

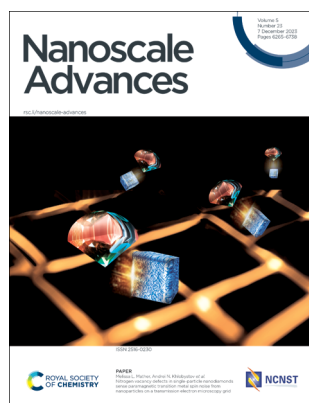
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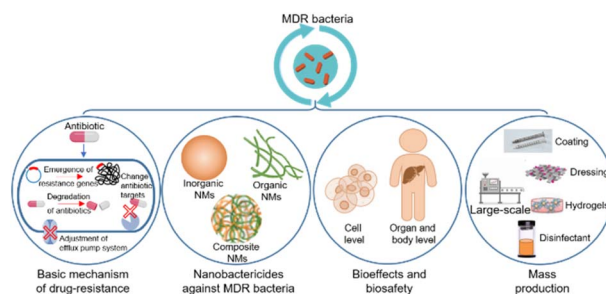
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See Melissa L. Mather, Andrei N. Khlobystov *et al.*, pp. 6423–6434. Image reproduced by permission of Melissa Mather from *Nanoscale Adv.*, 2023, 5, 6423.

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Recent advances in nanoantibiotics against multidrug-resistant bacteria

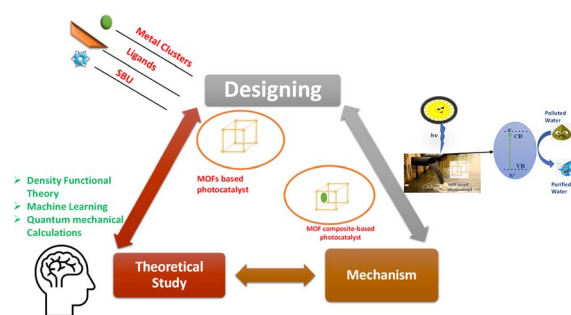
Mulan Li, Ying Liu, Youhuan Gong, Xiaojie Yan, Le Wang,* Wenfu Zheng,* Hao Ai* and Yuliang Zhao*



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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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Nanoscale Advances (electronic: ISSN 2516-0230) is published 24 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WE.

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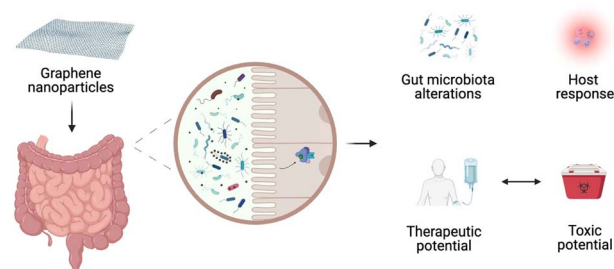


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The gut microbiome meets nanomaterials: exposure and interplay with graphene nanoparticles

Olga Wojciechowska, Adele Costabile and Matgorzata Kujawska*

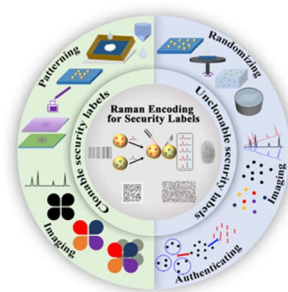


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Raman encoding for security labels: a review

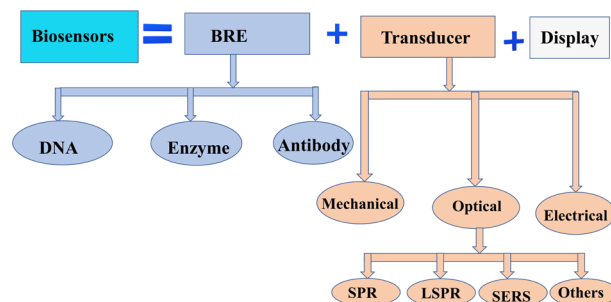
Dong Yu, Wei Zhu* and Ai-Guo Shen*



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Alemayehu Getahun Kumela,* Abebe Belay Gemta,* Alemu Kebede Hordofa, Ruth Birhanu, Habtamu Dagnaw Mekonnen, Umer Sherefedin and Kinfe Weldegiorgis

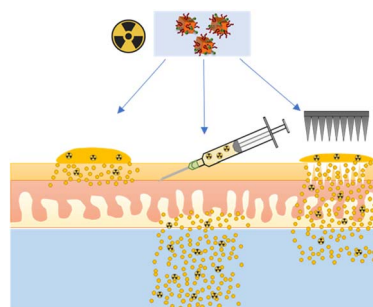


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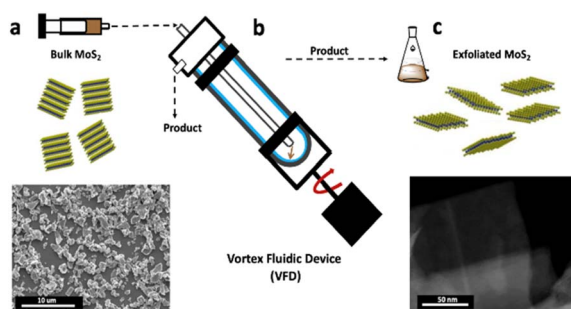
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Ex vivo transdermal delivery of ³H-labelled atovaquone solid drug nanoparticles: a comparison of topical, intradermal injection and microneedle assisted administration

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



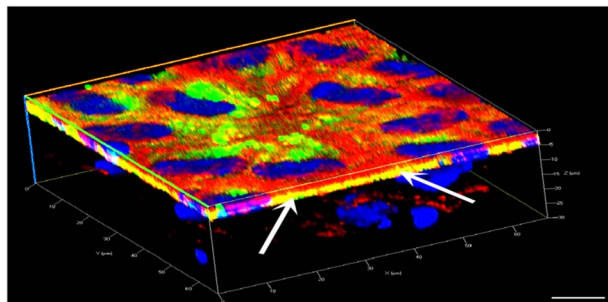
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High conversion continuous flow exfoliation of 2D MoS₂

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

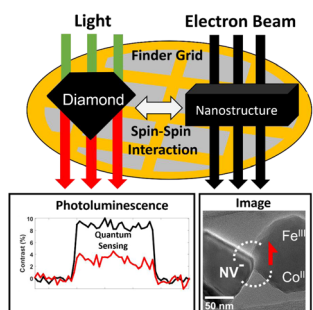
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Fusogenic liposome-coated nanoparticles for rapid internalization into donor corneal endothelial tissue to enable prophylaxis before transplantation

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

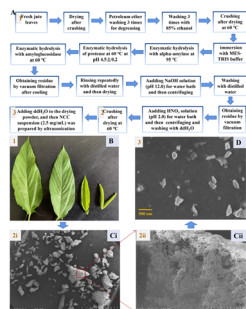
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Dual roles of nanocrystalline cellulose extracted from jute (*Corchorus olitorius* L.) leaves in resisting antibiotics and protecting probiotics

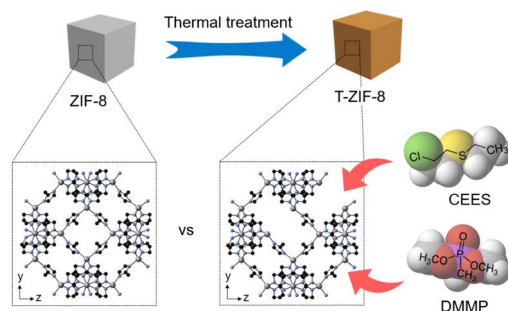
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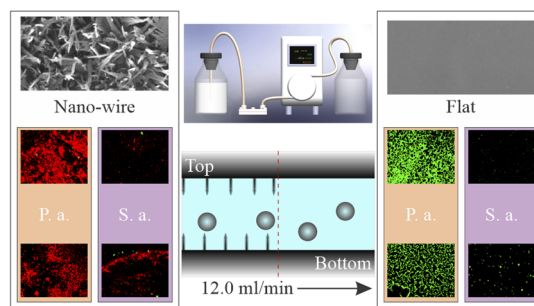
Sojin Oh, Sujeong Lee, Gihyun Lee and Moonhyun Oh*



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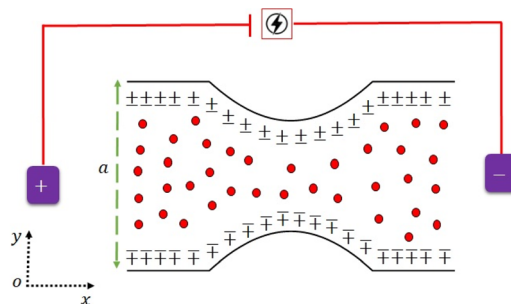
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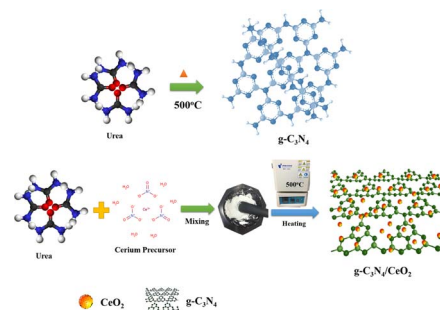
Mubbashar Nazeer, M. Ijaz Khan,* Sherzod Abdullaev, Fuad A. Awwad and Emad A. A. Ismail



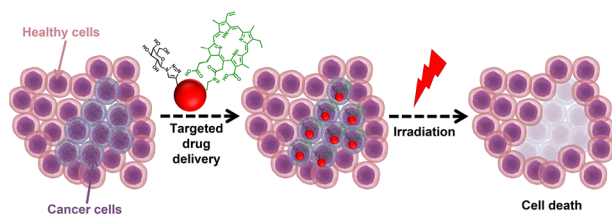
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Ramaraghavulu Rajavaram, S. V. Prabhakar Vattikuti,* Jaesool Shim,* Xinghui Liu, Nguyen To Hoai* and Nam Nguyen Dang



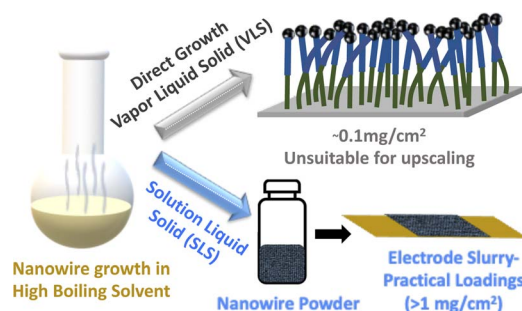
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Targeted photodynamic therapy for breast cancer: the potential of glyconanoparticles

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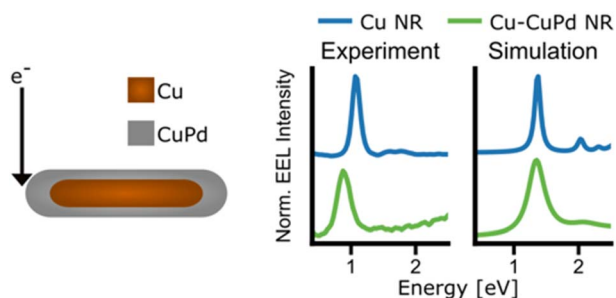
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Solution processable Si/Ge heterostructure NWs enabling anode mass reduction for practical full-cell Li-ion batteries

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

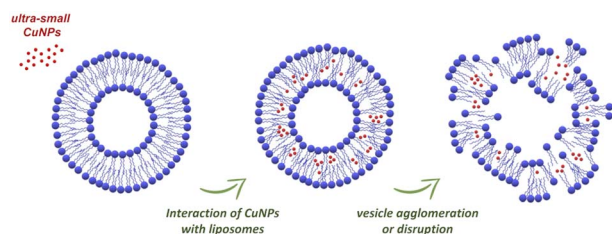
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Bimetallic copper palladium nanorods: plasmonic properties and palladium content effects

Andrey Ten, Claire A. West, Soojin Jeong, Elizabeth R. Hopper, Yi Wang, Baixu Zhu, Quentin M. Ramasse, Xingchen Ye* and Emilie Ringe*

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Analytical probing of membranotropic effects of antimicrobial copper nanoparticles on lipid vesicles as membrane models

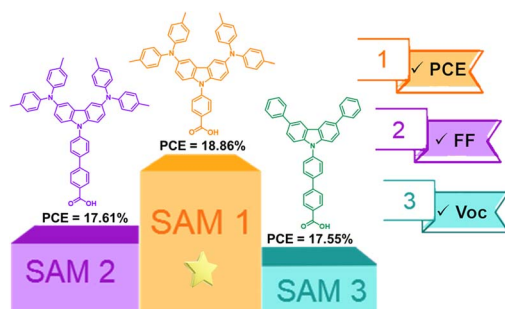
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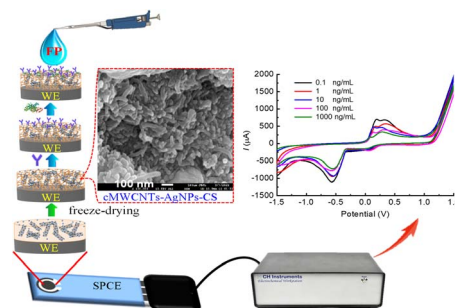
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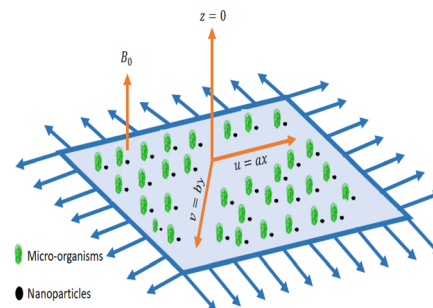
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Interaction of gyrotactic moment of microorganisms and nanoparticles for magnetized and chemically reactive shear-thinning fluid with stratification phenomenon

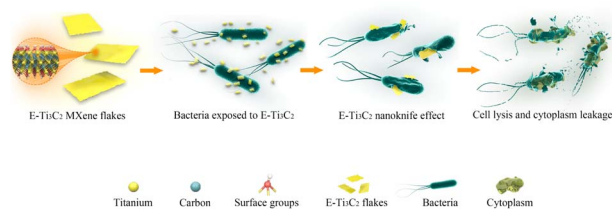
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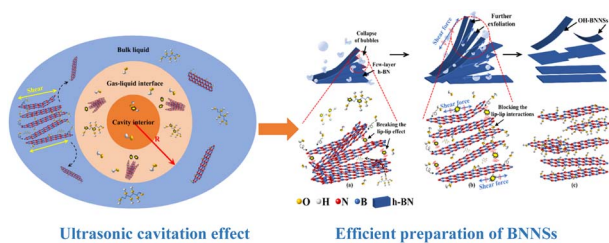
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Large-scale production of MXenes as nanoknives for antibacterial application

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



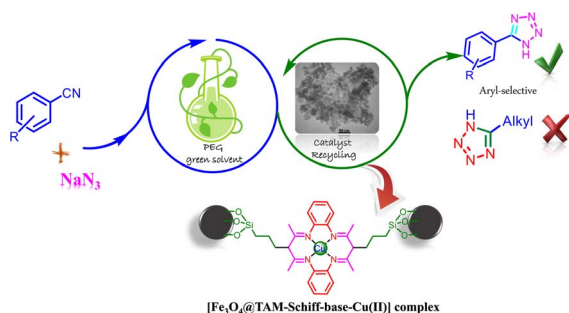
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Preparation of boron nitride nanosheets by glucose-assisted ultrasonic cavitation exfoliation

Lian Zhou, Bo Zhang, Fuzhu Li,* Ying Yan, Yun Wang and Ruitao Li

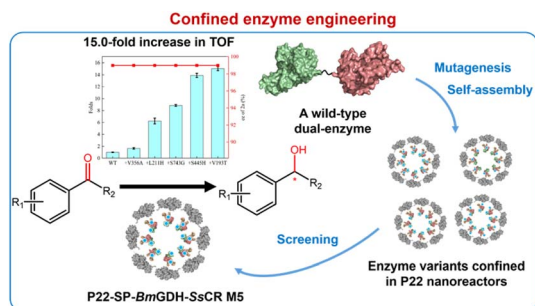
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Nanomagnetic tetraaza (N₄ donor) macrocyclic Schiff base complex of copper(II): synthesis, characterizations, and its catalytic application in Click reactions

Masomeh Norouzi,* Nasim Noormoradi and Masoud Mohammadi

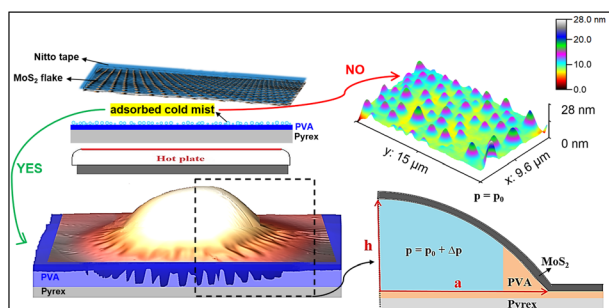
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Taotao Feng, Jiaxu Liu, Xiaoyan Zhang, Daidi Fan and Yunpeng Bai*

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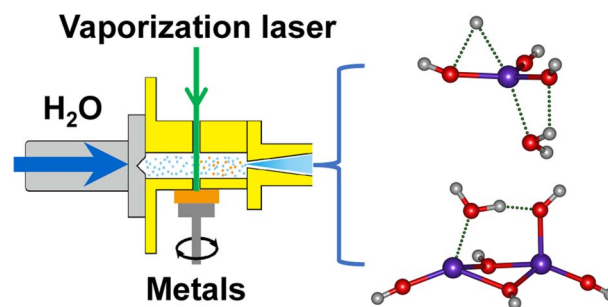
Mukesh Pandey, Rajeev Ahuja* and Rakesh Kumar*



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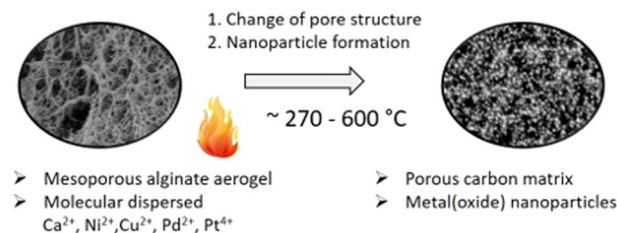
Tiantong Wang, Shangdong Li, Wenhui Yan, Shuai Jiang, Hua Xie, Gang Li* and Ling Jiang*



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A greener approach for synthesizing metal-decorated carbogels from alginate for emerging technologies

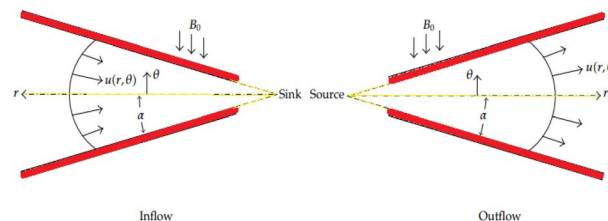
Juan I. del Río, Laura Juhász, József Kalmár, Zoltán Erdélyi, María D. Bermejo, Ángel Martín, Irina Smirnova, Pavel Gurikov and Baldur Schroeter*



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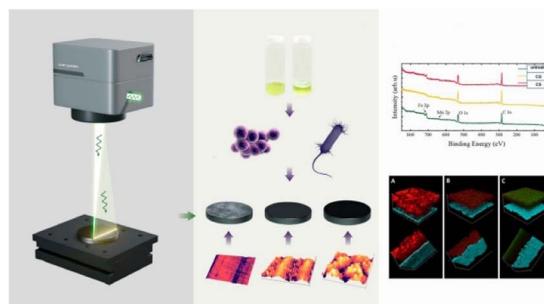
Shilpa B., Pudhari Srilatha, Umair Khan,* Naveen Kumar R., Samia Ben Ahmed and Raman Kumar



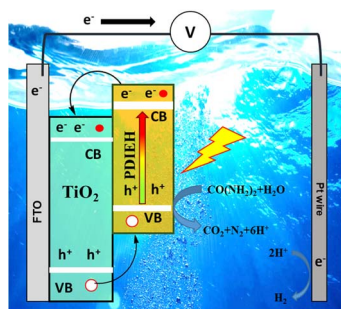
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Femtosecond laser modified metal surfaces alter biofilm architecture and reduce bacterial biofilm formation

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



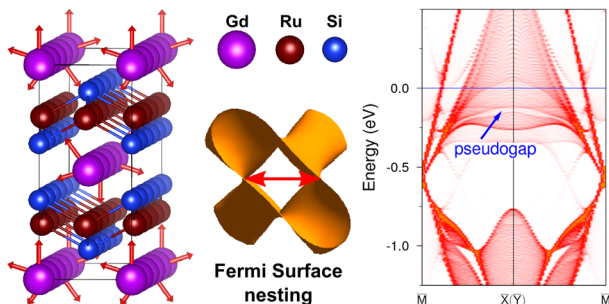
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A TiO₂ nanorod and perylene diimide based inorganic/organic nanoheterostructure photoanode for photoelectrochemical urea oxidation

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

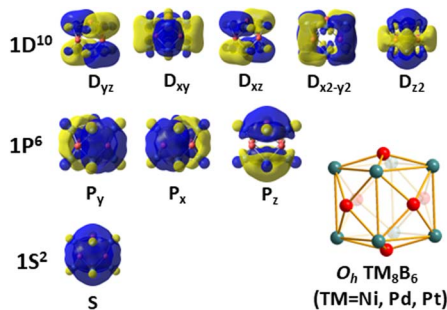
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Insight into the electronic structure of the centrosymmetric skyrmion magnet GdRu₂Si₂

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*

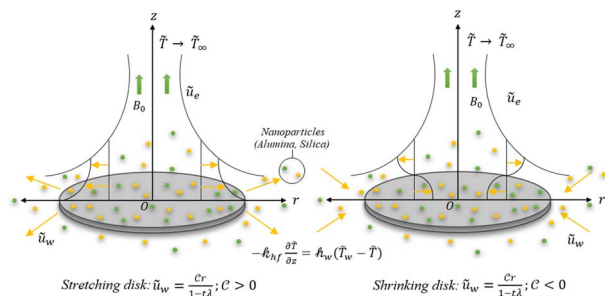
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Perfect cubic metallo-borosphenes TM₈B₆ (TM = Ni, Pd, Pt) as superatoms following the 18-electron rule

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

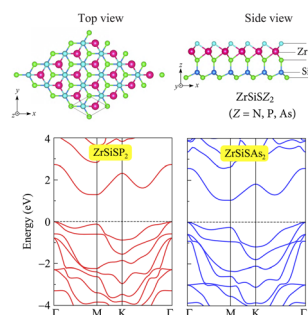
Mahnour Sarfraz, Muhammad Yasir* and Masood Khan



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Crystal lattice and electronic and transport properties of Janus ZrSiSZ₂ (Z = N, P, As) monolayers by first-principles investigations

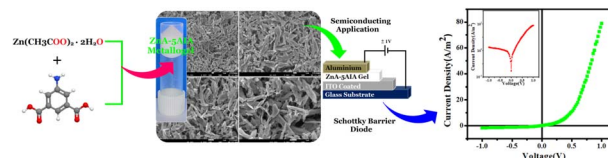
Nguyen P. Q. Anh, Nguyen T. Hiep, D. V. Lu, Cuong Q. Nguyen, Nguyen N. Hieu and Vo T. T. Vi*



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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*

