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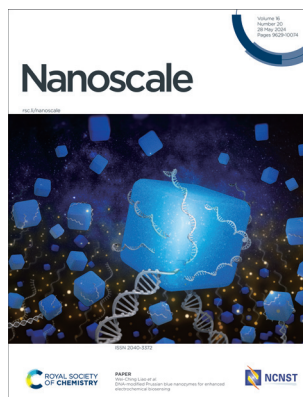
ISSN 2040-3372 CODEN NANOHL 16(20) 9629–10074 (2024)



Cover

See Inmaculada Andreu, Gonzalo Abellán *et al.*, pp. 9754–9769.

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Inside cover

See Wei-Ching Liao *et al.*, pp. 9770–9780.

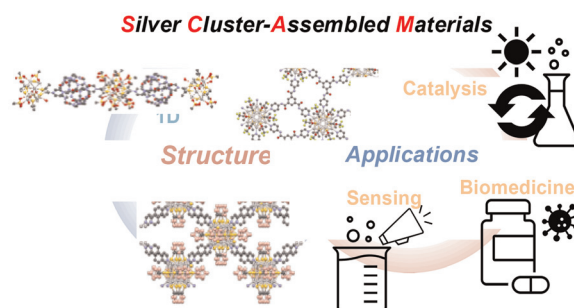
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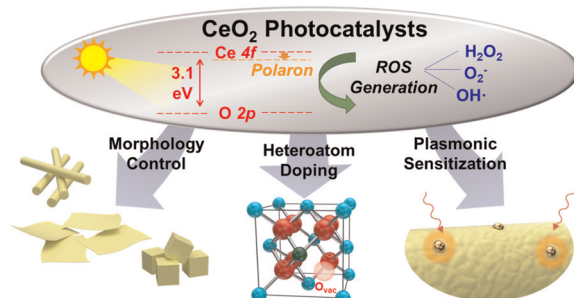
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Austin E. Herzog, Tara J. Michael, Adam D. Dunkelberger, Michelle D. Johannes, Debra R. Rolison, Paul A. DeSario and Travis G. Novak*



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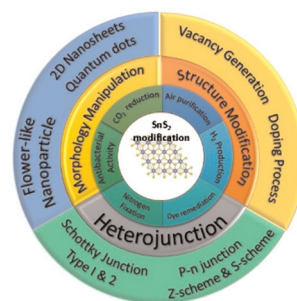


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Enhanced photocatalytic performance of SnS_2 under visible light irradiation: strategies and future perspectives

Ardiansyah Taufik,* Rosari Saleh and Gimyeong Seong*

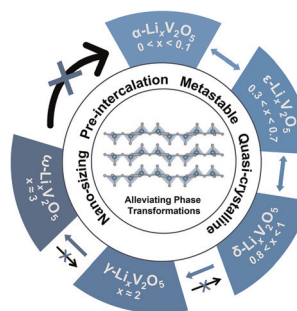


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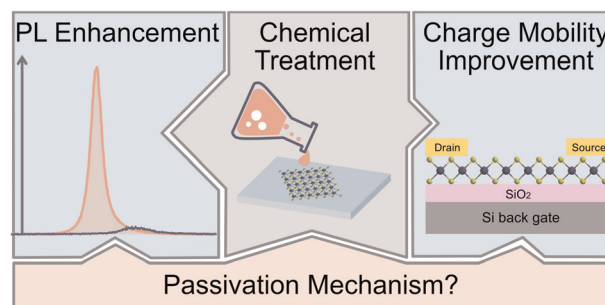
Muhammad Waseem Yaseen, Manju P. Maman, Shashank Mishra, Ibrahim Mohammad and Xuefei Li*



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Chemical passivation of 2D transition metal dichalcogenides: strategies, mechanisms, and prospects for optoelectronic applications

Zhaojun Li,* Hope Bretscher and Akshay Rao

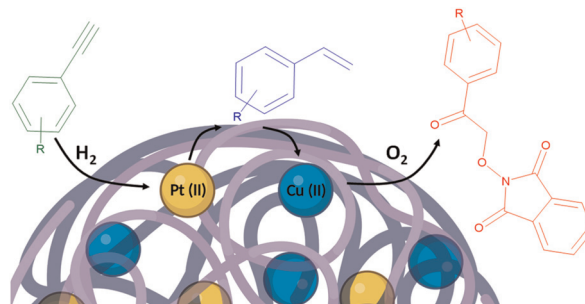


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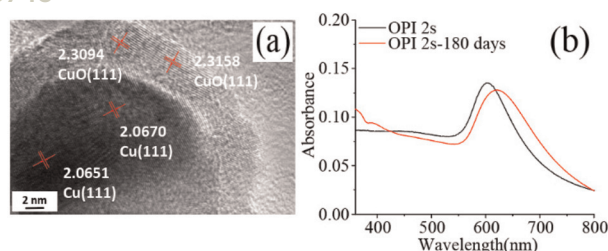
Consecutive one-pot alkyne semihydrogenation/alkene dioxygenation reactions by Pt(II)/Cu(II) single-chain nanoparticles in green solvent

Jokin Pinacho-Olaciregui, Ester Verde-Sesto, Daniel Taton and José A. Pomposo*



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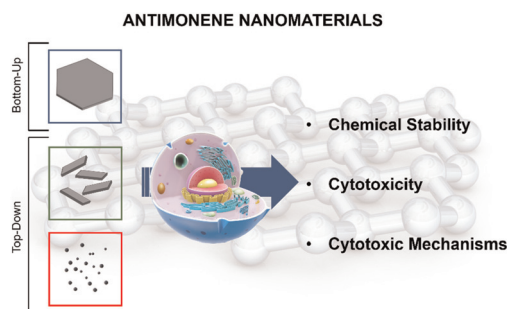


Highly stable localized surface plasmon resonance of Cu nanoparticles obtained via oxygen plasma irradiation

Yingcui Fang,* Bin Xu, Shuai Wang, Hongjun Liu, Jie Wang and Mengting Si*

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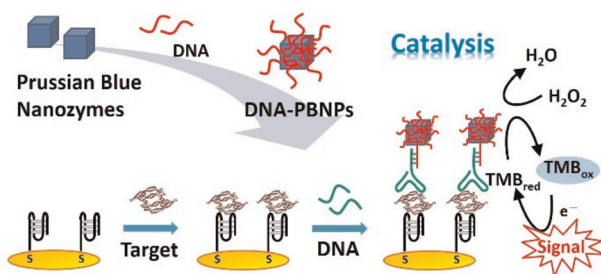
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Interplay between the oxidation process and cytotoxic effects of antimonene nanomaterials

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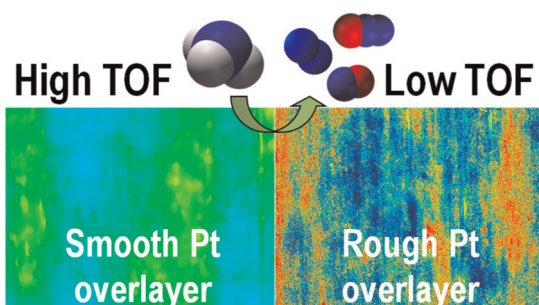
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DNA-modified Prussian blue nanozymes for enhanced electrochemical biosensing

Lin-Hui Huang, Yu-Yu Hsieh, Fu-An Yang and Wei-Ching Liao*

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Catalytic NH₃ oxidation affected by the nanometric roughness of the platinum overlayer

Masato Machida,* Nayu Yamasaki, Tomoya Miyoshi, Hiroki Kusaba, Tetsuya Sato, Keisuke Awaya, Hiroshi Yoshida, Junya Ohyama, Teppei Ohori, Kohei Oka, Kenji Fujii and Naoya Ishikawa

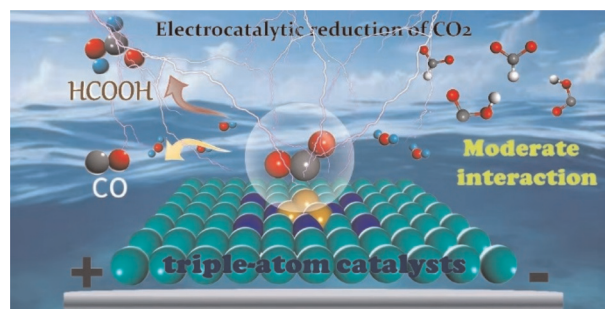


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Multi-atomic loaded C_2N_1 catalysts for CO_2 reduction to CO or formic acid

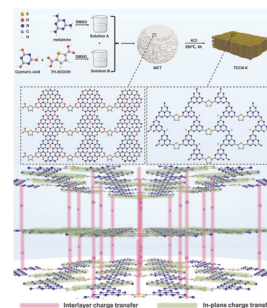
Yimeng Sun, Lin Tao,* Mingjie Wu,* Davoud Dastan, Javed Rehman, Lixiang Li and Baigang An*



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Bi-directional charge transfer channels in highly crystalline carbon nitride enabling superior photocatalytic hydrogen evolution

Runlu Liu, Siyuan Liu, Jingyi Lin, Xiaoxiao Zhang, Yao Li, Hui Pan, Lingti Kong, Shenmin Zhu* and John Wang*



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Fabrication of water-resistant fluorescent ink using the near-unity photoluminescence quantum yield of $CsPbBr_3$ doped with $NiBr_2$

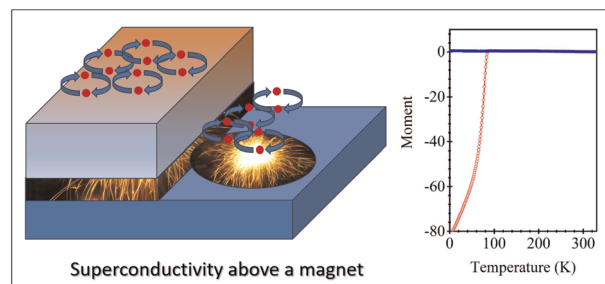
Dipanwita Roy, Shramana Guha and Somabrata Acharya*



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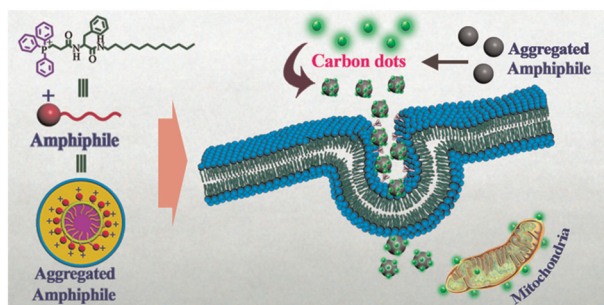
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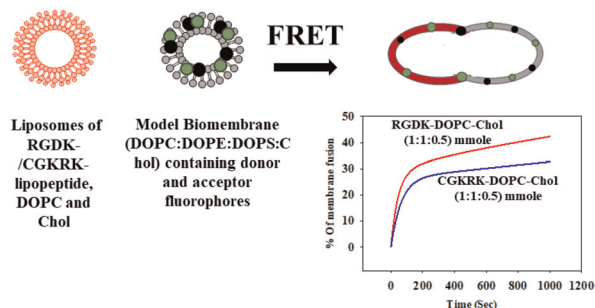
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Rapid targeting and imaging of mitochondria via carbon dots using an amino acid-based amphiphile as a carrier

Niladri Hazra, Reeddhi Ray and Arindam Banerjee*

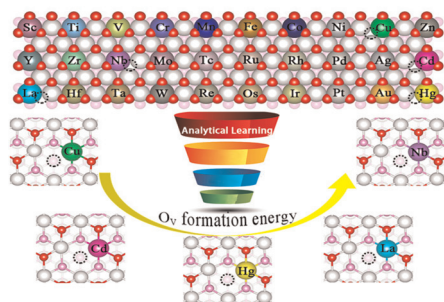
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Relative biomembrane fusogenicities of the tumor-selective liposomes of RGDK- and CGKRR-lipopeptides

Wahida Rahaman and Arabinda Chaudhuri*

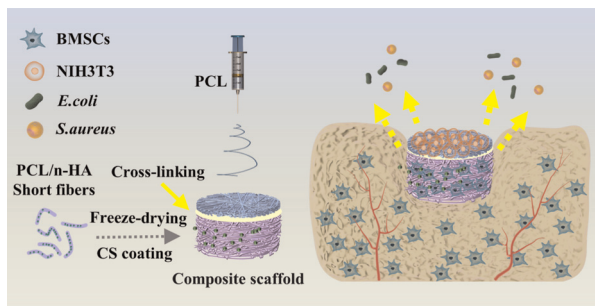
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Unraveling the formation of oxygen vacancies on the surface of transition metal-doped ceria utilizing artificial intelligence

Ning Xu, Liangliang Xu, Yue Wang, Wen Liu, Wenwu Xu,* Xiaojuan Hu* and Zhong-Kang Han*

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Xinyuan Deng, Chenghao Yu, Xiaopei Zhang, Xunmeng Tang, Qingxia Guo, Manfei Fu, Yuanfei Wang,* Kuanjun Fang* and Tong Wu*

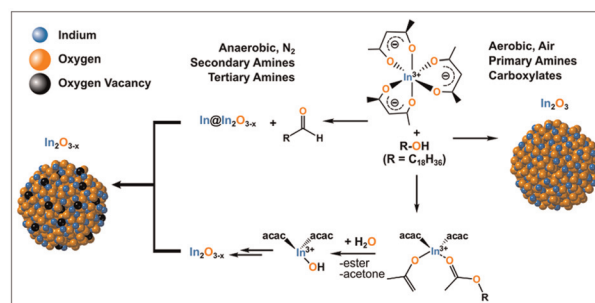


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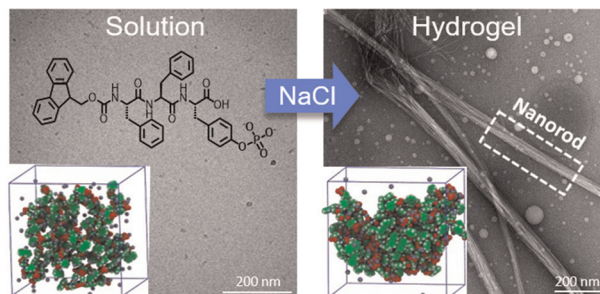
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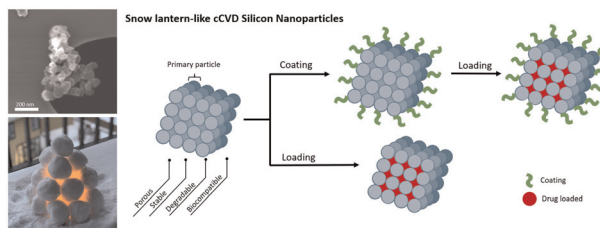
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Stable “snow lantern-like” aggregates of silicon nanoparticles suitable as a drug delivery platform

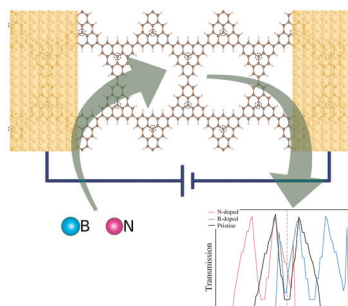
Hennie Marie Johnsen,* Seyedmehdi Hossaini Nasr, Ricardo De Luna, Werner Filtvedt, Michael J. Sailor, Jo Klaveness and Marianne Hiorth



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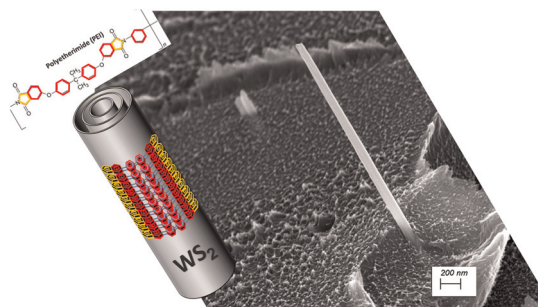
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Pedro Elias Priori Spalenza, Fábio Arthur Leão de Souza, Rodrigo G. Amorim, Ralph H. Scheicher* and Wanderlã Luis Scopel



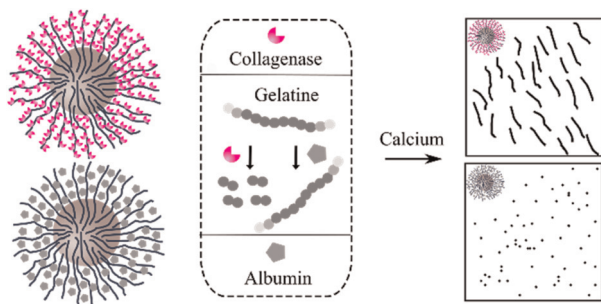
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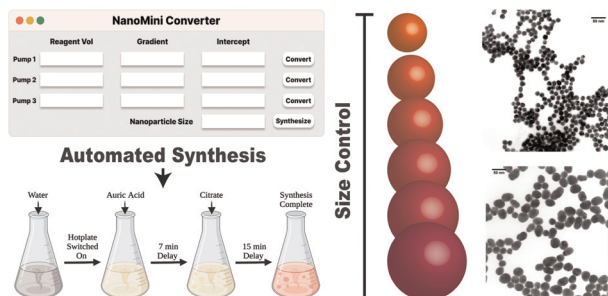
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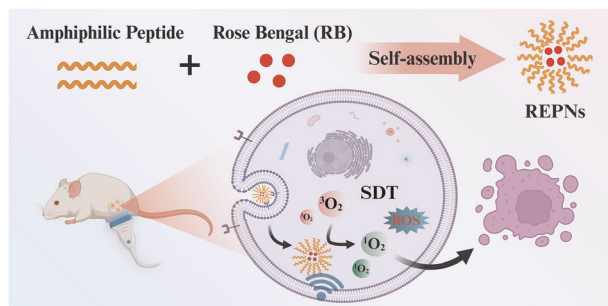
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**Integrin $\alpha_v\beta_3$ -targeted self-assembled polypeptide nanomicelles for efficacious sonodynamic therapy against breast cancer**

Xueli Ren, Yanxi Yang, Xinru Kong and Zhe Liu*

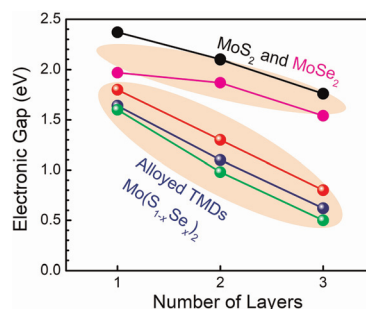


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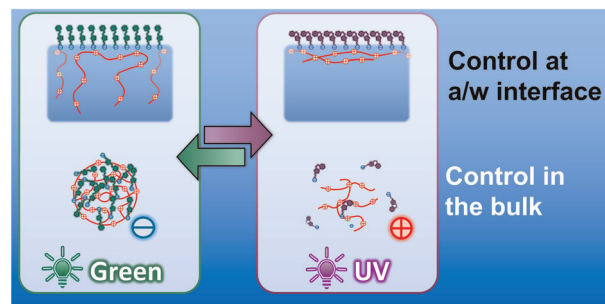
Arpan Bera, Biswajit Kundu and Amlan J. Pal*



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Photoresponsive arylazopyrazole surfactant/PDADMAC mixtures: reversible control of bulk and interfacial properties

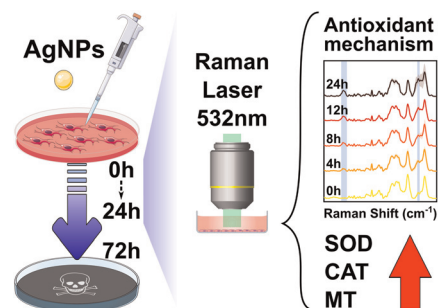
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Exploring the cellular antioxidant mechanism against cytotoxic silver nanoparticles: a Raman spectroscopic analysis

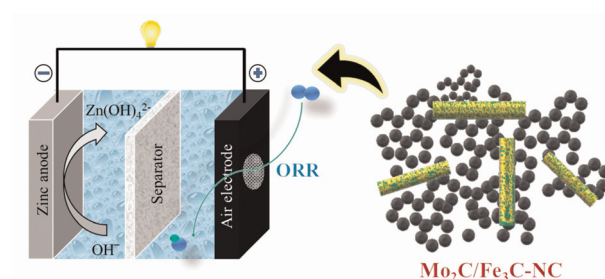
Davide Redolfi-Bristol*, Kenta Yamamoto, Elia Marin, Wenliang Zhu, Osam Mazda, Pietro Riello and Giuseppe Pezzotti*



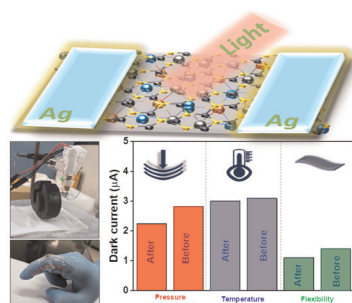
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Sagar Ingavale, Mohan Gopalakrishnan, Phiralang Marbaniang, Woranunt Lao-atiman, Ahmad Azmin Mohamad, Mai Thanh Nguyen, Tetsu Yonezawa, Anita Swami* and Soorathep Kheawhom*



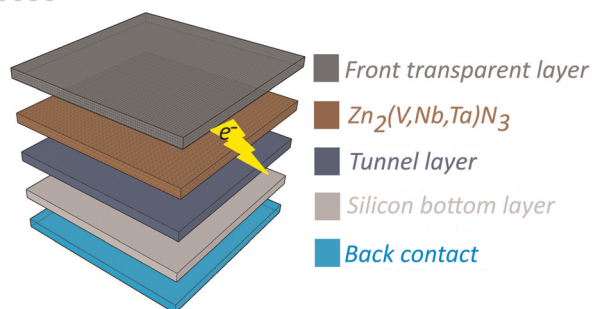
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Fabrication of a wearable and foldable photodetector based on a WSe₂-MXene 2D–2D heterostructure using a scalable handprint technique

Rahul P. Patel, Parth V. Shah, Sohel Siraj, Parikshit Sahatiya, Pratik M. Pataniya and C. K. Sumesh*

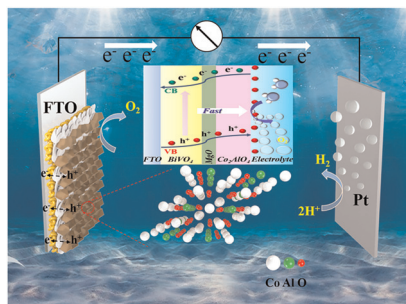
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Carrier transport in bulk and two-dimensional Zn₂(V,Nb,Ta)N₃ ternary nitrides

Igor V. Kosarev and Andrey A. Kistanov*

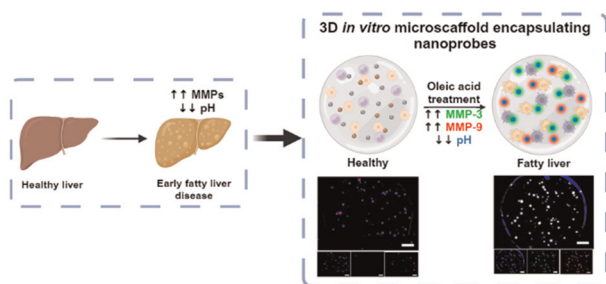
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An MgO passivation layer and hydrotalcite derived spinel Co₂AlO₄ synergistically promote photoelectrochemical water oxidation conducted using BiVO₄-based photoanodes

Jing Zhang, Kaiyi Chen, Yan Bai, Lei Wang, Jingwei Huang, Houde She and Qizhao Wang*

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3D microscaffolds with triple-marker sensitive nanoprobe for studying fatty liver disease *in vitro*

Simran Kaur Rainu and Neetu Singh*

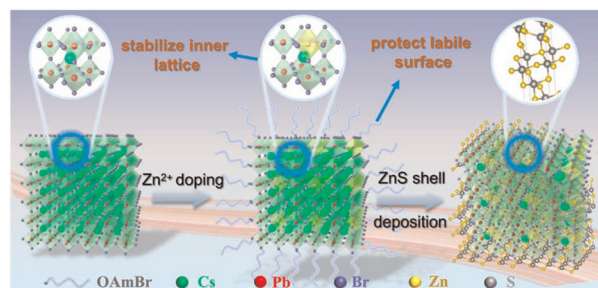


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CsZnPbBr₃/ZnS core/shell perovskite nanocrystals for stable and efficient white light-emitting diodes

Hai Zhou, Sheng Wang,* Haihui Wang, Lin Wang, Jiayi Chen, Guohua Jia and Xuyong Yang*



CORRECTION

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Correction: α -Fe₂O₃/TiO₂ 3D hierarchical nanostructures for enhanced photoelectrochemical water splitting

Hyungkyu Han, Francesca Riboni, Frantisek Karlicky, Stepan Kment, Anandarup Goswami, Pitchaimuthu Sudhagar, Jeongeun Yoo, Lei Wang, Ondrej Tomanec, Martin Petr, Ondrej Haderka, Chiaki Terashima, Akira Fujishima, Patrik Schmuki* and Radek Zboril*

