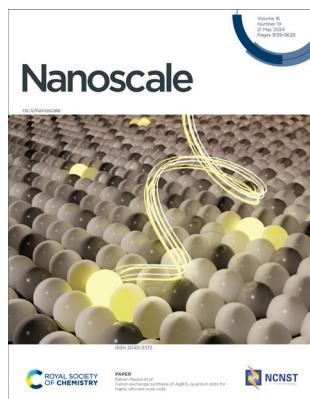


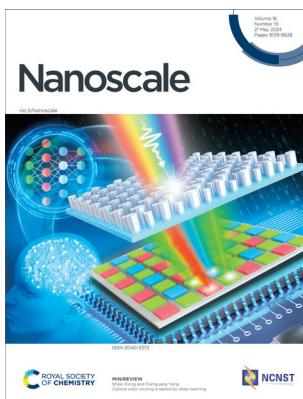
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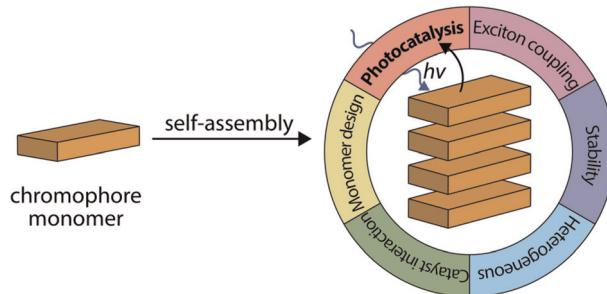
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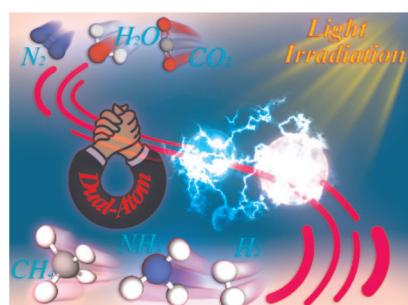
David Cappelletti, Marianna Barbieri, Alessandro Aliprandi, Michele Maggini and Luka Đorđević\*



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Jinting Wu, Haoming Zhong, Zhen-Feng Huang, Ji-Jun Zou, Xiangwen Zhang, Yong-Chao Zhang\* and Lun Pan\*





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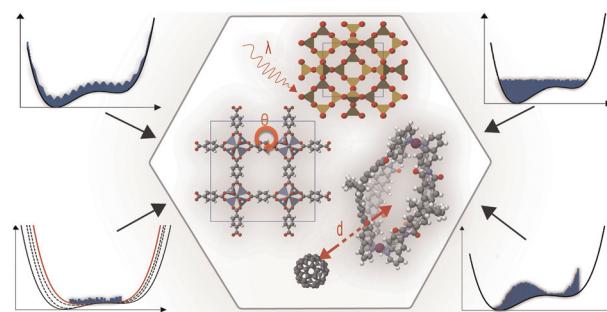


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**The use of collective variables and enhanced sampling in the simulations of existing and emerging microporous materials**

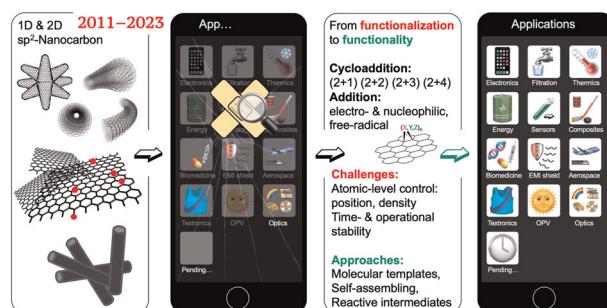
Konstantin Stracke and Jack D. Evans\*



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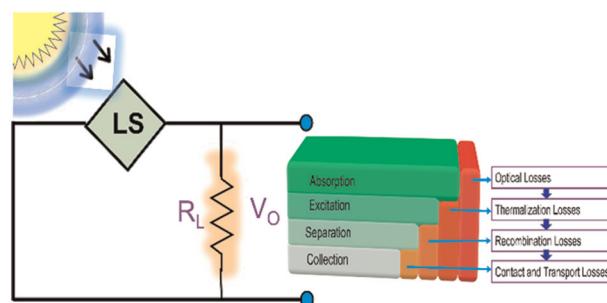
Zunaira Amjad, Artur P. Terzyk and Sławomir Boncel\*



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**Self-powered photodetectors: a device engineering perspective**

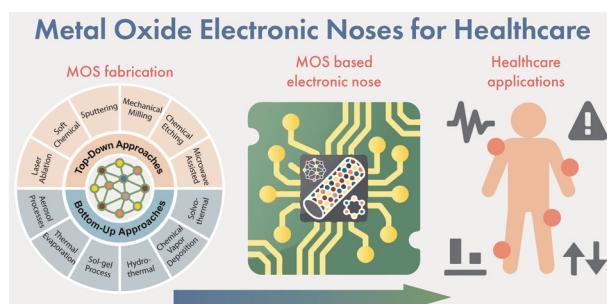
Varun Goel, Yogesh Kumar, Gopal Rawat and Hemant Kumar\*



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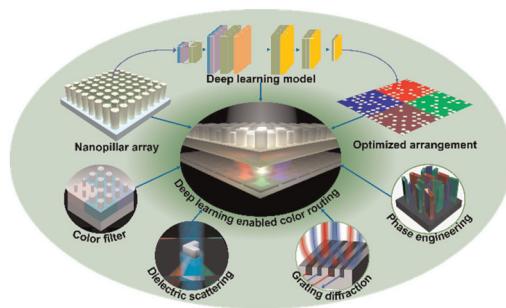
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Zain Ul Abideen,\* Waqas Ul Arifeen and Y. M. Nuwan D. Y. Bandara



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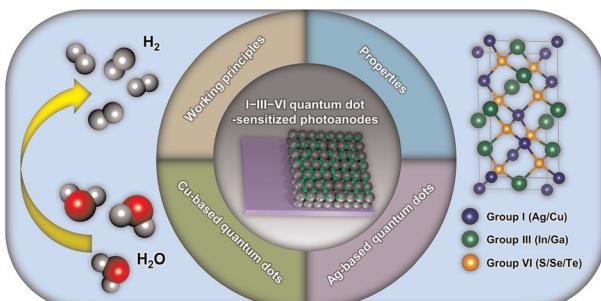
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## Optical color routing enabled by deep learning

Shijie Xiong and Xianguang Yang\*

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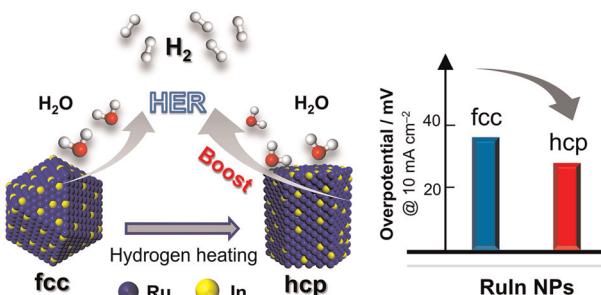


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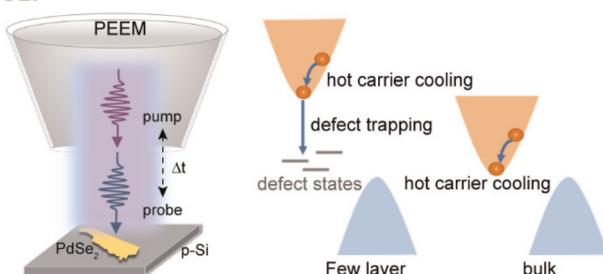
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## Phase control of solid-solution RuIn nanoparticles and their catalytic properties

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## Layer-dependent ultrafast carrier dynamics of PdSe₂ investigated by photoemission electron microscopy

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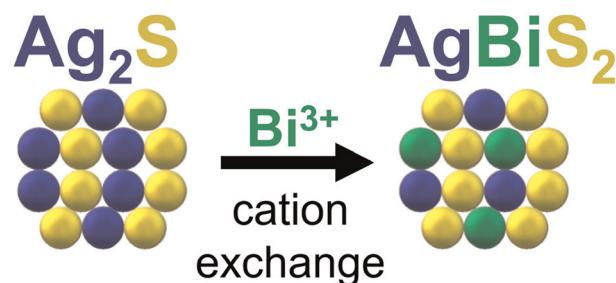


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## Cation exchange synthesis of $\text{AgBiS}_2$ quantum dots for highly efficient solar cells

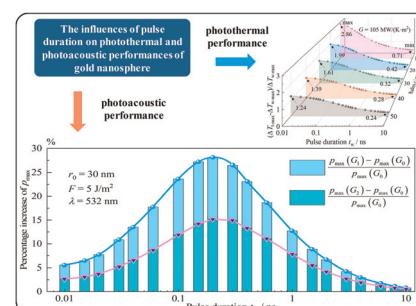
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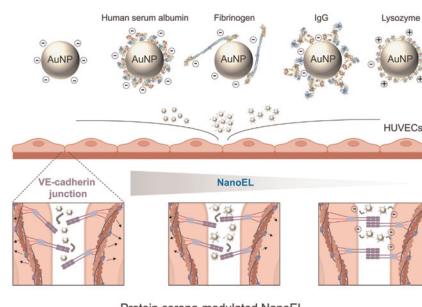
Yukun Ji, Jianping Sun, Yatao Ren,\* Hong Qi and Renxi Gao\*



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## Controlling nanoparticle-induced endothelial leakiness with the protein corona

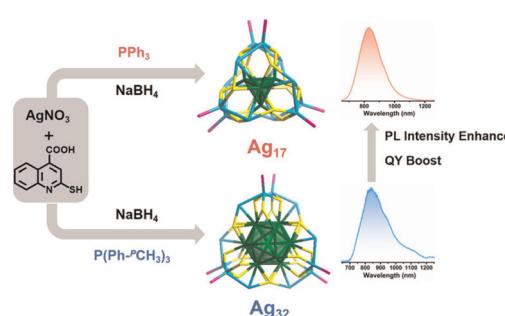
Aparna Nandakumar, Huayuan Tang, Nicholas Andrikopoulos, John F. Quinn, Feng Ding,\* Pu Chun Ke\* and Yuhuan Li\*



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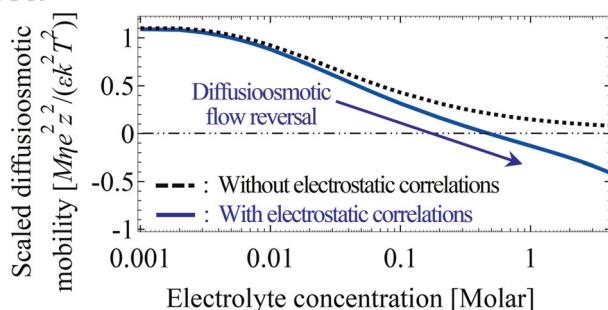
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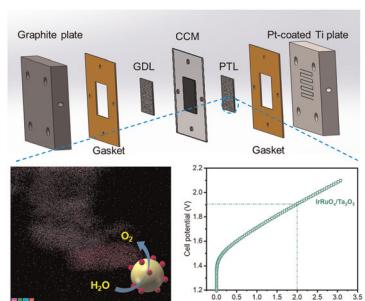


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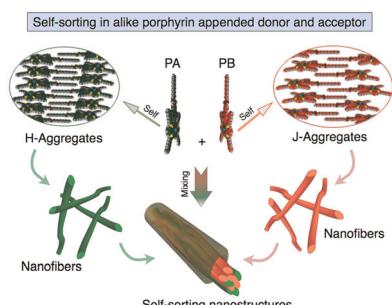
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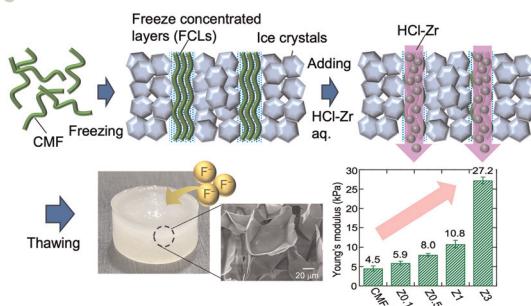
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## Diffusioosmotic flow reversals due to ion–ion electrostatic correlations

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An  $\text{IrRuO}_x$  catalyst supported by oxygen-vacant  $\text{Ta}$  oxide for the oxygen evolution reaction and proton exchange membrane water electrolysis

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Narcissistic self-sorting in  $\text{Zn}(\text{II})$  porphyrin derived semiconducting nanostructures

Yelukula Ramakrishna, Madarapu Naresh, Madoori Mrinalini,\* Nagadatta Pravallika, Priti Kumari, Botta Bhavani, Lingamallu Giribabu and Seelam Prasanthkumar\*

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Yurina Sekine,\* Takuya Nankawa, Tsuyoshi Sugita, Yoshiyasu Nagakawa, Yuki Shibayama, Ryuhei Motokawa and Tomoko Ikeda-Fukazawa

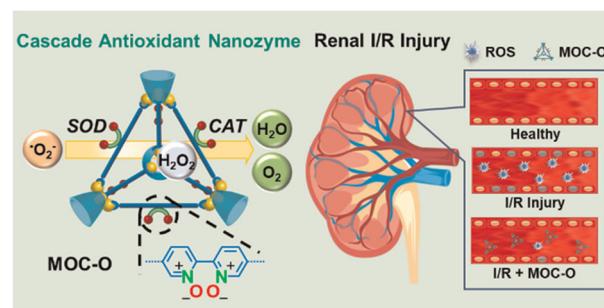


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## A metal–organic cage-derived cascade antioxidant nanzyme to mitigate renal ischemia-reperfusion injury

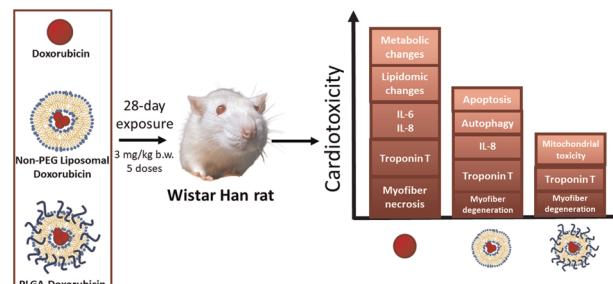
Cheng Huang, Yucen Deng, Rongze Ma, Hucheng Ge, Fuzhong Gong,\* Jinghui Yang,\* Xinyuan Zhu and Youfu Wang\*



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## Novel PLGA-based nanoformulation decreases doxorubicin-induced cardiotoxicity

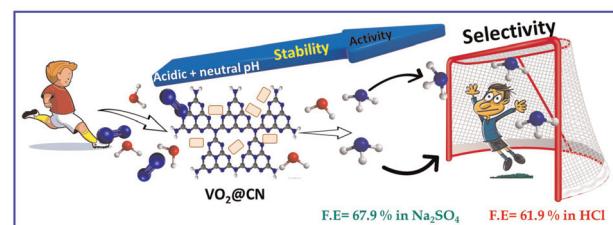
Nikša Drinković, Maja Beus, Rinea Barbir, Željko Debeljak, Blanka Tariba Lovaković, Nikolina Kalčec, Marija Ćurlin, Ana Bekavac, Dunja Gorup, Ivan Mamić, Dario Mandić, Vedran Micek, Petra Turčić, Nazende Günday-Türeli, Emre Türeli and Ivana Vinković Vrček\*



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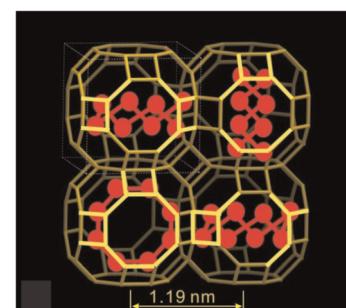
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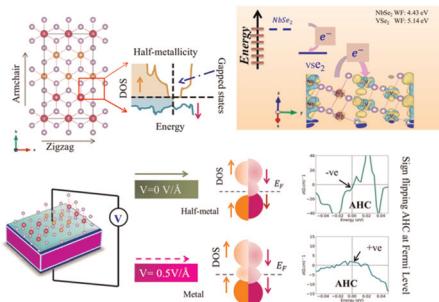
## Optical study of Te<sub>8</sub> ring clusters: comparison with density functional theory and a step towards materials design using nanoporous zeolite space

Vladimir Poborchii\* and Dmitrij Rappoport



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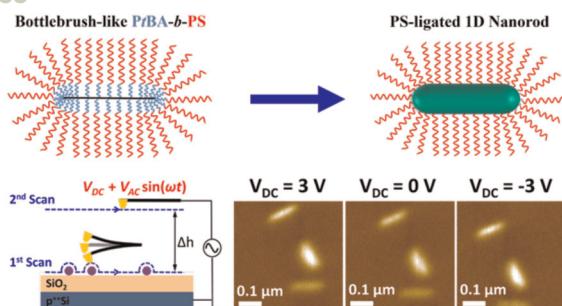
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### Sign-flipping intrinsic anomalous Hall conductivity with Berry curvature tunability in a half-metallic ferromagnet NbSe<sub>2</sub>-VSe<sub>2</sub> lateral heterostructure

Saransha Mohanty and Pritam Deb\*

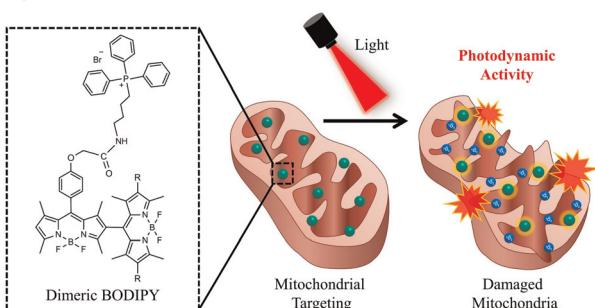
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### Improved electronic uniformity and nanoscale homogeneity in template-grown CsPbBr<sub>3</sub> nanorods

Eduardo Avila-Lopez, Shuang Liang, Isaac Elias, Zhiqun Lin\* and Yize Stephanie Li\*

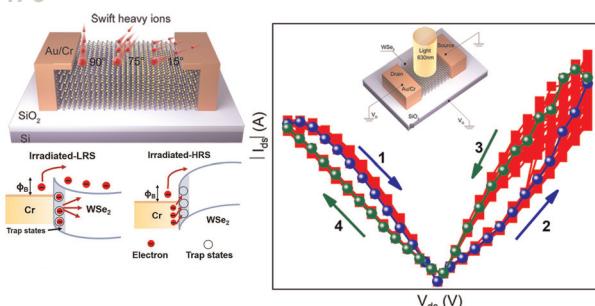
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Chanwoo Kim, Duy Khuong Mai, Joomin Lee, Jinwoong Jo, Soyeon Kim, Isabel Wen Badon, Jong Min Lim,\* Ho-Joong Kim\* and Jaesung Yang\*

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### Schottky barrier reduction on optoelectronic responses in heavy ion irradiated WSe<sub>2</sub> memtransistors

Shengxia Zhang,\* Lijun Xu, Shifan Gao, Peipei Hu, Jiande Liu, Jian Zeng, Zongzhen Li, Pengfei Zhai, Li Liu, Li Cai and Jie Liu\*

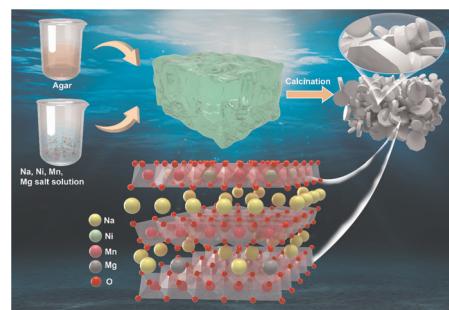


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**A dual strategy of  $\text{Na}^+$ /vacancy disorder and high Na to construct a P2-type cathode for high-stability sodium-ion batteries**

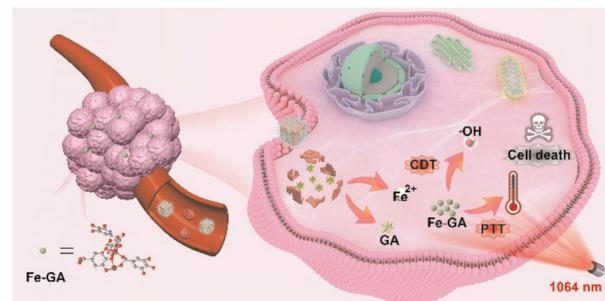
Lei Geng, Lan Wu,\* Hongjie Tan, Meng Wang, Zhe Liu, Lianshan Mou, Yongjian Shang, De Yan and Shanglong Peng\*



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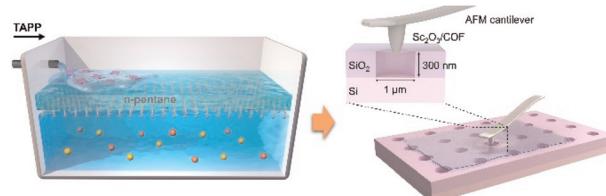
Xing Yang, Chunsheng Li, Shuang Liu, Yunlong Li, Xinyu Zhang, Qiang Wang, Jin Ye, Yong Lu, Yujie Fu and Jiating Xu\*



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**A wafer scale thin film of ultra-small  $\text{Sc}_2\text{O}_3$  nanocrystals on a 2D COF with high rigidity**

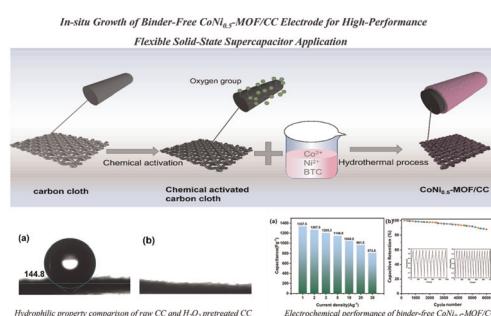
Xin Guan, Xiaohui Xu, Zhongliang Yu, Junjie Xiong, Yanhong Chang,\* Bowen Liu\* and Bin Wang\*



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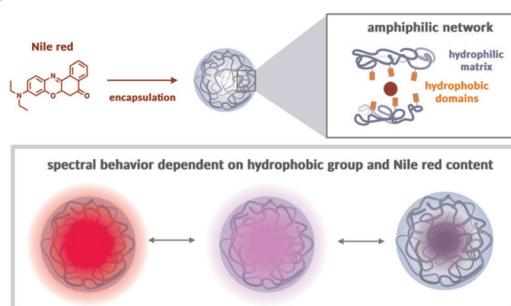
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Weijie Zhang, Zhen Cao, Yuying Li, Ruiting Li, Yanmei Zheng, Ping Su and Xinli Guo\*



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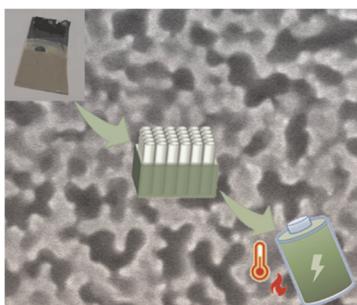
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### Optically monitoring the microenvironment of a hydrophobic cargo in amphiphilic nanogels: influence of network composition on loading and release

Clara López-Iglesias, Ante Markovina, Nithiya Nirmalananthan-Budau, Ute Resch-Genger\* and Daniel Klinger\*

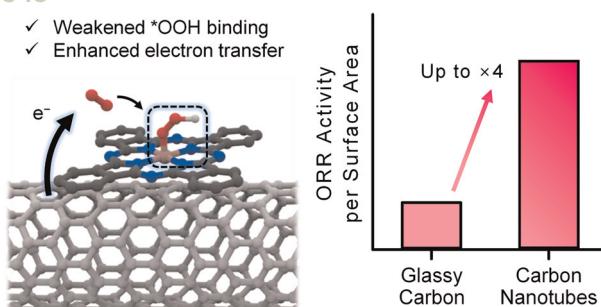
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### Silicon carbide single crystals for high-temperature supercapacitors

Chang Liang, Shouzhi Wang,\* Ge Tian, Songyang Lv, Guodong Wang, Xuejian Xie,\* Lili Li, Xiangang Xu, Guangxia Liu and Lei Zhang\*

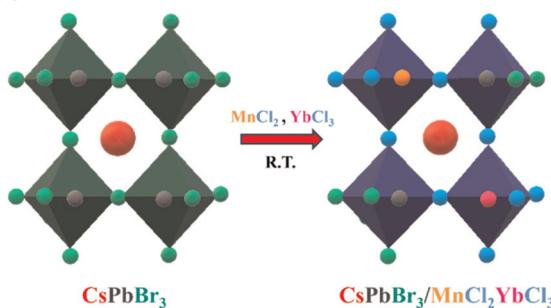
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### Electronic structure modification of metal phthalocyanines by a carbon nanotube support for efficient oxygen reduction to hydrogen peroxide

Yesol Lee, Chaehyeon Lee, Seoin Back\* and Young Jin Sa\*

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### Halide exchange mediated cation exchange facilitates room temperature co-doping of d-and f-block elements in cesium lead halide perovskite nanoparticles

Jomy Jose Philip, Gouranga H. Debnath,\* David H. Waldeck\* and R. Geetha Balakrishna\*

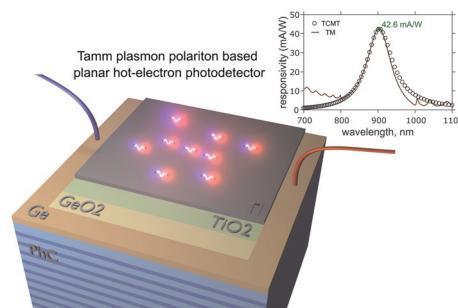


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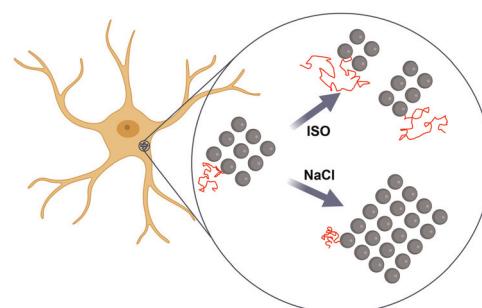
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**Single-molecule imaging of aquaporin-4 array dynamics in astrocytes**

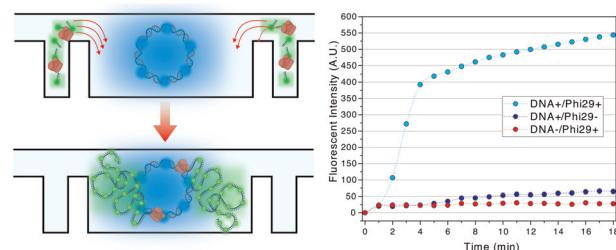
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**Tunable nanofluidic device for digital nucleic acid analysis**

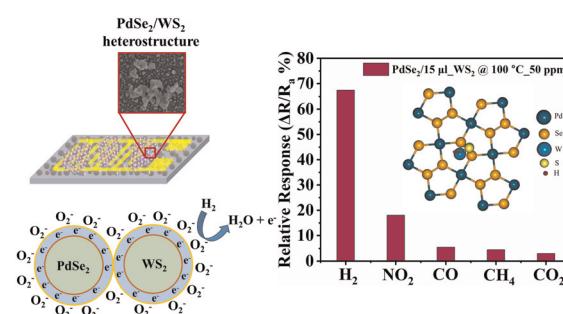
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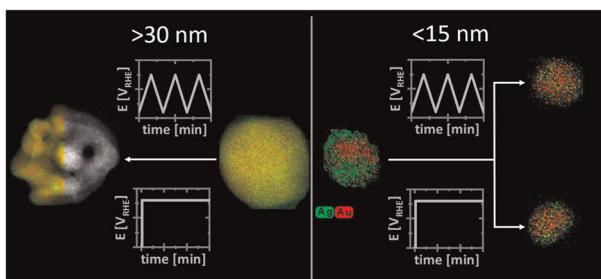
**Catalytic synergy of WS<sub>2</sub>-anchored PdSe<sub>2</sub> for highly sensitive hydrogen gas sensor**

Suresh Kumar, Ashok Kumar, Amit Kumar, Atul G. Chakkar, Atanu Betal, Pradeep Kumar, Satyajit Sahu\* and Mahesh Kumar\*



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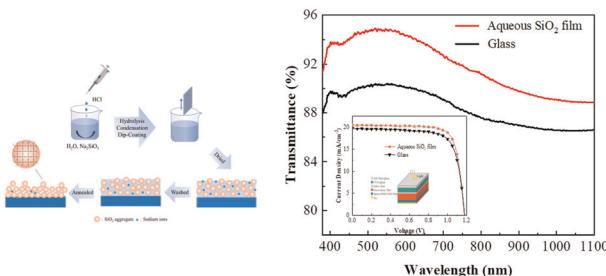
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### Tuning the morphology and chemical distribution of Ag atoms in Au rich nanoparticles using electrochemical dealloying

Alexandra Dworzak, Paul Paciok, Christoph Mahr, Marc Heggen, Carsten Dosche, Andreas Rosenauer and Mehtap Oezaslan\*

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### Facile preparation of a water-based antireflective SiO<sub>2</sub> film with high transmittance for perovskite solar cells

Xuemin Zhang, Ziao Wang, Peiran Hou, Senwei Wu, Jianfeng Lu, Xujian Zhao and Shouqin Tian\*

## CORRECTION

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### Correction: Magnetic aerogels from FePt and CoPt<sub>3</sub> directly from organic solution

L. Schoske, F. Lübkemann-Warwas, I. Morales, C. Wesemann, J. G. Eckert, R. T. Graf and N. C. Bigall\*

