

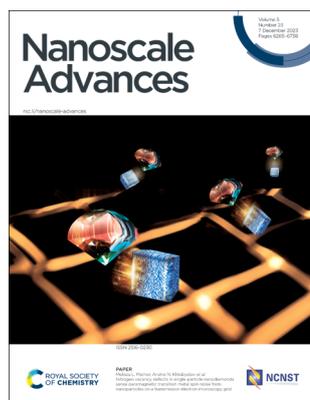
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IN THIS ISSUE

ISSN 2516-0230 CODEN NAADAI 5(23) 6265–6738 (2023)



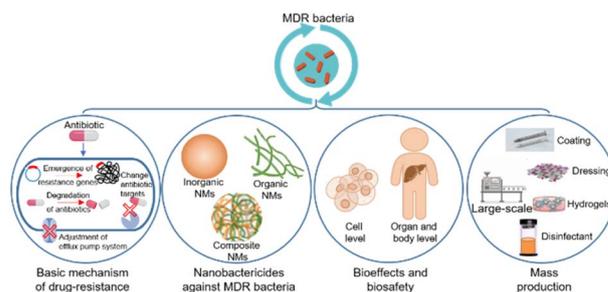
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REVIEWS

6278

Recent advances in nanoantibiotics against multidrug-resistant bacteria

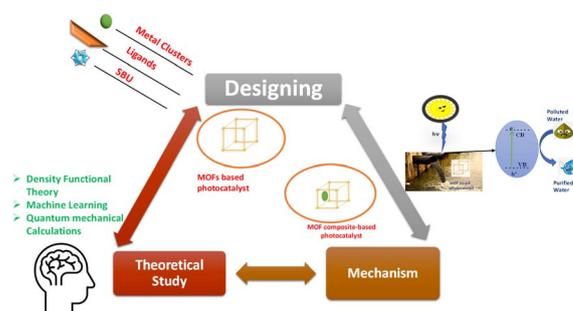
Mulan Li, Ying Liu, Youhuan Gong, Xiaojie Yan, Le Wang,* Wenfu Zheng,* Hao Ai* and Yuliang Zhao*



6318

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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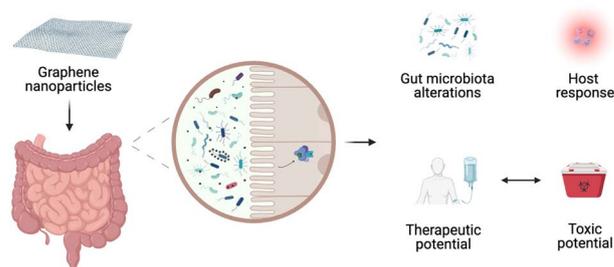


REVIEWS

6349

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

Olga Wojciechowska, Adele Costabile and Matgorzata Kujawska*

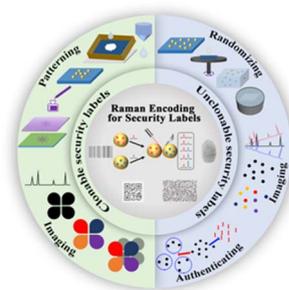


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6365

Raman encoding for security labels: a review

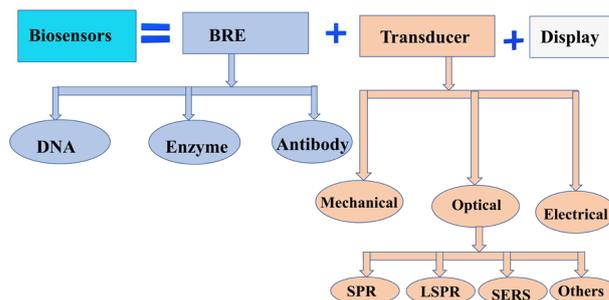
Dong Yu, Wei Zhu* and Ai-Guo Shen*



6382

A review on hybridization of plasmonic and photonic crystal biosensors for effective cancer cell diagnosis

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

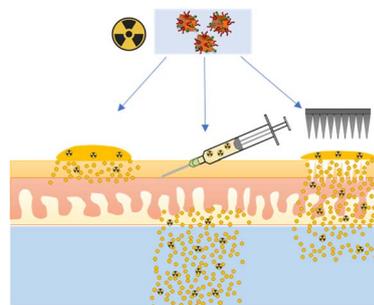


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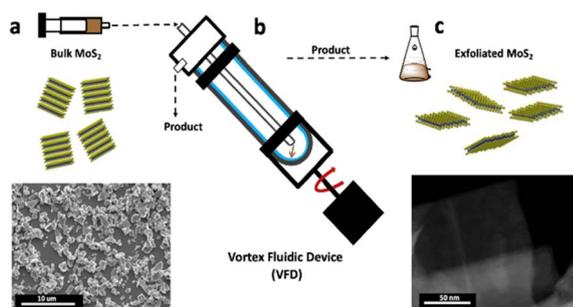
6400

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*



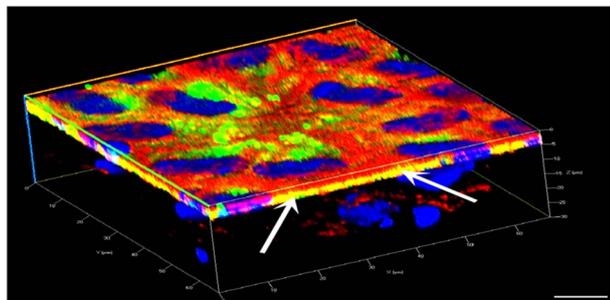
6405



High conversion continuous flow exfoliation of 2D MoS₂

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

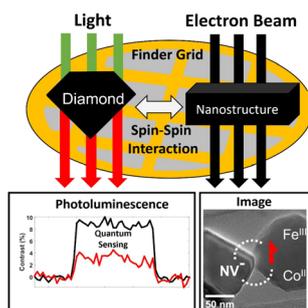
6410



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*

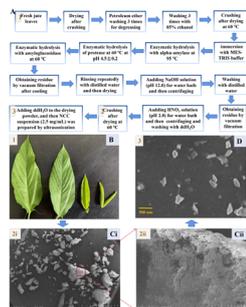
6423



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

Bradley T. Flinn, Valentin Radu, Michael W. Fay, Ashley J. Tyler, Jem Pitcairn, Matthew J. Cliffe, Benjamin L. Weare, Craig T. Stoppiello, Melissa L. Mather* and Andrei N. Khlobystov*

6435



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

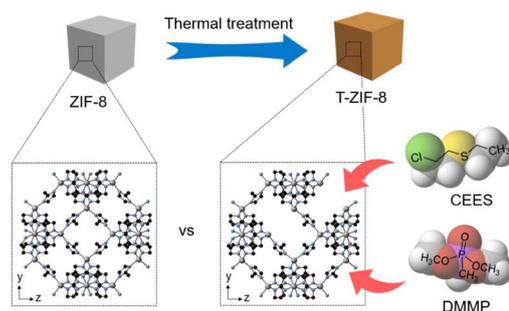
Yanchun Deng, Jiangpeng Pan, Xiai Yang, Sa Yang, Haiyang Chi, Xiushi Yang, Xiaoxin Qu, Shitao Sun, Linfeng You* and Chunsheng Hou*



6449

Boosted ability of ZIF-8 for early-stage adsorption and degradation of chemical warfare agent simulants

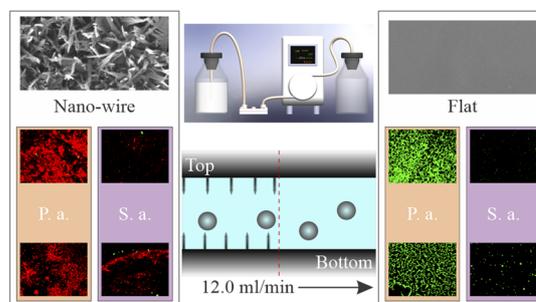
Sojin Oh, Sujeong Lee, Gihyun Lee and Moonhyun Oh*



6458

Preferential adhesion of bacterial cells onto top- and bottom-mounted nanostructured surfaces under flow conditions

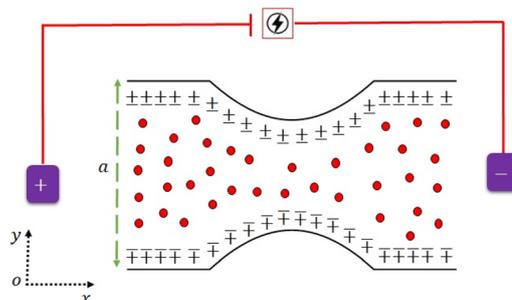
S. W. M. A. Ishantha Senevirathne,* Asha Mathew, Yi-Chin Toh and Prasad K. D. V. Yarlagadda



6473

Rheological study of Hall current and slip boundary conditions on fluid–nanoparticle phases in a convergent channel

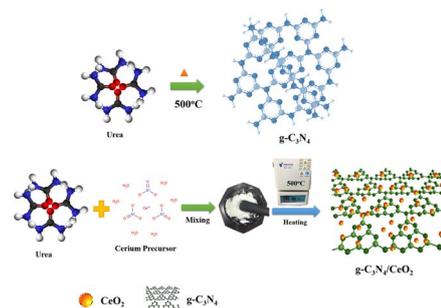
Mubbashar Nazeer, M. Ijaz Khan,* Sherzod Abdullaev, Fuad A. Awwad and Emad A. A. Ismail



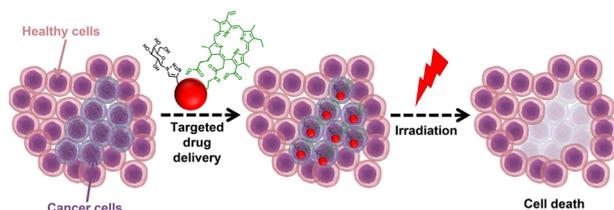
6489

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



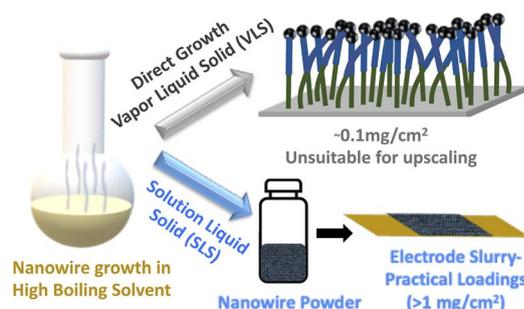
6501



Targeted photodynamic therapy for breast cancer: the potential of glyconanoparticles

Brydie A. Thomas-Moore, Simone Dedola, David A. Russell, Robert A. Field and María J. Marin*

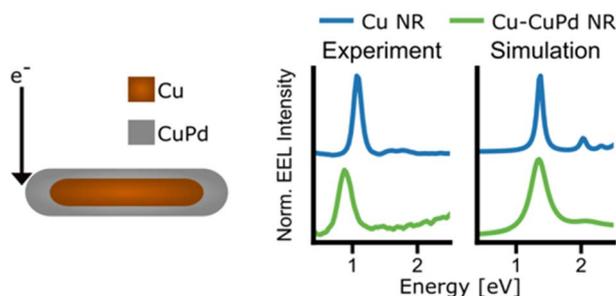
6514



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*

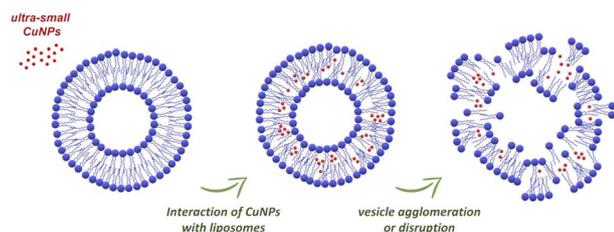
6524



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*

6533



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

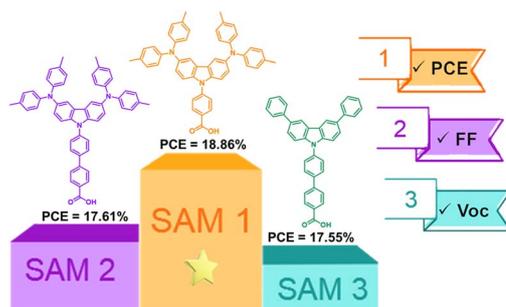
Margherita Izzi, Miquel Oliver, Helena Mateos, Gerardo Palazzo, Nicola Cioffi* and Manuel Miró*



6542

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

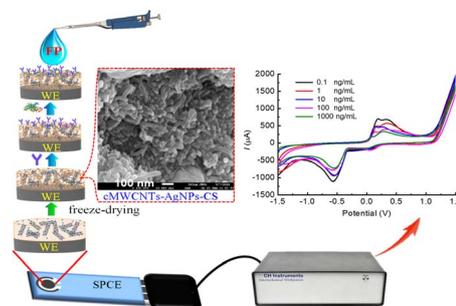
Dora A. González, Carlos E. Puerto Galvis, Wenhui Li, Maria Méndez, Ece Aktas, Eugenia Martínez-Ferrero and Emilio Palomares*



6548

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

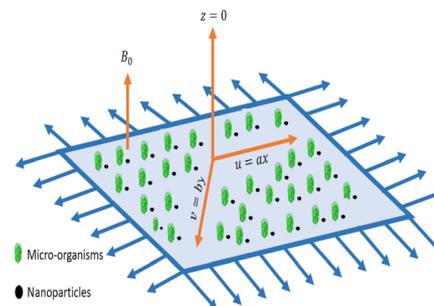
Wen-Chien Huang,* You-Ning Hsiung and Chia-Ling Li



6560

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

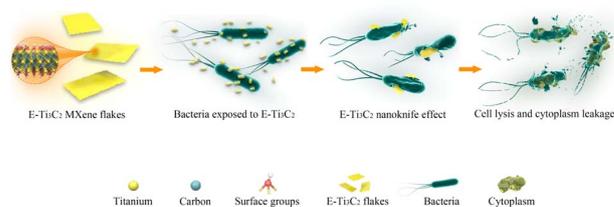
Zubair Hussain, Waqar Azeem Khan, M. Irfan, Taseer Muhammad, Sayed M. Eldin, M. Waqas and P. V. Satya Narayana*



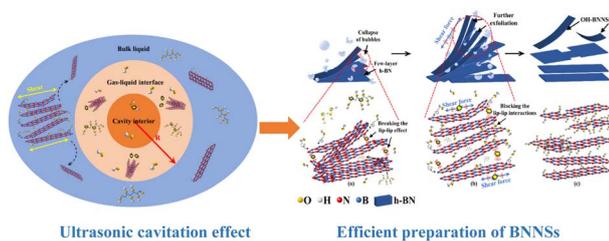
6572

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*



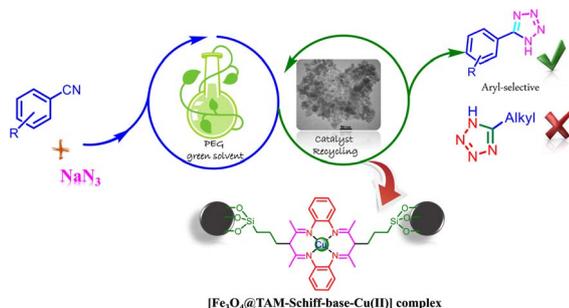
6582



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

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

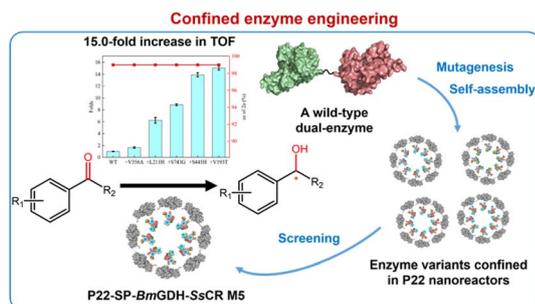
6594



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

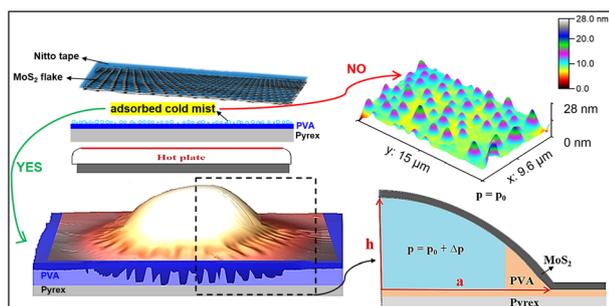
6606



Protein engineering of multi-enzyme virus-like particle nanoreactors for enhanced chiral alcohol synthesis

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

6617



Viscous fingering instabilities in spontaneously formed blisters of MoS₂ multilayers

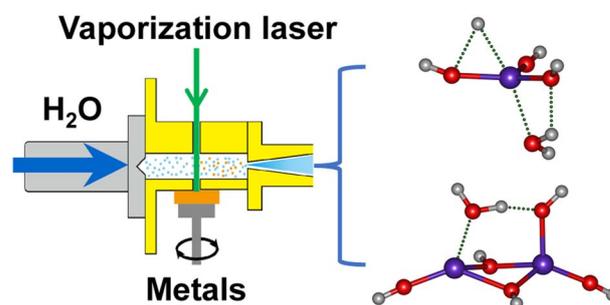
Mukesh Pandey, Rajeev Ahuja* and Rakesh Kumar*



6626

Infrared spectroscopic study of solvation and size effects on reactions between water molecules and neutral rare-earth metals

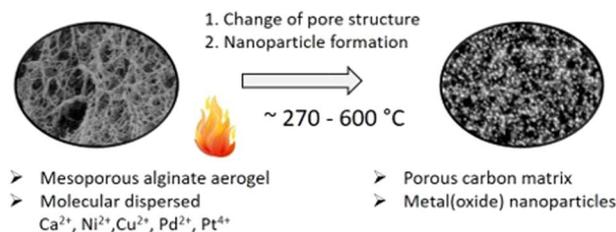
Tiantong Wang, Shangdong Li, Wenhui Yan, Shuai Jiang, Hua Xie, Gang Li* and Ling Jiang*



6635

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

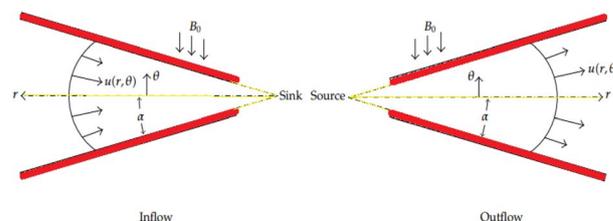
Juan I. del Río, Laura Juhász, József Kalmár, Zoltán Erdélyi, María D. Bermejo, Ángel Martín, Irina Smirnova, Pavel Gurikov and Baldur Schroeter*



6647

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

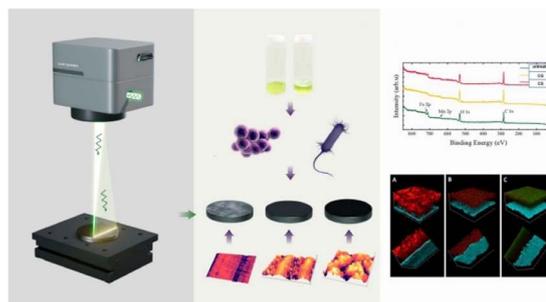
Shilpa B., Pudhari Srilatha, Umair Khan,* Naveen Kumar R., Samia Ben Ahmed and Raman Kumar



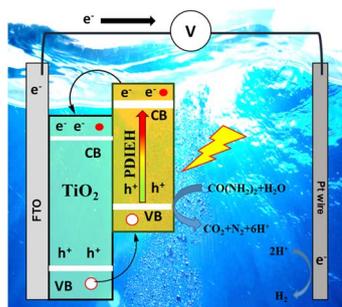
6659

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*



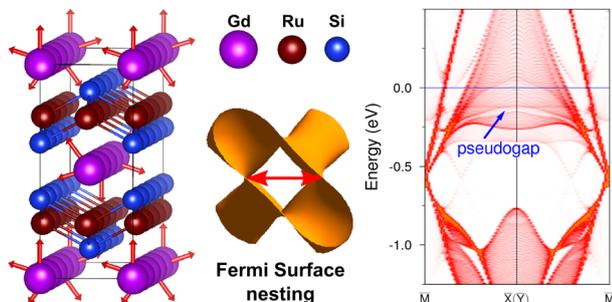
6670



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*

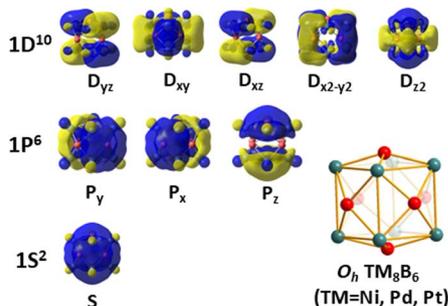
6678



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*

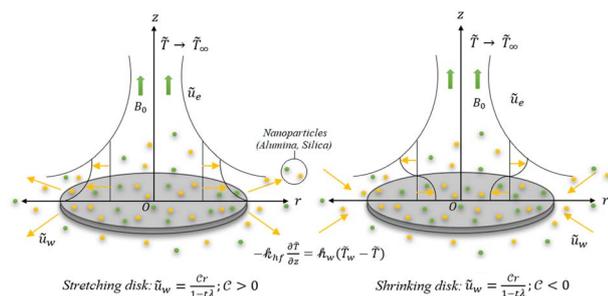
6688



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*

6695



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

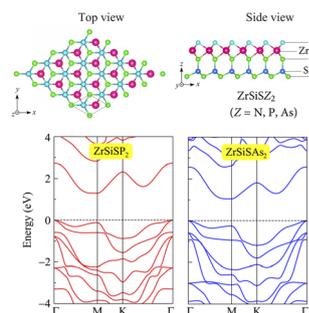
Mahnour Sarfraz, Muhammad Yasir* and Masood Khan



6705

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

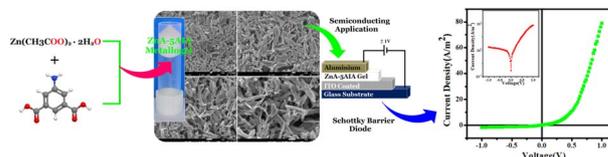
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6714

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

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6724

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

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