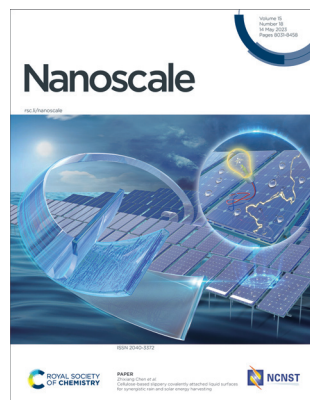


IN THIS ISSUE

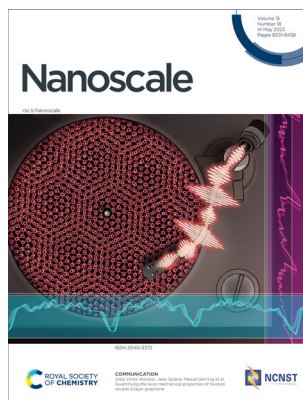
ISSN 2040-3372 CODEN NANOHL 15(18) 8031–8458 (2023)



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See Zhixiang Chen *et al.*, pp. 8158–8168.

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Inside cover

See Oleg Victor Kolosov, Jean Spièce, Pascal Gehring *et al.*, pp. 8134–8140.

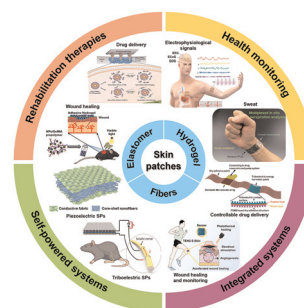
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REVIEWS

8044

Evolution of nanostructured skin patches towards multifunctional wearable platforms for biomedical applications

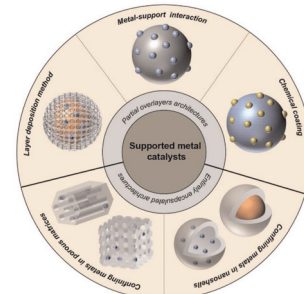
Daniel Rybak, Yu-Chia Su, Yang Li, Bin Ding,* Xiaoshuang Lv, Zhaoling Li, Yi-Cheun Yeh, Pawel Nakielski, Chiara Rinoldi, Filippo Pierini* and Jagan Mohan Dodda*



8084

Review on supported metal catalysts with partial/porous overlayers for stabilization

Kun Lu, Xiao Kong, Junmeng Cai, Shirui Yu and Xingguang Zhang*



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REVIEWS

8110

A review on accelerated development of skin-like MXene electrodes: from experimental to machine learning

Romy Garg, Nikhil Ram Patra, Soumyajit Samal, Shubham Babbar and Kaushik Parida*

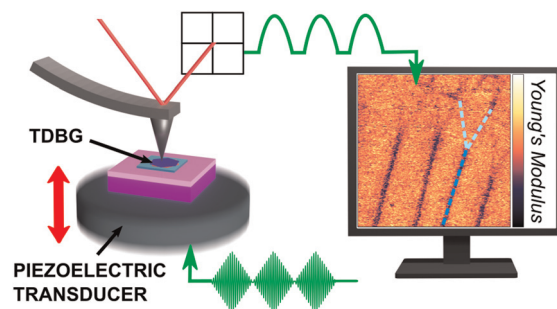


COMMUNICATIONS

8134

Quantifying the local mechanical properties of twisted double bilayer graphene

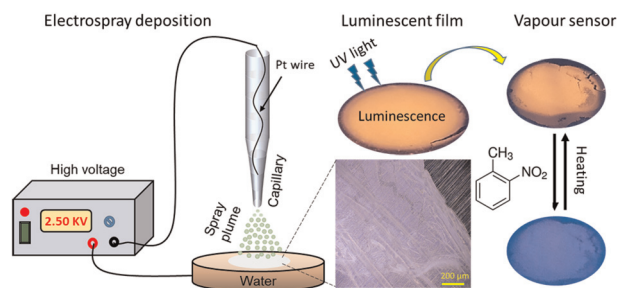
Alessandra Canetta, Sergio Gonzalez-Munoz, Viet-Hung Nguyen, Khushboo Agarwal, Pauline de Crombrughe de Picquendaele, Yuanzhuo Hong, Sambit Mohapatra, Kenji Watanabe, Takashi Taniguchi, Bernard Nysten, Benoit Hackens, Rebeca Ribeiro-Palau, Jean-Christophe Charlier, Oleg Victor Kolosov,* Jean Spieće* and Pascal Gehring*



8141

A luminescent Cu₄ cluster film grown by electro-spray deposition: a nitroaromatic vapour sensor

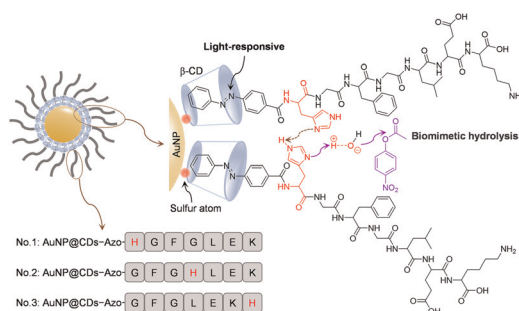
Arijit Jana, B. K. Spoorthi, Akhil S. Nair, Ankit Nagar, Biswarup Pathak,* Tomas Base* and Thalappil Pradeep*



8148

Tuning the enzyme-like activity of peptide–nanoparticle conjugates with amino acid sequences

Xiaojin Zhang, Yichuan Wang, Yu Dai* and Fan Xia*



COMMUNICATIONS

8153

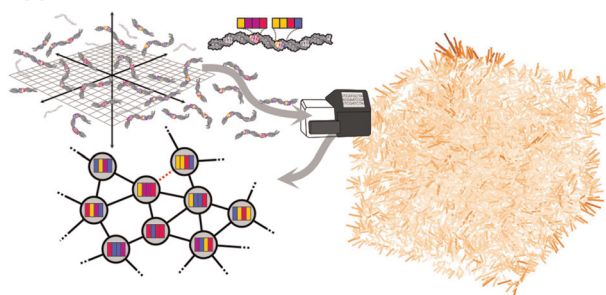
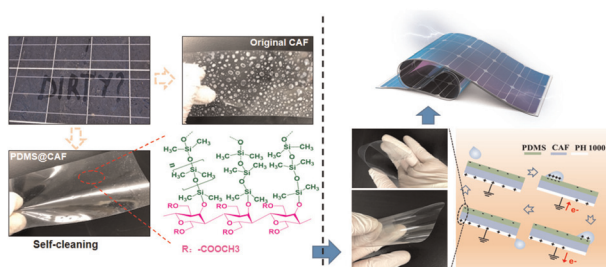


Image recovery from unknown network mechanisms for DNA sequencing-based microscopy

David Fernandez Bonet and Ian T. Hoffecker*

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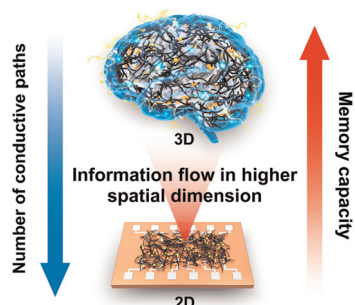
8158



Cellulose-based slippery covalently attached liquid surfaces for synergistic rain and solar energy harvesting

Zhixiang Chen,* Yi Lu, Rogerio Manica, Jianting Lu, Di Shi, Jingqiao Li and Qingxia Liu

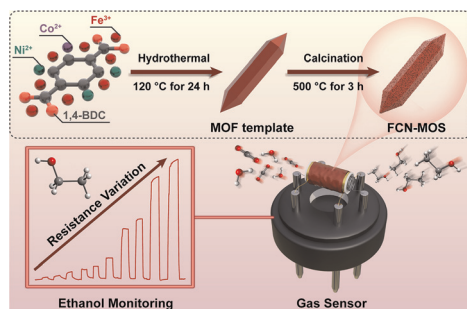
8169



Influence of junction resistance on spatiotemporal dynamics and reservoir computing performance arising from an SWNT/POM 3D network formed via a scaffold template technique

Saman Azhari,* Deep Banerjee, Takumi Kotooka, Yuki Usami and Hirofumi Tanaka*

8181



Metal-organic framework-derived trimetallic oxides with dual sensing functions for ethanol

Xin-Yu Huang, Ya-Ru Kang, Shu Yan, Ahmed Elmarakbi, Yong-Qing Fu* and Wan-Feng Xie*

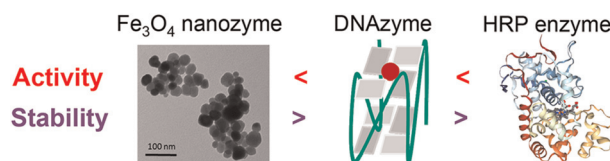


PAPERS

8189

Comparison of the peroxidase activities of iron oxide nanozyme with DNAzyme and horseradish peroxidase

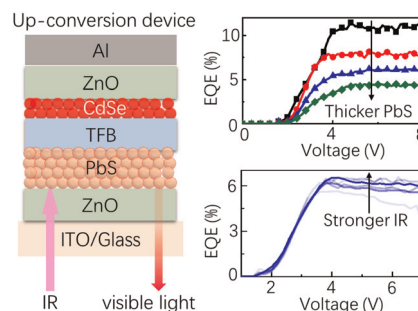
Chang Lu, Mohamad Zandieh, Jinkai Zheng* and Juewen Liu*



8197

Elaborating the interplay between the detecting unit and emitting unit in infrared quantum dot up-conversion photodetectors

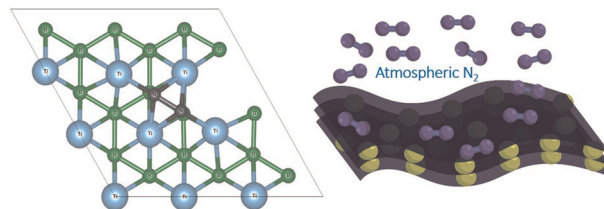
Qiulei Xu, Xinxin Yang, Jiao Jiao Liu, Fei Li, Ruiguang Chang, Lei Wang, A Qiang Wang,* Zhenghui Wu,* Huaibin Shen and Zuliang Du



8204

Nitrogen adsorption *via* charge transfer on vacancies created during surfactant assisted exfoliation of TiB₂

Anshul Rasyotra, Anupma Thakur, Raviraj Mandalia, Raghavan Ranganathan and Kabeer Jasuja*

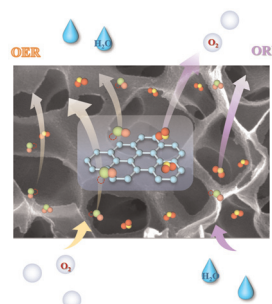


Defects present in TiB₂ nanosheets chemisorb N₂ under ambient conditions

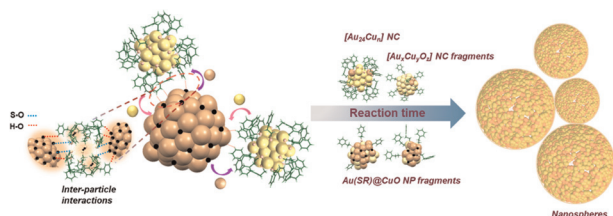
8217

Boosting oxygen evolution electrocatalysis *via* CeO₂ engineering on Fe₂N nanoparticles for rechargeable Zn–air batteries

Minghui Wang, Jianwei Ren,* Hui Wang, Xuyun Wang and Rongfang Wang*



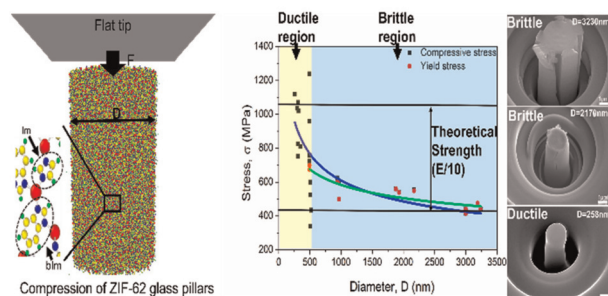
8225



Dissociative reactions of $[\text{Au}_{25}(\text{SR})_{18}]^-$ at copper oxide nanoparticles and formation of aggregated nanostructures

Jayoti Roy, Biswajit Mondal, Gaurav Vishwakarma, Nonappa, Nishanthi Vasanthi Sridharan, Pattabiraman Krishnamurthi and Thalappil Pradeep*

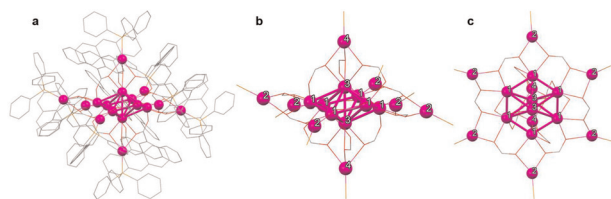
8235



Brittle-to-ductile transition and theoretical strength in a metal–organic framework glass

Shaohua Yan, Thomas D. Bennett, Weipeng Feng, Zhongyin Zhu, Dingcheng Yang, Zheng Zhong* and Qing H. Qin*

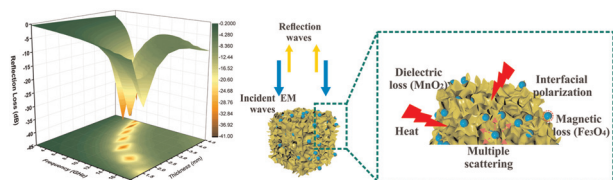
8245



Monocarboxylate-protected two-electron superatomic silver nanoclusters with high photothermal conversion performance

Hao-Hai Wang, Jianyu Wei, Fahime Bigdeli, Farzaneh Rouhani, Hai-Feng Su, Ling-Xiao Wang, Samia Kahlal, Jean-François Halet, Jean-Yves Saillard*, Ali Morsali* and Kuan-Guan Liu*

8255



Enhanced electromagnetic wave absorption of $\text{Fe}_3\text{O}_4@\text{MnO}_2@\text{Ni-Co/C}$ composites derived from Prussian blue analogues

Huanhuan Wang, Qi Qu, Jiangshan Gao* and Yan He*

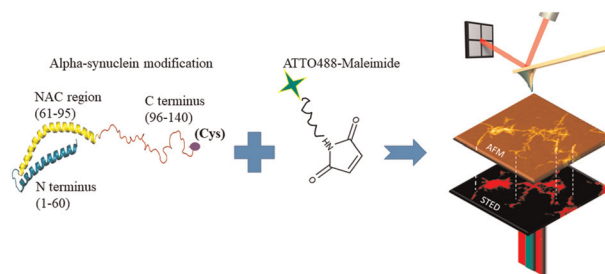


PAPERS

8270

Fluorescence labeling methods influence the aggregation process of α -syn *in vitro* differently

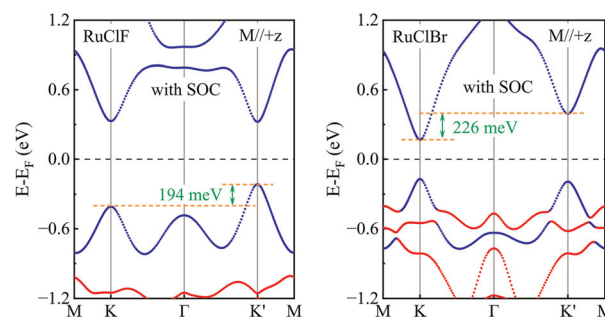
S. Jadavi, S. Dante, L. Civiero, M. Sandre, L. Bubacco, L. Tosatto, P. Bianchini, C. Canale* and A. Diaspro



8278

Distinct ferrovalley characteristics of the Janus RuClX ($X = \text{F}, \text{Br}$) monolayer

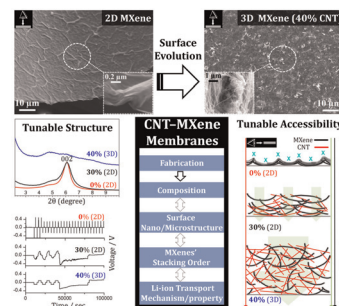
Yubiao Ma, Yanzhao Wu, Junwei Tong, Li Deng, Xiang Yin, Lianqun Zhou, Xiaoli Han, Fubo Tian and Xianmin Zhang*



8289

CNT–MXene ultralight membranes: fabrication, surface nano/microstructure, 2D–3D stacking architecture, ion-transport mechanism, and potential application as interlayers for Li-O_2 batteries

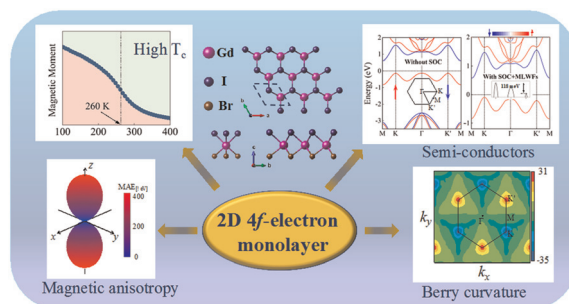
Mehdi Estili,* Shoichi Matsuda,* Lulu Jia, Nobuyuki Sakai, Renzhi Ma, Tohru S. Suzuki and Kohei Uosaki



8304

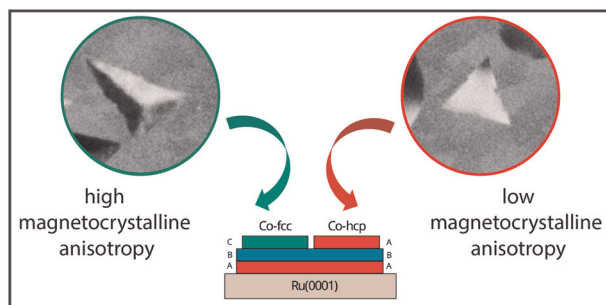
Two-dimensional ferromagnetic semiconductors of rare-earth Janus 2H-GdIBr monolayers with large valley polarization

Cunquan Li and Yukai An*



PAPERS

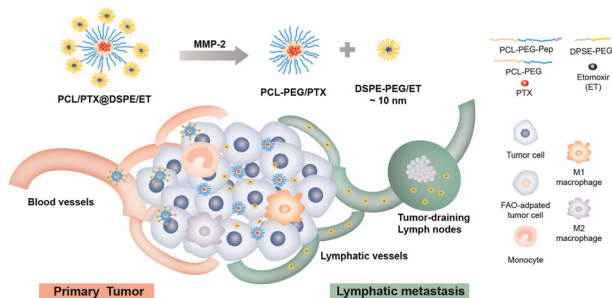
8313



Stacking influence on the in-plane magnetic anisotropy in a 2D magnetic system

Sandra Ruiz-Gómez, Lucas Pérez, Arantzazu Mascaraque, Benito Santos, Farid El Gabaly, Andreas K. Schmid and Juan de la Figuera*

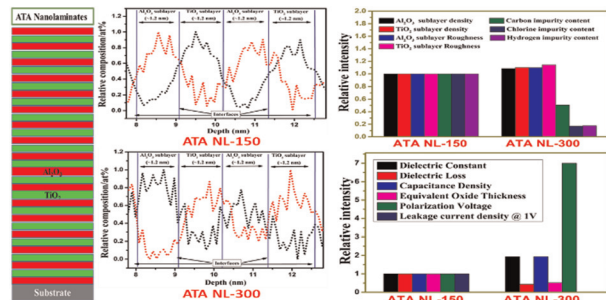
8320



A core-satellite micellar system against primary tumors and their lymphatic metastasis through modulation of fatty acid metabolism blockade and tumor-associated macrophages

Xuan He, Tao Deng, Jiaxin Li, Rong Guo, Yashi Wang, Ting Li, Shuya Zang, Jiaxin Li, Ling Zhang, Man Li* and Qin He*

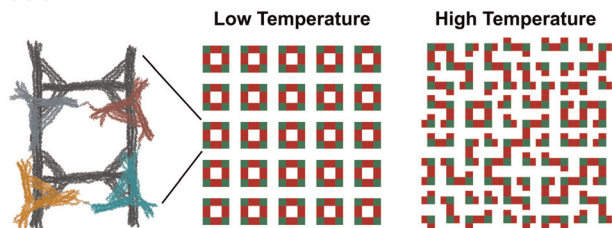
8337



Process temperature-dependent interface quality and Maxwell–Wagner interfacial polarization in atomic layer deposited $\text{Al}_2\text{O}_3/\text{TiO}_2$ nanolaminates for energy storage applications

Partha Sarathi Padhi,* R. S. Ajimsha, S. K. Rai, U. K. Goutam, Aniruddha Bose, Sushmita Bhartiya and Pankaj Misra*

8356



Thermally reversible pattern formation in arrays of molecular rotors

Marcello DeLuca, Wolfgang G. Pfeifer, Benjamin Randoing, Chao-Min Huang, Michael G. Poirier, Carlos E. Castro and Gaurav Arya*

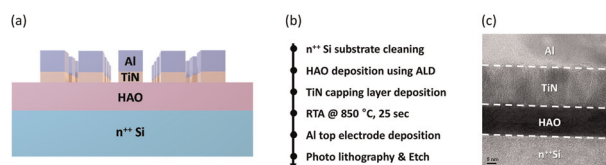


PAPERS

8366

Ferroelectric synaptic devices based on CMOS-compatible HfAlO_x for neuromorphic and reservoir computing applications

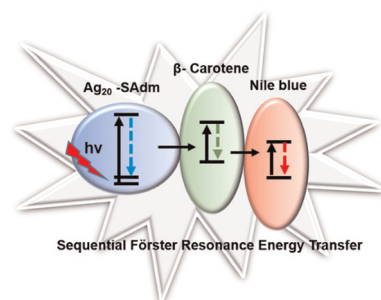
Dahye Kim, Jihyung Kim, Seokyeon Yun, Jungwoo Lee, Euncho Seo and Sungjun Kim*



8377

Luminescent $[\text{CO}_2@ \text{Ag}_{20}(\text{SAdm})_{10}(\text{CF}_3\text{COO})_{10}(\text{DMA})_2]$ nanocluster: synthetic strategy and its implication towards white light emission

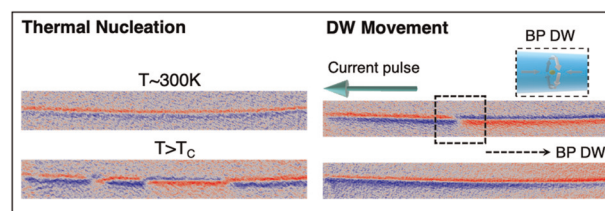
Sourav Biswas, Anish Kumar Das, Avirup Sardar, Surya Sekhar Manna, Pradip Kumar Mondal, Maurizio Polentarutti, Biswarup Pathak and Sukhendu Mandal*



8387

Domain wall propagation and pinning induced by current pulses in cylindrical modulated nanowires

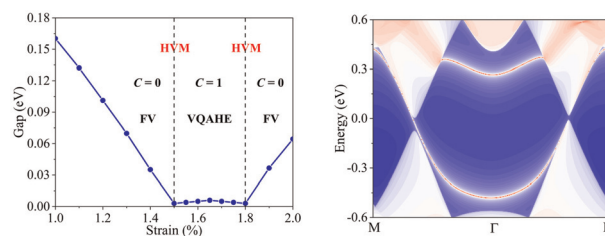
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8395

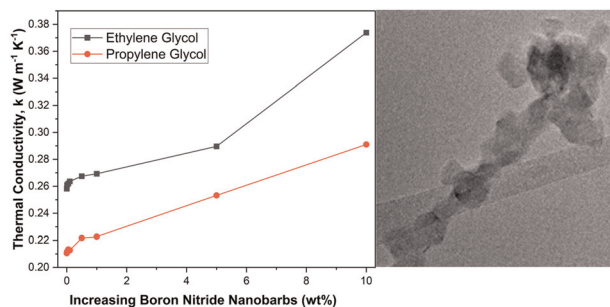
Spontaneous valley polarization and valley-nonequilibrium quantum anomalous Hall effect in Janus monolayer ScBrI

Kang Jia, Xiao-Jing Dong, Sheng-Shi Li, Wei-Xiao Ji and Chang-Wen Zhang*



PAPERS

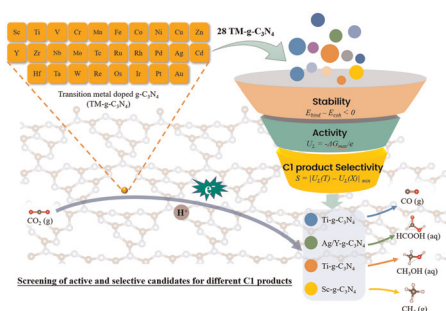
8406



Thermal conductivity of ethylene glycol and propylene glycol nanofluids with boron nitride nano-barbs

Adesewa O. Maselugbo, Bolaji L. Sadiku and Jeffrey R. Alston*

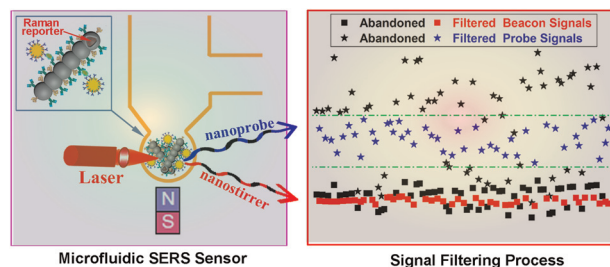
8416



Computational screening of effective g-C₃N₄ based single atom electrocatalysts for the selective conversion of CO₂

Huiwen Zhu, Shuai Liu, Jiahui Yu, Quhan Chen, Xinyi Mao and Tao Wu*

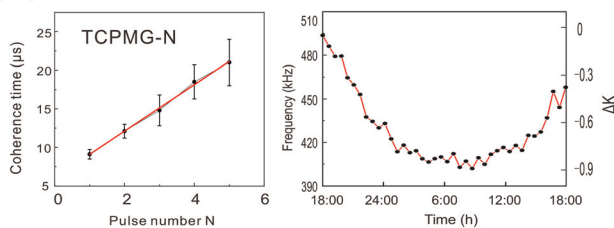
8424



Design of Raman reporter-embedded magnetic/plasmonic hybrid nanostirrers for reliable microfluidic SERS biosensors

Bingfang Zou, Shiyun Lou, Jie Duan, Shaomin Zhou* and Yongqiang Wang*

8432



High-sensitivity silicon carbide divacancy-based temperature sensing

Qin-Yue Luo, Shuang Zhao, Qi-Cheng Hu, Wei-Ke Quan, Zi-Qi Zhu, Jia-Jun Li and Jun-Feng Wang*

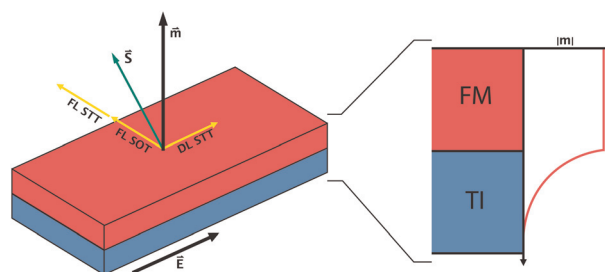


PAPERS

8437

Spin transfer torques due to the bulk states of topological insulators

James H. Cullen,* Rhonald Burgos Atencia and Dimitrie Culcer



8447

Large tunneling magnetoresistance in spin-filtering 1T-MnSe₂/h-BN van der Waals magnetic tunnel junction

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