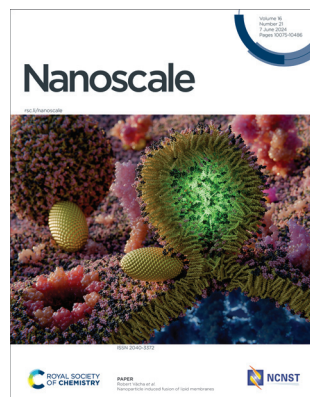


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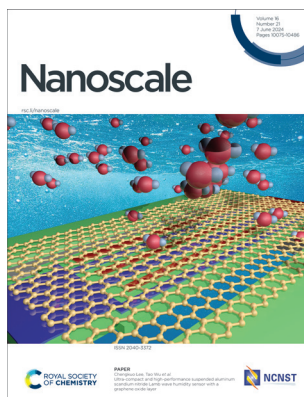
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Cover

See Robert Vácha *et al.*, pp. 10221–10229.

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Inside cover

See Chengkuo Lee, Tao Wu *et al.*, pp. 10230–10238.

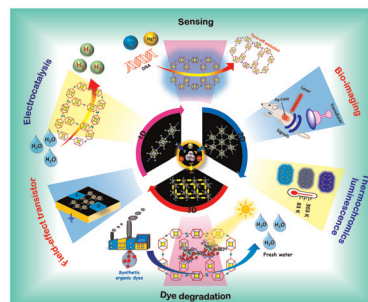
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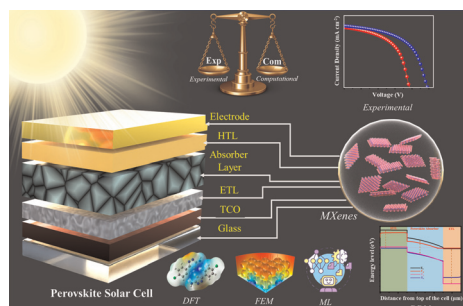
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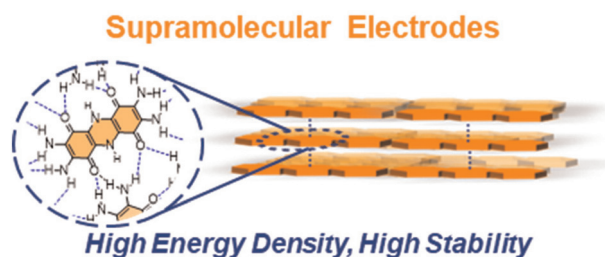
**Fundamental questions
Elemental answers**

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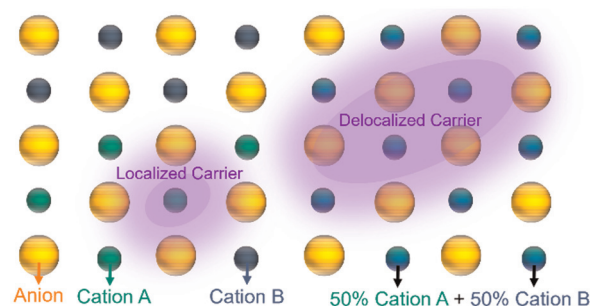
Ani N. Davis, Kausturi Parui, Megan M. Butala and Austin M. Evans*



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Tuning the optoelectronic properties of emerging solar absorbers through cation disorder engineering

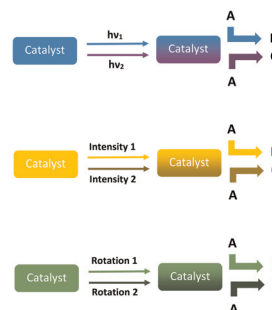
Yi-Teng Huang and Robert L. Z. Hoyer*



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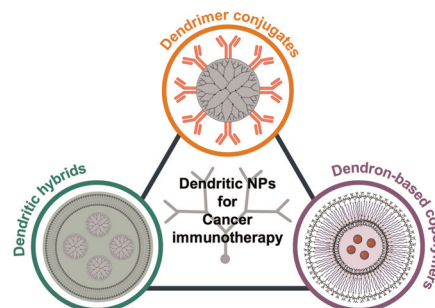
Bayan G. D. Peelikuburage, Wayde N. Martens and Eric R. Waclawik*



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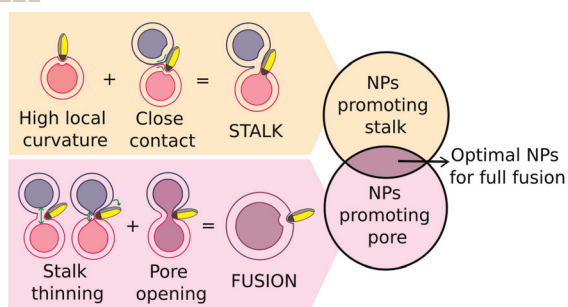
Dendritic nanoparticles for immune modulation: a potential next-generation nanocarrier for cancer immunotherapy

DaWon Kim, Kaila Javius-Jones, Narsimha Mamidi and Seungpyo Hong*



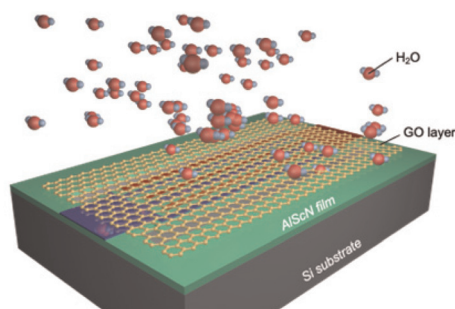
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**Nanoparticle induced fusion of lipid membranes**

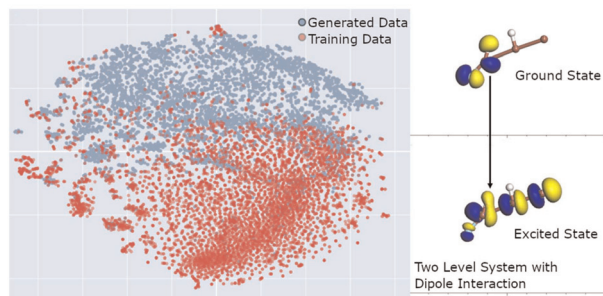
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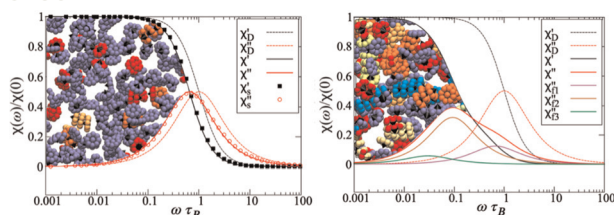
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Robert Tempke and Terence Musho*

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**Structure and dynamics in suspensions of magnetic platelets**

Margaret Rosenberg,* Sofia S. Kantorovich, Alexey O. Ivanov and Philip J. Camp

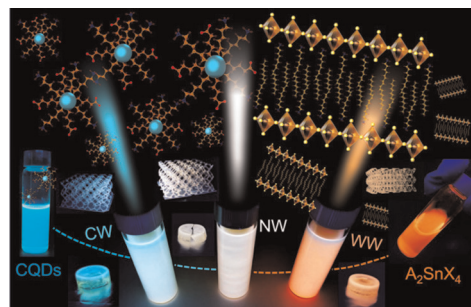


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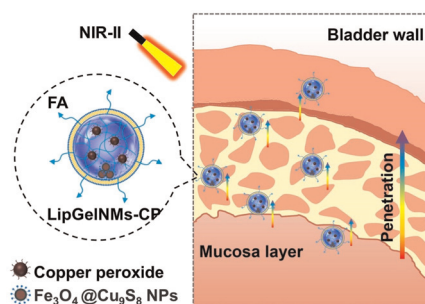
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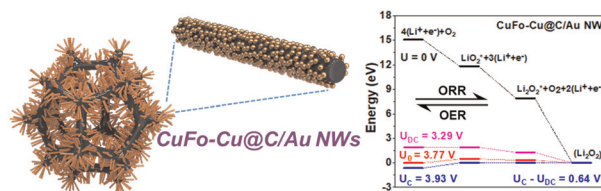
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Multi-functional integrated design of a copper foam-based cathode for high-performance lithium–oxygen batteries

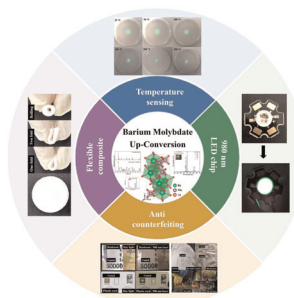
Jing Lan, Yuran Yu, Fujun Miao,* Peng Zhang* and Guosheng Shao*



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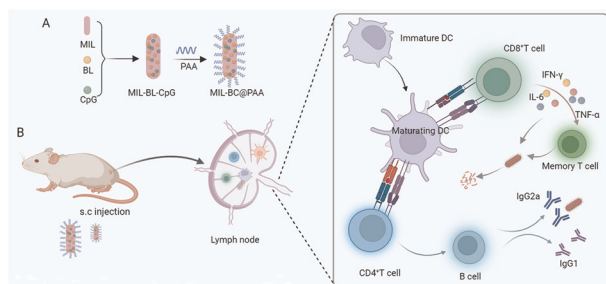
Barium molybdate up-conversion nanoscale particles with IR-LED chip, temperature sensing, and anti-counterfeiting applications

Jae Yong Jung, Jin Young Park, Soung Soo Yi and Hyun Kyoung Yang*



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Lingming Chen, Shuai Liu, Yunting Zhang, Qiling Tang, Chunyu Quan, Jundan Wang, Xinsheng Peng and Xiaofang Zhong*

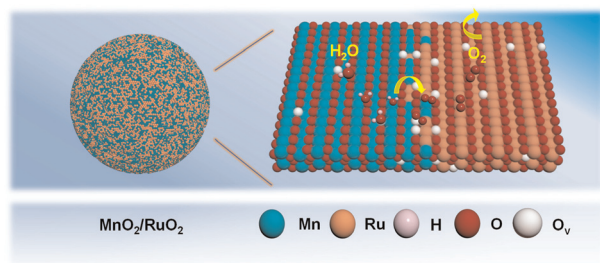
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An insight, at the atomic level, into the structure and catalytic properties of the isomers of the Cu₂₂ cluster

Huimin Zhou, Tao Yang, Huijuan Deng, Yapei Yun, Shan Jin,* Lin Xiong* and Manzhou Zhu*

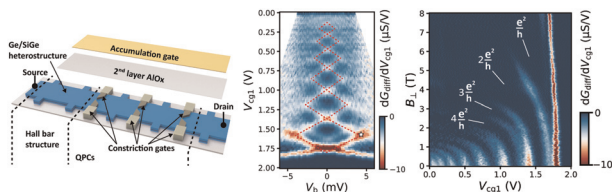
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Heterointerface MnO₂/RuO₂ with rich oxygen vacancies for enhanced oxygen evolution in acidic media

Zhiming Guan, Qian Chen, Lin Liu, Chenghui Xia,* Lixin Cao* and Bohua Dong*

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Gate-defined quantum point contacts in a germanium quantum well

Han Gao, Zhen-Zhen Kong, Po Zhang, Yi Luo, Haitian Su, Xiao-Fei Liu, Gui-Lei Wang,* Ji-Yin Wang* and H. Q. Xu*

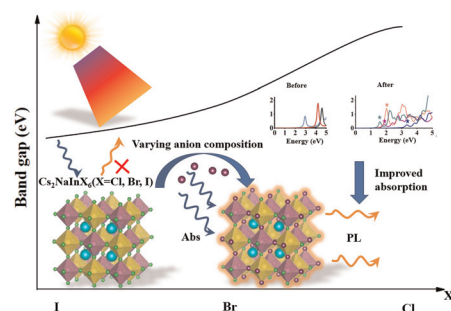


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Modulating luminescence through anion variation in lead-free $\text{Cs}_2\text{NaInX}_6$ ($\text{X} = \text{Cl}, \text{Br}, \text{and I}$) perovskites: a first-principles study

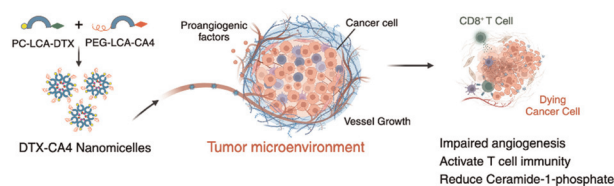
Desheng Yin, Zhenren Gao,* Changfu Xu, Pengbo Lyu* and Lizhong Sun*



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Engineered nanomicelles targeting proliferation and angiogenesis inhibit tumour progression by impairing the synthesis of ceramide-1-phosphate

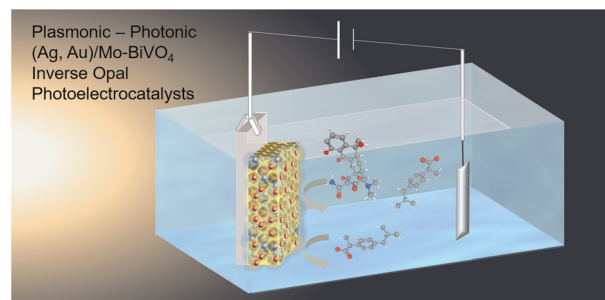
Poonam Yadav, Kajal Rana, Ruchira Chakraborty, Ali Khan, Devashish Mehta, Dolly Jain, Bharti Aggarwal, Somesh K. Jha, Ujjaini Dasgupta and Avinash Bajaj*



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Light concentration and electron transfer in plasmonic–photonic Ag,Au modified Mo-BiVO_4 inverse opal photoelectrocatalysts

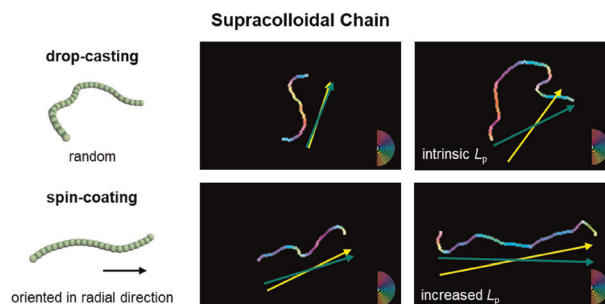
Martha Pylarinou, Elias Sakellis, Polychronis Tsipas, Spiros Gardelis, Vassilis Psycharis, Athanasios Dimoulas, Thomas Stergiopoulos and Vlassis Likodimos*



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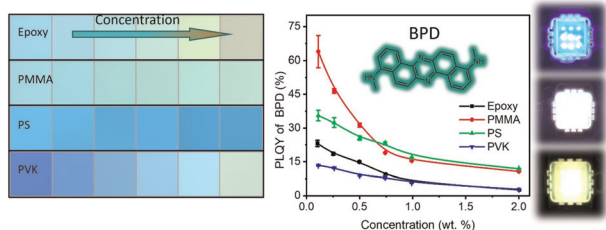
Orientation and stretching of supracolloidal chains of diblock copolymer micelles by spin-coating process

Jaemin Kim, Kyunghyeon Lee, Sangyoon Kim and Byeong-Hyeok Sohn*



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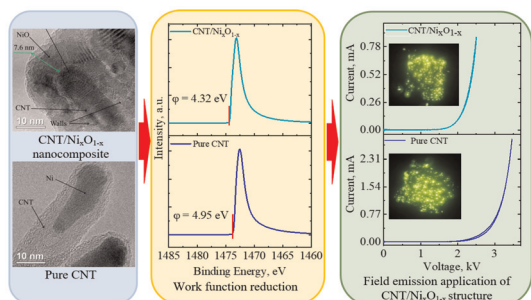
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High solid-state photoluminescence quantum yield of carbon-dot-derived molecular fluorophores for light-emitting devices

Nasir Javed,* Haydee Pacheco, Sneha Sreekumar, Jinyu Chong, Zhongkai Cheng and Deirdre M. O'Carroll*

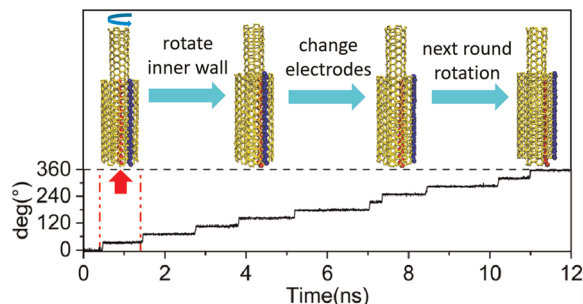
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Reducing and tuning the work function of field emission nanocomposite CNT/NiO cathodes by modifying the chemical composition of the oxide

Maksim A. Chumak,* Eugeni O. Popov, Sergei V. Filippov, Anatoly G. Kolosko, Demid A. Kirilenko, Nikolay A. Bert, Evgeniy V. Zhizhin, Alexandra V. Koroleva, Ilya S. Yezhov and Maxim Yu. Maximov

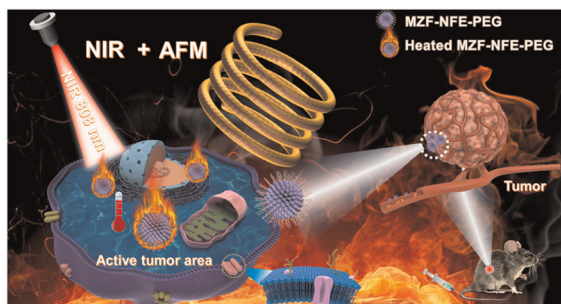
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Actuation mechanism of a nanoscale drilling rig based on nested carbon nanotubes

Wei Si,* Haonan Chen, Xiaojing Lin, Gensheng Wu, Jiajia Zhao and Jingjie Sha

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NIR and magnetism dual-response multi-core magnetic vortex nanoflowers for boosting magneto-photothermal cancer therapy

Kaiming Shen, Lixian Li,* Funan Tan, Calvin Ching lan Ang, Tianli Jin, Zongguo Xue, Shuo Wu, Mun Yin Chee, Yunfei Yan* and Wen Siang Lew*

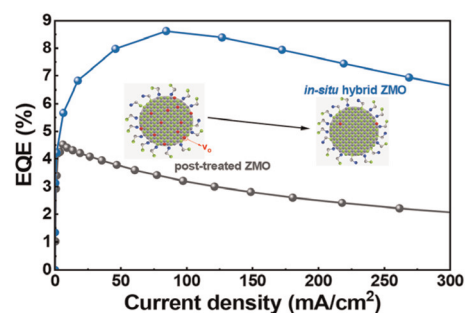


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Blue ZnSeTe quantum dot light-emitting diodes with low efficiency roll-off enabled by an *in situ* hybridization of ZnMgO nanoparticles and amino alcohol molecules

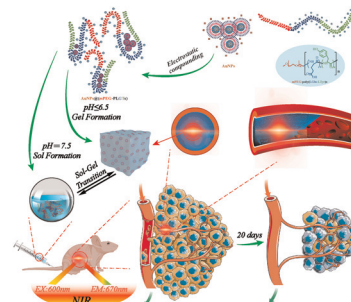
Shaolin Ma, Fan Cao, Guohua Jia, Qianqian Wu,*
Sheng Wang* and Xuyong Yang*



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The biological response of pH-switch-based gold nanoparticle-composite polyamino acid embolic material

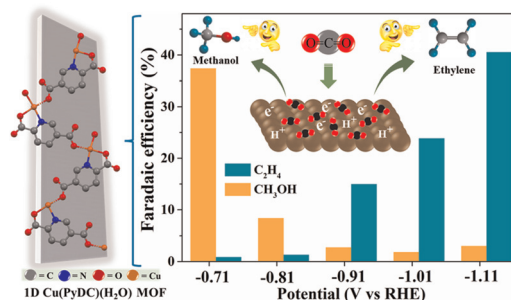
Feng Yang, Shiwen Gong, Die Hu, Lihua Chen,
Wenyuan Wang, Bo Cheng, Jing Yang, Binbin Li* and
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Electrochemical reconstruction of a 1D Cu(PyDC)(H₂O) MOF into *in situ* formed Cu–Cu₂O heterostructures on carbon cloth as an efficient electrocatalyst for CO₂ conversion

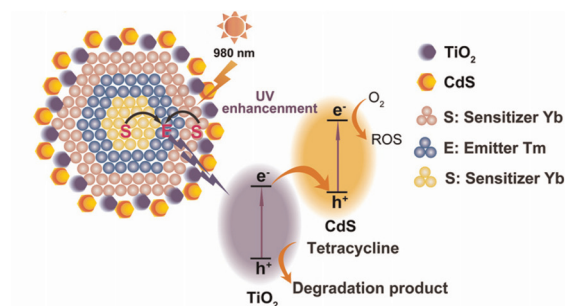
Manjunatha Kempasiddaiah, Rajib Samanta,
Sonali Panigrahy, Ravi Kumar Trivedi,
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Luminescence enhancement through co-sensitization in lanthanide composites for efficient photocatalysis

Langtao Ren, Qing Zhao, Yan Su, Mingzhu Zhou* and
Qianqian Su*



CORRECTION

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Correction: Promoter-regulated *in vivo* asymmetric self-assembly strategy to synthesize heterogeneous nanoparticles for signal amplification

Chen Chen, Juan Zhou, Dong Men* and Xian-En Zhang*

