

Materials Horizons

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IN THIS ISSUE

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Cover

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Inside cover

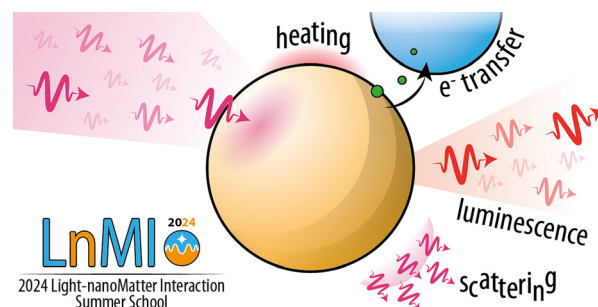
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EDITORIALS

4483

Introduction to the Light-nanoMatter Interactions themed collection

Liyang Ming,* Erving Ximendes* and Riccardo Marin*



4485

Materials Horizons Emerging Investigator Series: Dr Jung-Yao Chen, National Cheng Kung University



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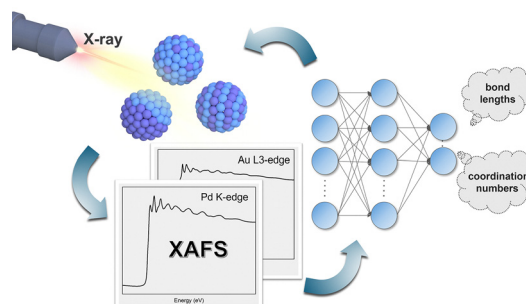


REVIEWS

4487

Machine learning-assisted X-ray absorption analysis of bimetallic catalysts

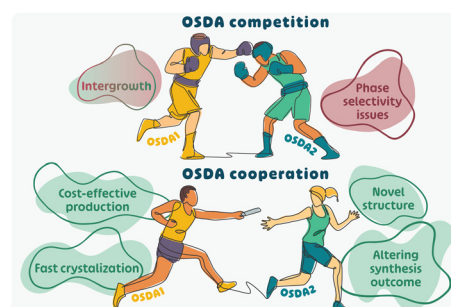
Shuting Xiang, Marc R. Knecht and Anatoly Frenkel*



4496

Dual organic structure-directing agents in zeolite synthesis: cooperation or competition?

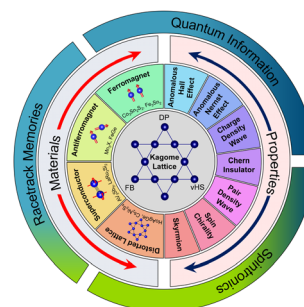
Amirhossein Javdani, Juna Bae, Gleb Ivanushkin and Michiel Dusselier*



4510

Magnetic Kagome materials: bridging fundamental properties and topological quantum applications

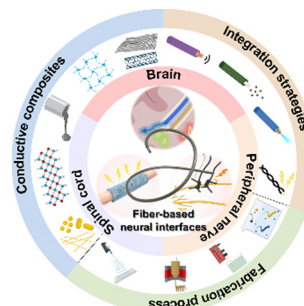
Pranav Negi, Koushik Medhi, Abhinav Pancholi and Subhajit Roychowdhury*



4545

Emerging fiber-based neural interfaces with conductive composites

Chihyeong Won, Sungjoon Cho, Kyung-In Jang, Jang-Ung Park, Jeong Ho Cho and Taeyoon Lee*



REVIEWS

4573

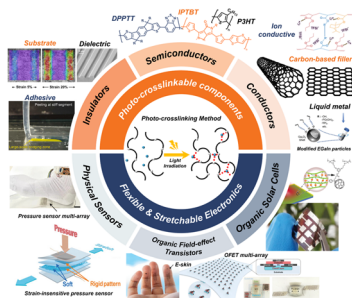
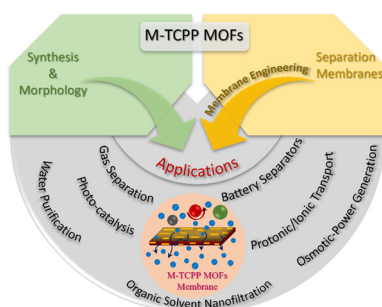


Photo-crosslinkable organic materials for flexible and stretchable electronics

Minsung Kim, Hayeong Park, Eunjin Kim, Minji Chung and Joon Hak Oh*

4608

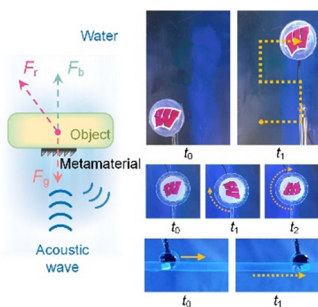


Porphyritic metal–organic frameworks as separation membranes: from synthesis to advanced applications

Shabab Hussain, Xinsheng Peng* and Lei Wang*

COMMUNICATIONS

4639

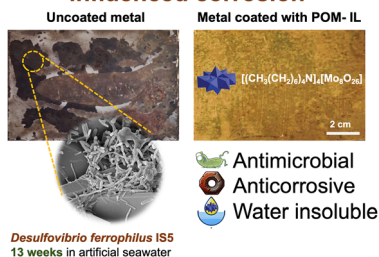


Acoustic metamaterials for remote manipulation of large objects in water

Dajun Zhang and Chu Ma*

4648

Mitigating microbiologically influenced corrosion



Multifunctional polyoxomolybdate ionic liquid coatings for mitigating microbiologically influenced corrosion

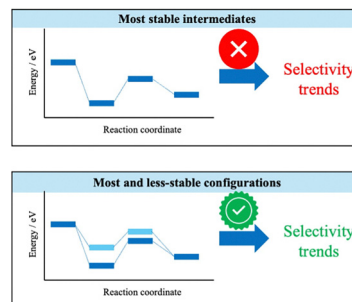
Mariella Malefioudaki, Archismita Misra, Nadja Sbeity, Juan Zueco-Vincelle, Miguel A. Laguna-Bercero, Andrea Koerdt,* Rafael Martin-Rapún and Scott G. Mitchell*



4662

Unveiling selectivity trends for CO₂ reduction reaction over Ti₃C₂T_x MXene: the key role of less-stable intermediate states and coadsorbates

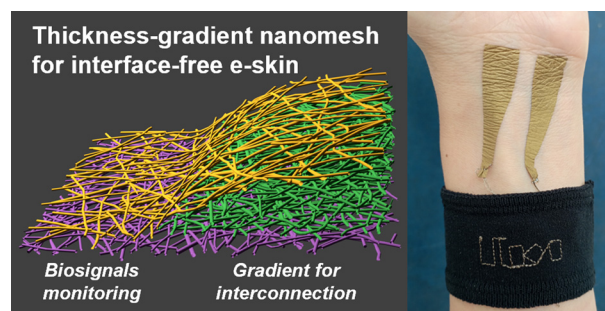
Pablo Lozano-Reis and Kai S. Exner*



4676

A novel thickness-gradient electrospun nanomesh for interface-free e-skin applications

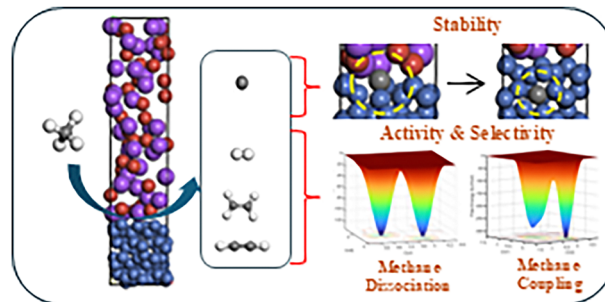
Dorina T. Papanastasiou, Suksmandhira Harimurti, Chika Okuda, Maho Mimuro, Wakako Yukita, Tomoyuki Yokota and Takao Someya*



4685

Catalytic methane dissociation and its non-oxidative coupling in metal-dispersed molten salt media: an *ab initio* molecular dynamics investigation

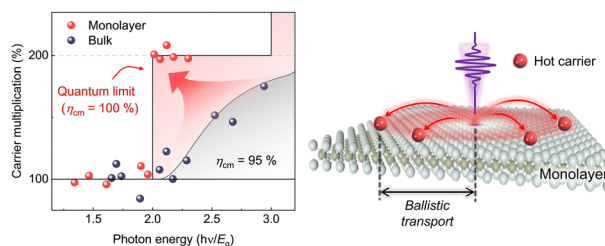
Pritam Rudra, Ojus Mohan* and Samir H. Mushrif*



4699

Hot carrier diffusion-assisted ideal carrier multiplication in monolayer MoSe₂

Joonsoo Kim, Hong-Guk Min, Sehwan Park, Jin Cheol Park, Junhyeok Bang,* Youngkuk Kim* and Ji-Hee Kim*



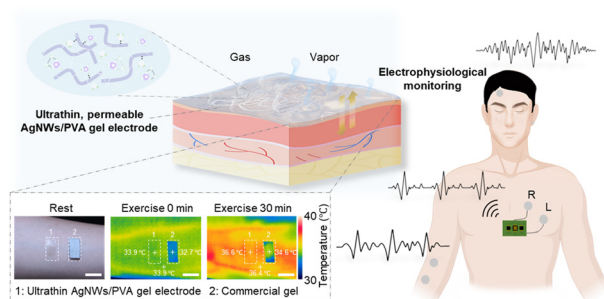
4709



Novel scalable synthesis of luminescent and magnetic single crystal garnets

Marcelo Nalin,* Leonardo V. Albino, Thiago A. Lodi, Juliane R. Orives, Lia M. Marcondes, Adamu A. Habib, Maria Helena R. Acosta, Edgar D. Zanotto and Douglas F. Franco

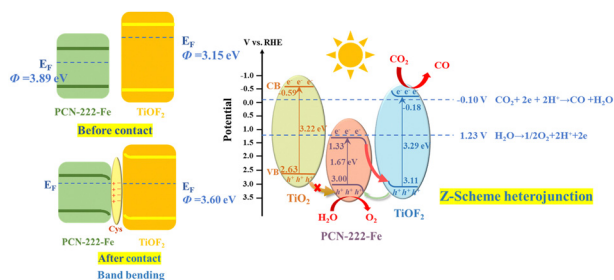
4714



Ultrathin and permeable silver nanowires/polyvinyl alcohol epidermal electrode for continuous electrophysiological monitoring

Junhong Yi, Yuheng Gu, Jiawei Yang, Zonglei Wang, Yuli Wang, Wenqing Yan, Qingyuan Sun, Pengcheng Zhou, Yumiao Xu, Xuezhong He, Junwen Zhong and Yan Wang*

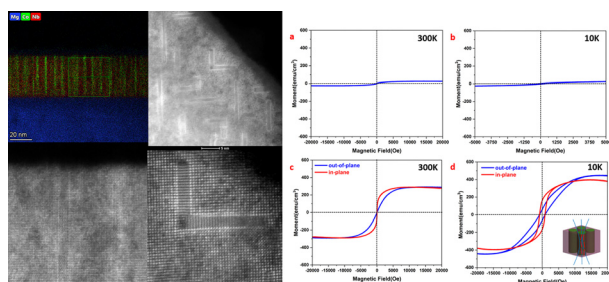
4724



Constructing a biomimetic TiO₂@PCN-222-Fe Z-scheme heterojunction using self-assembled L-cysteine for CO₂ visible light photoreduction

Yi Ping, Chuanjiao Wang, Changan Hou, Zhenfeng Shang and Danhong Wang*

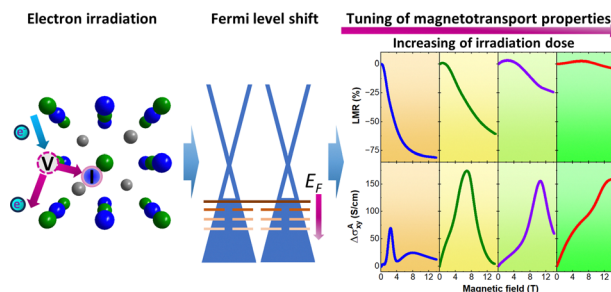
4740



4749

Tuning of anomalous magnetotransport properties in half-Heusler topological semimetal GdPtBi

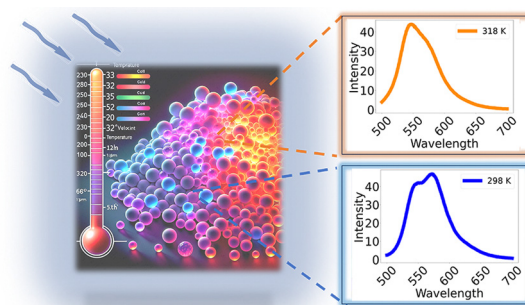
Orest Pavlosiuk,* Piotr Wiśniewski, Romain Grasset, Marcin Konczykowski, Andrzej Ptak and Dariusz Kaczorowski*



4759

Single ultrabright fluorescent silica nanoparticles can be used as individual fast real-time nanothermometers

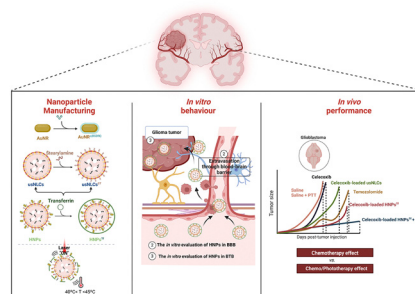
Mahshid Iraniparast, Nishant Kumar and Igor Sokolov*



4771

A switch-on chemo-photothermal nanotherapy impairs glioblastoma

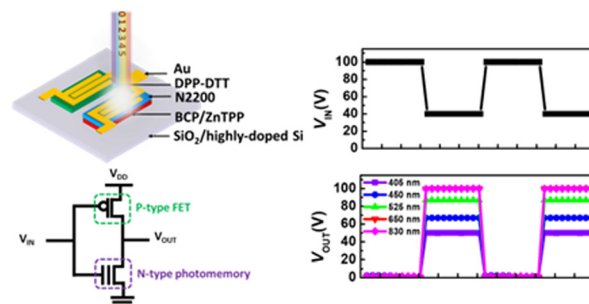
Maria Mendes, Maria António, Ana L. Daniel-da-Silva, José Sereno, Rui Oliveira, Luis G. Arnaut, Célia Gomes, Maria Luísa Ramos, Miguel Castelo-Branco, João Sousa, Alberto Pais and Carla Vitorino*



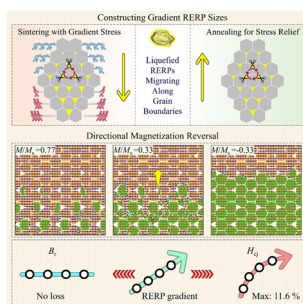
4788

Solution-processable and photo-programmable logic gate realized by organic non-volatile floating-gate photomemory

Yu-Dao Lu, Chan-Rung Hsu, Shin-Hau Ke, Kuan-Lin Lai, Horng-Long Cheng, Yu-Wu Wang and Jung-Yao Chen*



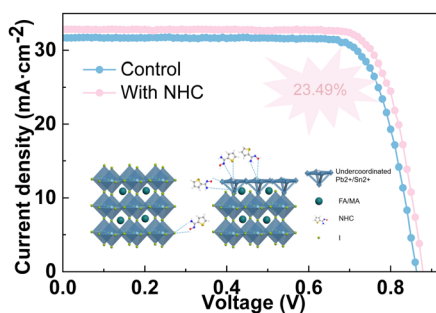
4802



Revealing high coercivity in Nd–Fe–B with gradient rare earth-rich phase sizes

Dongmin Zhang, Minggang Zhu,* Jingyan Zuo, Qisong Sun, Xiaolong Song, Xian Wu and Wei Li

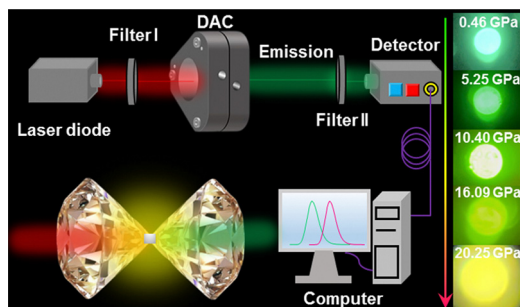
4813



Multiple active site additive-mediated suppression of Sn²⁺ oxidation and regulation of crystallization for high-performance Sn–Pb mixed perovskite solar cells

Cheng Li, Mingzhe Zhu, Haokun Jiang, Shuming Zhang, Jiahui Cheng, Huijie Cao, Tao Wang* and Zhongmin Zhou*

4822



Pressure-triggered polychromatic luminescence in Eu²⁺-activated Ca₈Zn(SiO₄)₄Cl₂ phosphors for high-sensitivity visual optical manometry

Peng Du,* Junpeng Xue, Shuailing Ma, Przemysław Woźny, Victor Lavin, Laihui Luo and Marcin Runowski*

4833



Eco-friendly colorful particle boards based on metal–ligand coordination

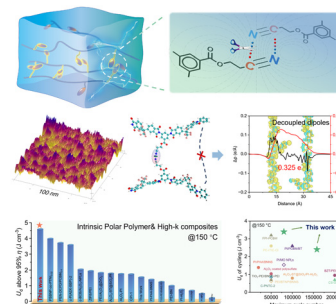
Yu Kang, Xuetao Xu, Jiankun Lai, Yuepeng Li, Wei Li, Yanqiang Wei, Feilong Zhang and Shutao Wang*



4841

Achieving ultrahigh charge–discharge efficiency and energy storage in high-temperature polar polymeric dielectrics *via* restrained dipole interactions

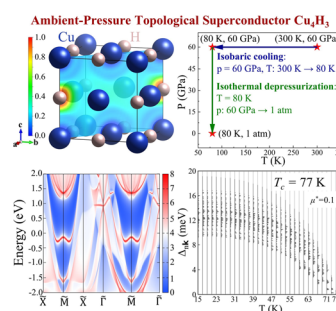
Baotieliang Wang, Jiawei Zou,* Bo Liu, Zhaoyang Wang, Bei Li, Donghua Xu, Qi Li* and Shifang Luan*



4851

Ductile copper hydride Eliashberg superconductors with T_c in the liquid-nitrogen temperature range and band topology at ambient pressure

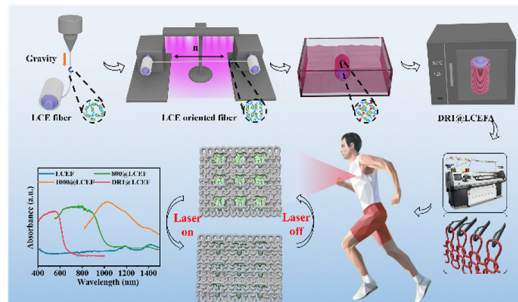
Chong Tian, Yao-hui Zhu,* Juan Du, Hong-xia Zhong, Jing Lu, Xinqiang Wang and Jun-jie Shi*



4862

Tunable photo-responsive liquid crystal elastomer fibers *via* disperse dyeing for smart textiles

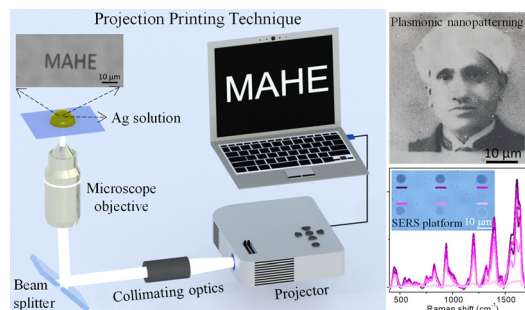
Ye Zhang, Xuan Wang, Xin Zhang, Wendi Wang, Yichen Yao, Junjie Pan, Guangwei Shao, Siyi Bi, Nanliang Chen, Jinhua Jiang* and Huiqi Shao*



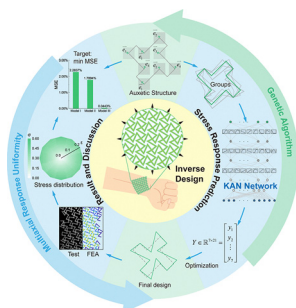
4875

White light-assisted projection printing of submicron plasmonic nanostructures for advanced nanofabrication

Bharath Bannur, Monisha Kolikkaje, Shreyas Mysuru Shivalingowda and Sajan Daniel George*



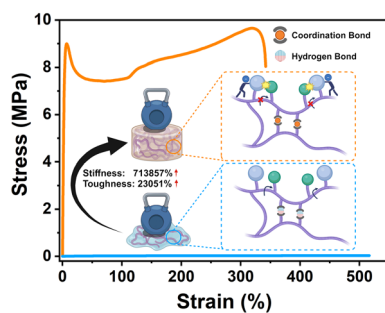
4884



Inverse design of isotropic auxetic metamaterials via a data-driven strategy

Ertai Cao, Zhicheng Dong, Ben Jia and Heyuan Huang*

4901



Molecular engineering of backbone rotation in an energy-dissipative hydrogel for combining ultra-high stiffness and toughness

Agniva Dutta,* Pintu Maity, Rajat Kumar Das* and Eyal Zussman*

