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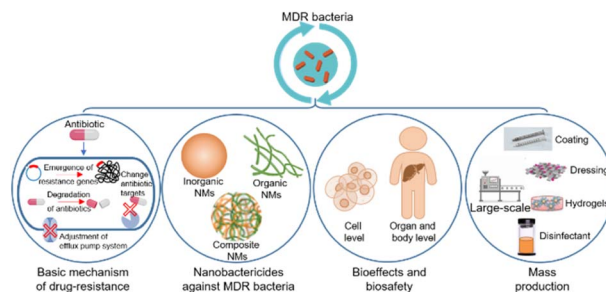
See Melissa L. Mather, Andrei N. Khlobystov *et al.*, pp. 6423–6434. Image reproduced by permission of Melissa Mather from *Nanoscale Adv.*, 2023, 5, 6423.

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Recent advances in nanoantibiotics against multidrug-resistant bacteria

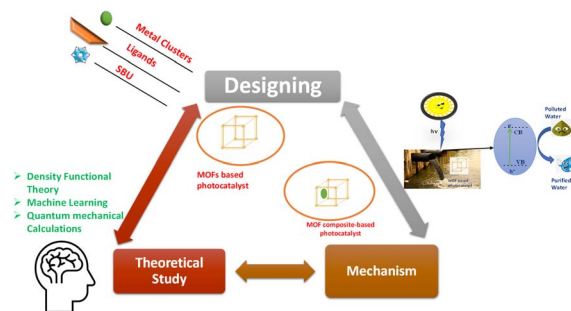
Mulan Li, Ying Liu, Youhuan Gong, Xiaojie Yan, Le Wang,* Wenfu Zheng,* Hao Ai* and Yuliang Zhao*



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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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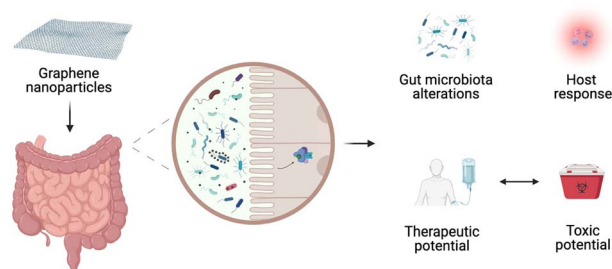


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The gut microbiome meets nanomaterials: exposure and interplay with graphene nanoparticles

Olga Wojciechowska, Adele Costabile and Matgorzata Kujawska*

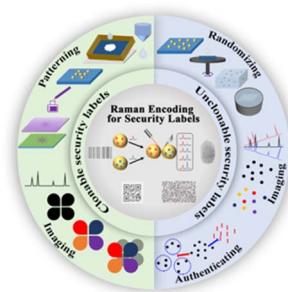


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Raman encoding for security labels: a review

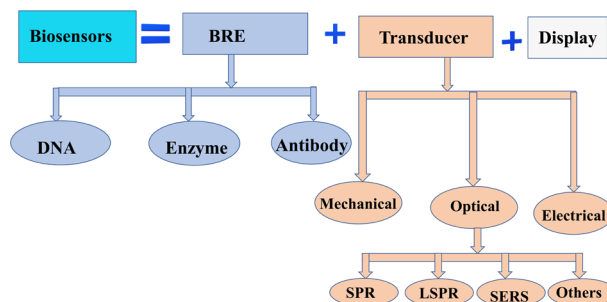
Dong Yu, Wei Zhu* and Ai-Guo Shen*



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

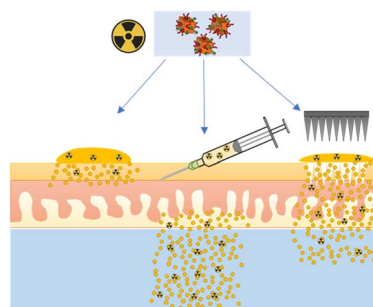


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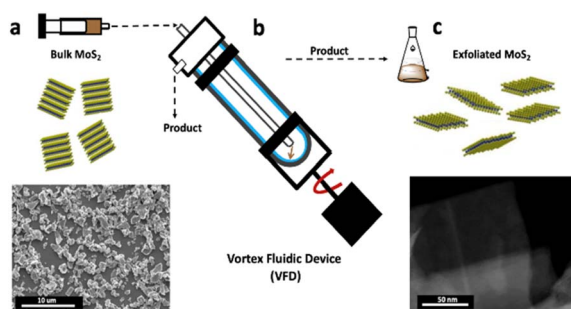
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Ex vivo transdermal delivery of ³H-labelled atovaquone solid drug nanoparticles: a comparison of topical, intradermal injection and microneedle assisted administration

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



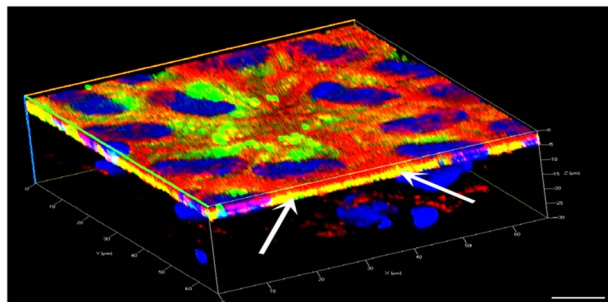
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High conversion continuous flow exfoliation of 2D MoS₂

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

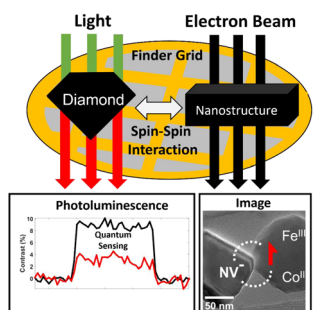
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Fusogenic liposome-coated nanoparticles for rapid internalization into donor corneal endothelial tissue to enable prophylaxis before transplantation

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

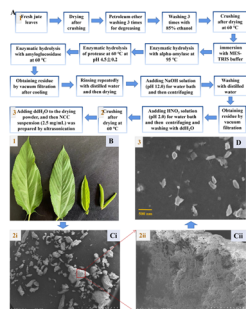
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Nitrogen vacancy defects in single-particle nanodiamonds sense paramagnetic transition metal spin noise from nanoparticles on a transmission electron microscopy grid

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

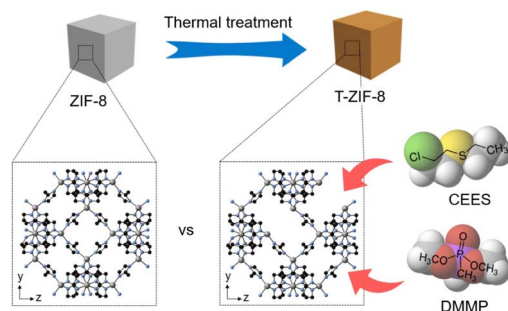
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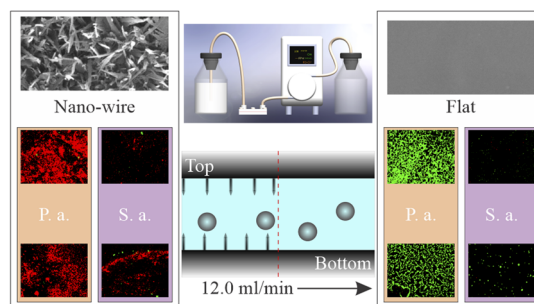
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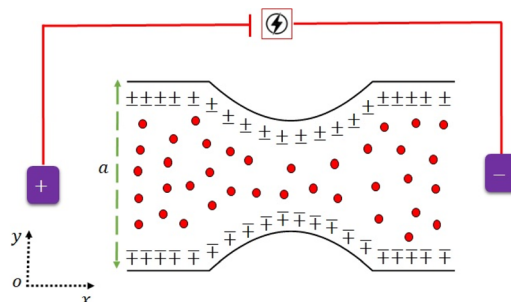
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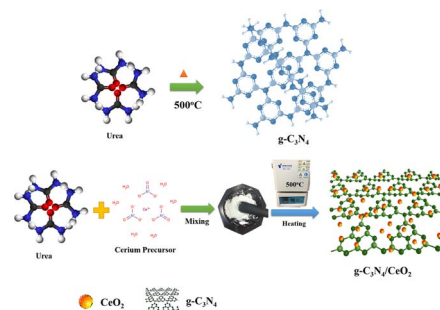
Mubbashar Nazeer, M. Ijaz Khan,* Sherzod Abdullaev, Fuad A. Awwad and Emad A. A. Ismail



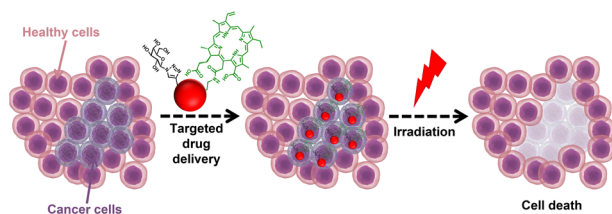
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Enriched photocatalytic and photoelectrochemical activities of a 2D/0D g-C₃N₄/CeO₂ nanostructure

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



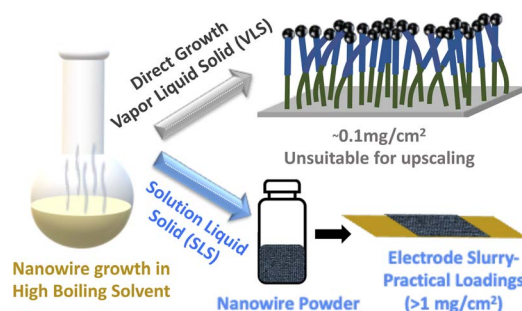
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Targeted photodynamic therapy for breast cancer: the potential of glyconanoparticles

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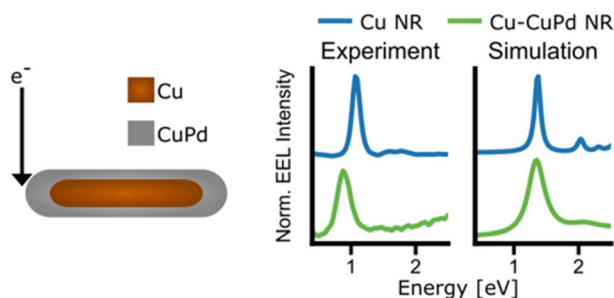
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Solution processable Si/Ge heterostructure NWs enabling anode mass reduction for practical full-cell Li-ion batteries

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

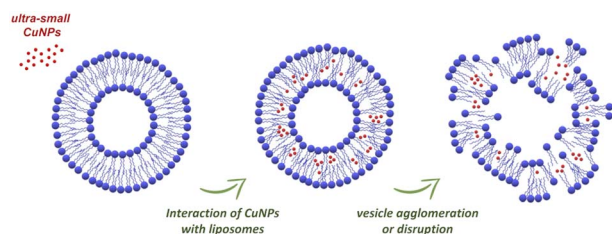
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Bimetallic copper palladium nanorods: plasmonic properties and palladium content effects

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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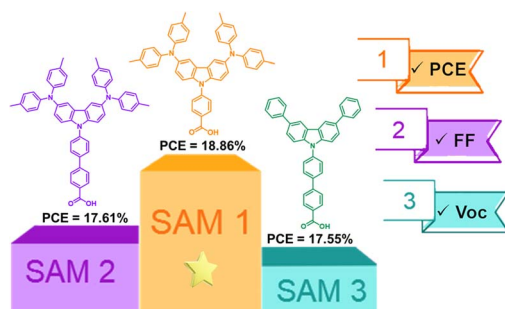
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Influence of the carbazole moiety in self-assembling molecules as selective contacts in perovskite solar cells: interfacial charge transfer kinetics and solar-to-energy efficiency effects

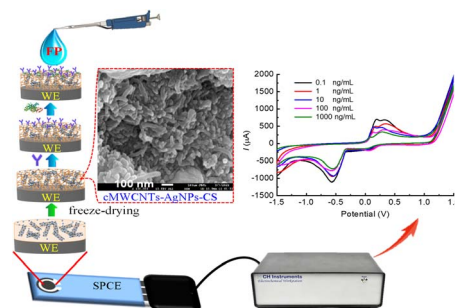
Dora A. González, Carlos E. Puerto Galvis, Wenhui Li, Maria Méndez, Ece Aktas, Eugenia Martínez-Ferrero and Emilio Palomares*



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An electrochemical immunosensor based on a carboxylated multiwalled carbon nanotube-silver nanoparticle-chitosan functional layer for the detection of fipronil

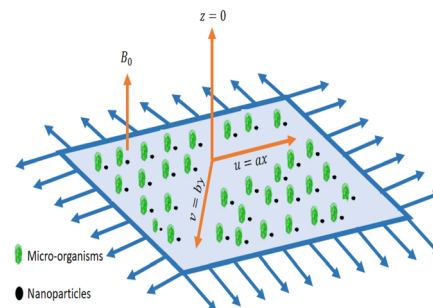
Wen-Chien Huang,* You-Ning Hsiung and Chia-Ling Li



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

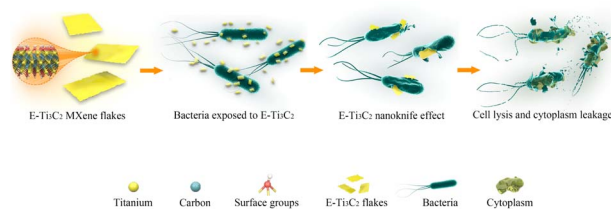
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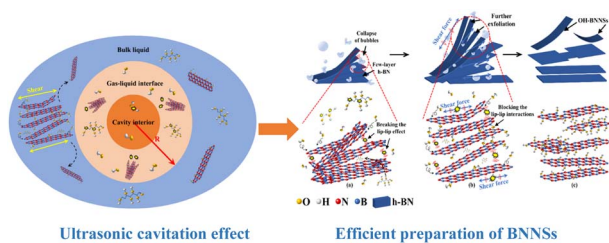
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Large-scale production of MXenes as nanoknives for antibacterial application

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



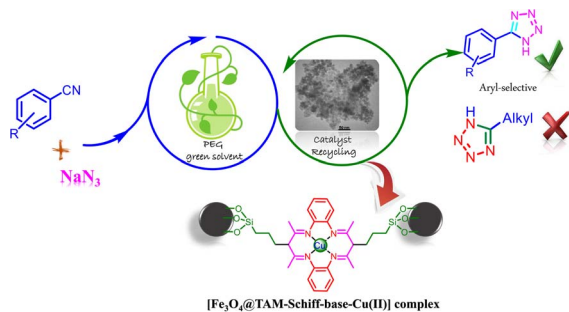
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Lian Zhou, Bo Zhang, Fuzhu Li,* Ying Yan, Yun Wang and Ruitao Li

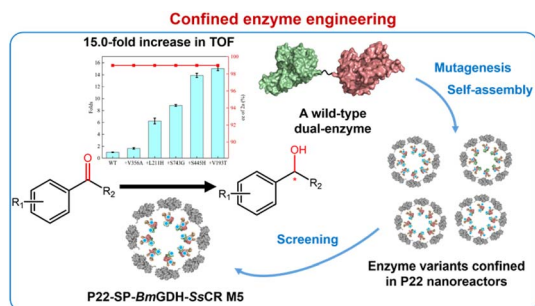
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Nanomagnetic tetraaza (N_4 donor) macrocyclic Schiff base complex of copper(II): synthesis, characterizations, and its catalytic application in Click reactions

Masomeh Norouzi,* Nasim Noormoradi and Masoud Mohammadi

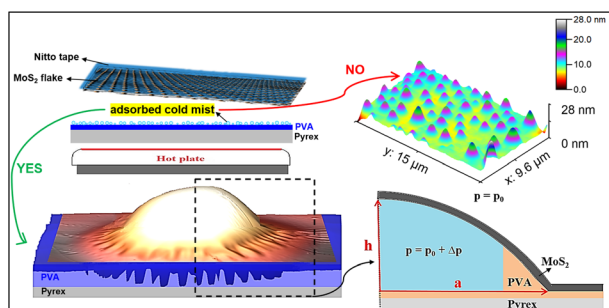
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Taotao Feng, Jiaxu Liu, Xiaoyan Zhang, Daidi Fan and Yunpeng Bai*

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Viscous fingering instabilities in spontaneously formed blisters of MoS_2 multilayers

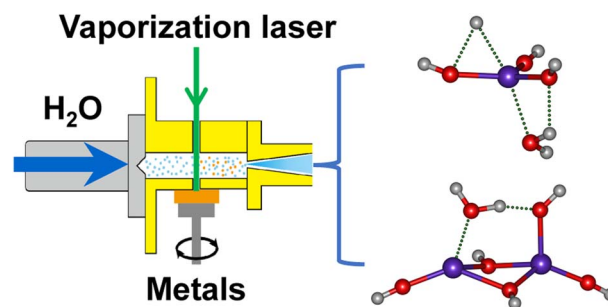
Mukesh Pandey, Rajeev Ahuja* and Rakesh Kumar*



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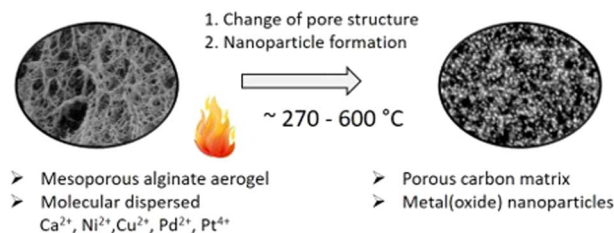
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A greener approach for synthesizing metal-decorated carbogels from alginate for emerging technologies

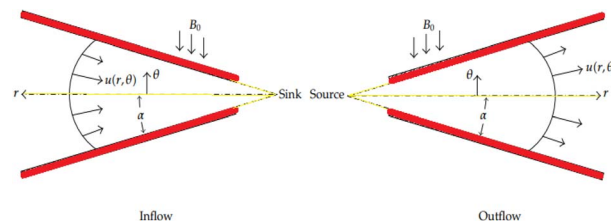
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Numerical study of thermal and solutal advancements in ZnO–SAE50 nanolubricant flow past a convergent/divergent channel with the effects of thermophoretic particle deposition

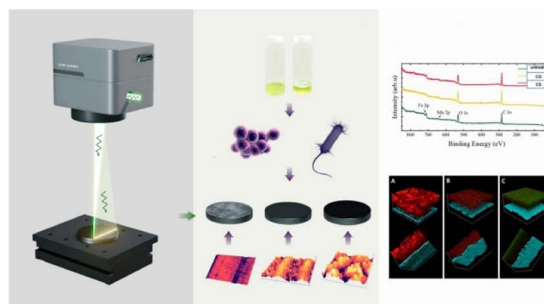
Shilpa B., Pudhari Srilatha, Umair Khan,* Naveen Kumar R., Samia Ben Ahmed and Raman Kumar



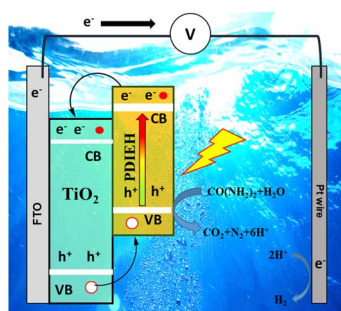
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Femtosecond laser modified metal surfaces alter biofilm architecture and reduce bacterial biofilm formation

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



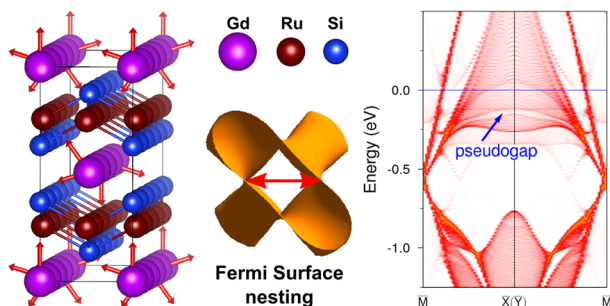
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A TiO₂ nanorod and perylene diimide based inorganic/organic nanoheterostructure photoanode for photoelectrochemical urea oxidation

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

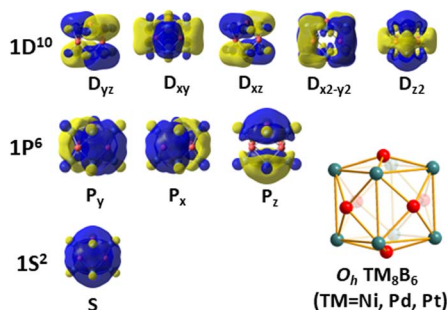
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Insight into the electronic structure of the centrosymmetric skyrmion magnet GdRu₂Si₂

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*

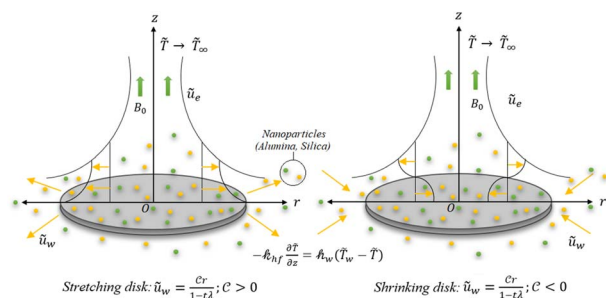
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Perfect cubic metallo-borosphenes TM₈B₆ (TM = Ni, Pd, Pt) as superatoms following the 18-electron rule

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



