO₂ nanorod and perylene diimide based inorganic/organic nanoheterostructure photoanode for photoelectrochemical urea oxidation

Jasmine Bezboruah, Devendra Mayurdhwaj Sanke, Ajay Vinayakrao Munde, Palak Trilochand Bhattad, Himadri Shekhar Karmakar and Sanjio S. Zade*

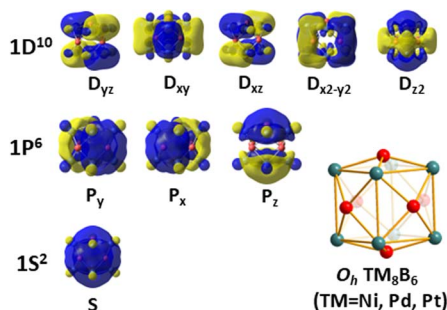
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Insight into the electronic structure of the centrosymmetric skyrmion magnet GdRu₂Si₂

S. V. Eremeev,* D. Glazkova, G. Poelchen, A. Kraiker, K. Ali, A. V. Tarasov, S. Schulz, K. Kliemt, E. V. Chulkov, V. S. Stolyarov, A. Ernst, C. Krellner, D. Yu. Usachov and D. V. Vyalikh*

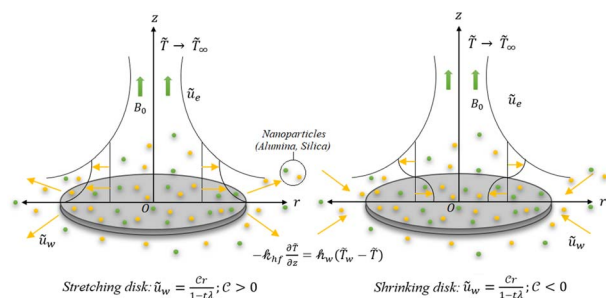
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Perfect cubic metallo-borosphenes TM₈B₆ (TM = Ni, Pd, Pt) as superatoms following the 18-electron rule

Mei-Zhen Ao, Yuan-Yuan Ma, Yue-Wen Mu* and Si-Dian Li*

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Exploring dual solutions and thermal conductivity in hybrid nanofluids: a comparative study of Xue and Hamilton–Crosser models

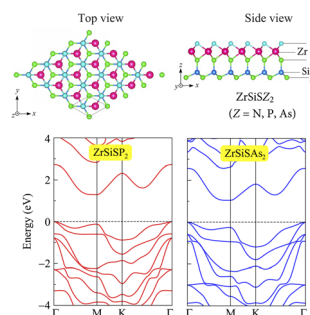
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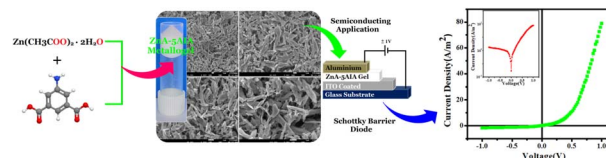
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A 5-aminoisophthalic acid low molecular weight gelator based novel semiconducting supramolecular Zn(II)-metallogel: unlocking an efficient Schottky barrier diode for microelectronics

Subhendu Dhibar,* Baishakhi Pal, Kripasindhu Karmakar, Sanjay Roy, Sk Abdul Hafiz, Arpita Roy, Subham Bhattacharjee, Soumya Jyoti Ray, Partha Pratim Ray* and Bidyut Saha*



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Assessing the impact of ultra-thin diamond nanothreads on the glass transition temperature of a bituminous binder

Yingying Pang, Liangfeng Sun, Haifei Zhan,* Xianglong Zheng, Jiandong Zhang, Chengyou Bian and Chaofeng Lü*

