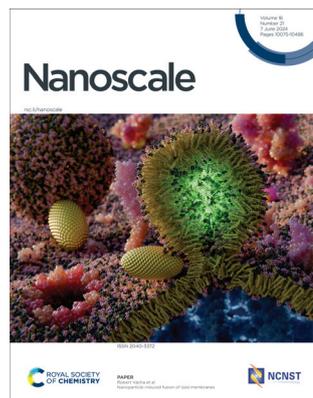


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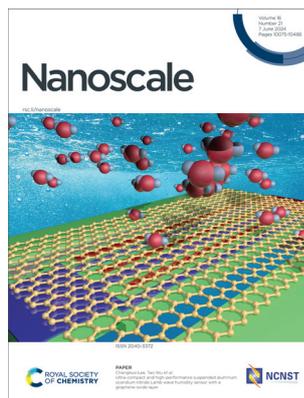
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Cover

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

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Inside cover

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

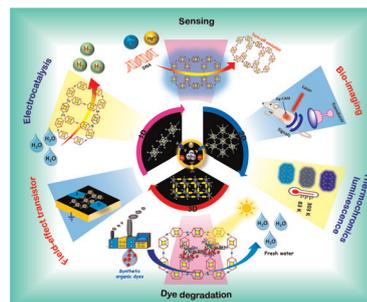
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Recent progress in atomically precise silver nanocluster-assembled materials

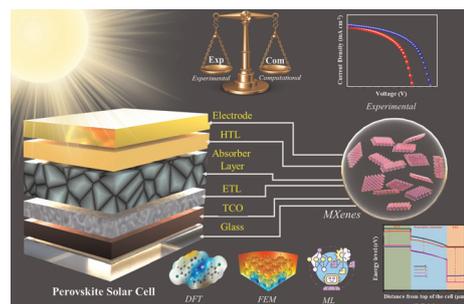
Noohul Alam, Anish Kumar Das, Priyanka Chandrashekar, Priyadarshini Baidya and Sukhendu Mandal*



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The dawn of MXene duo: revolutionizing perovskite solar cells with MXenes through computational and experimental methods

Sathish Marimuthu, Arunkumar Prabhakaran Shyma, Shriswaroop Sathyanarayanan, Tamilselvi Gopal, Jaimson T. James, Suruthi Priya Nagalingam, Bharath Gunaseelan, Sivasri Babu, Raja Sellappan* and Andrews Nirmala Grace*



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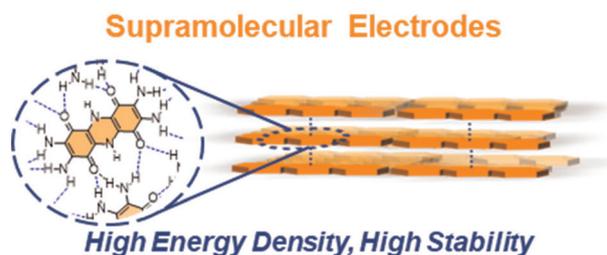
Fundamental questions
Elemental answers

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Supramolecular design as a route to high-performing organic electrodes

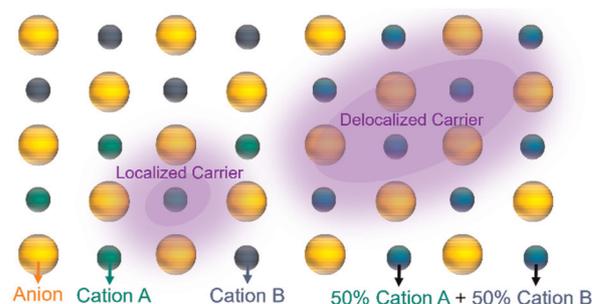
Ani N. Davis, Kausturi Parui, Megan M. Butala and Austin M. Evans*



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

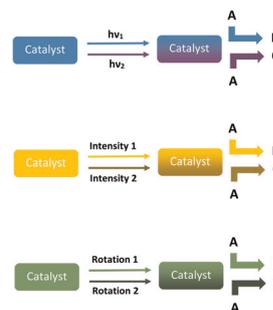
Yi-Teng Huang and Robert L. Z. Hoye*



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Light switching for product selectivity control in photocatalysis

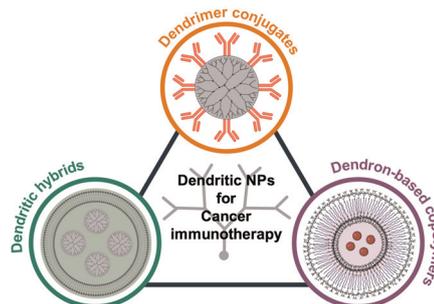
Bayan G. D. Peelikuburage, Wayde N. Martens and Eric R. Waclawik*



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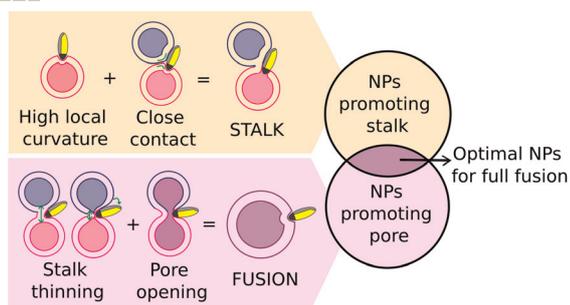
Dendritic nanoparticles for immune modulation: a potential next-generation nanocarrier for cancer immunotherapy

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



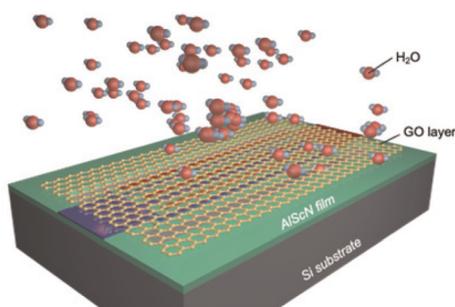
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**Nanoparticle induced fusion of lipid membranes**

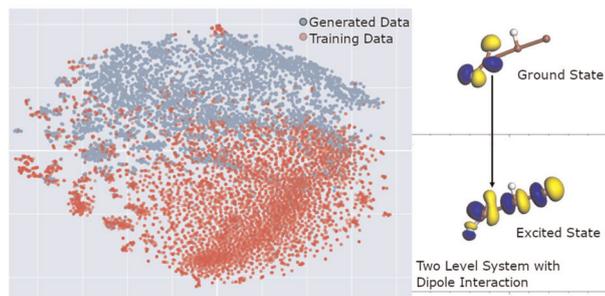
Sofía Blasco, Lukáš Sukeník and Robert Vácha*

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**Ultra-compact and high-performance suspended aluminum scandium nitride Lamb wave humidity sensor with a graphene oxide layer**

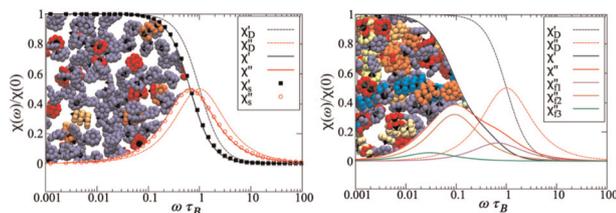
Zhifang Luo, Dongxiao Li, Xianhao Le, Tianyiyi He, Shuai Shao, Qiaoya Lv, Zhaojun Liu, Chengkuo Lee* and Tao Wu*

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**Autonomous generation of single photon emitting materials**

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

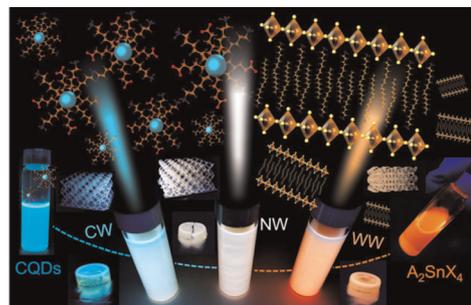


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Enabling white color tunability in complex 3D-printed composites by using lead-free self-trapped exciton 2D perovskite/carbon quantum dot inks

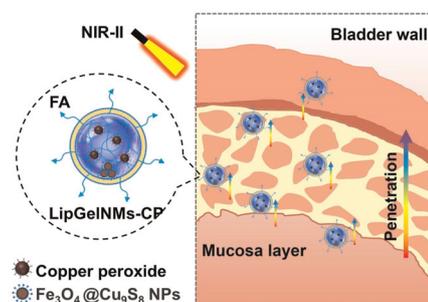
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NIR-II light powered hydrogel nanomotor for intravesical instillation with enhanced bladder cancer therapy

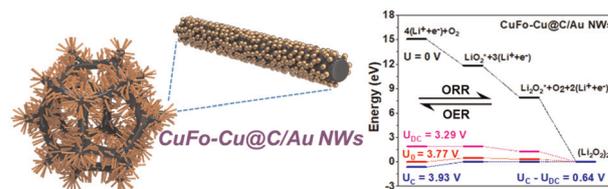
Wei Chen, Yingfei Wang, Hao Hu, Yu Zhu, Hongxia Zhao, Jie Wu, Huangxian Ju, Qing Zhang,* Hongqian Guo* and Ying Liu*



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

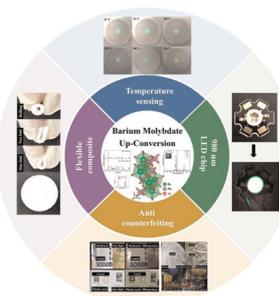
Jing Lan, Yuran Yu, Fujun Miao,* Peng Zhang* and Guosheng Shao*



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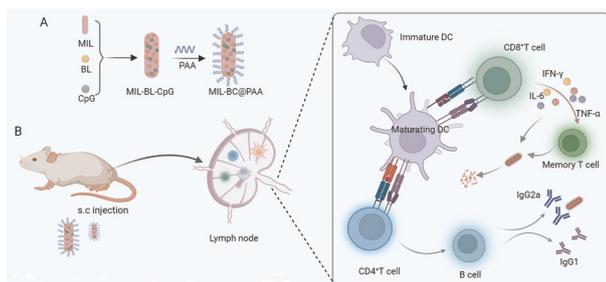
Barium molybdate up-conversion nanoscale particles with IR-LED chip, temperature sensing, and anti-counterfeiting applications

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



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Palmitic acid-capped MIL-101-Al as a nano-adjuvant to amplify immune responses against *Pseudomonas aeruginosa*

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

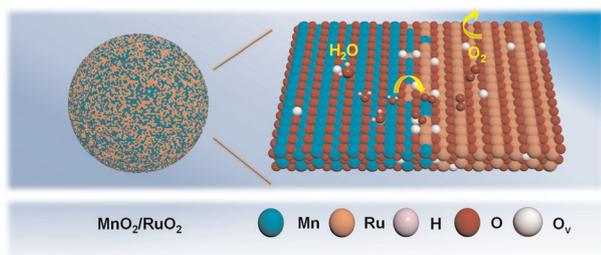
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An insight, at the atomic level, into the structure and catalytic properties of the isomers of the Cu₂₂ cluster

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

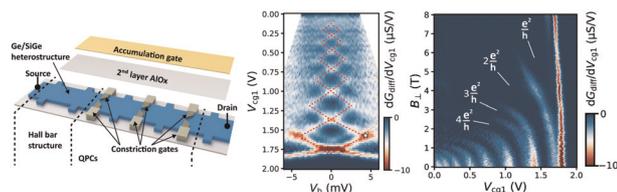
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Heterointerface MnO₂/RuO₂ with rich oxygen vacancies for enhanced oxygen evolution in acidic media

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*

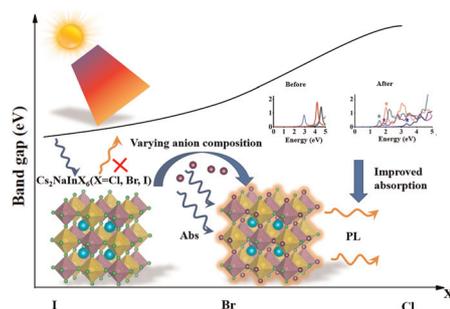


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Modulating luminescence through anion variation in lead-free $\text{Cs}_2\text{NaInX}_6$ ($X = \text{Cl, Br, and I}$) perovskites: a first-principles study

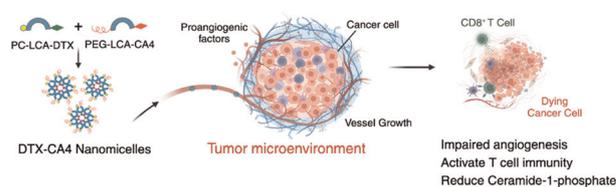
Desheng Yin, Zhenren Gao,* Changfu Xu, Pengbo Lyu* and Lizhong Sun*



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

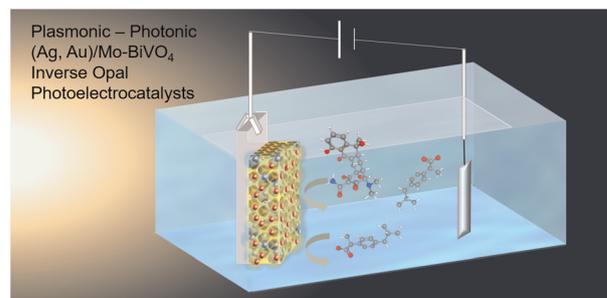
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Light concentration and electron transfer in plasmonic–photonic Ag,Au modified Mo-BiVO_4 inverse opal photoelectrocatalysts

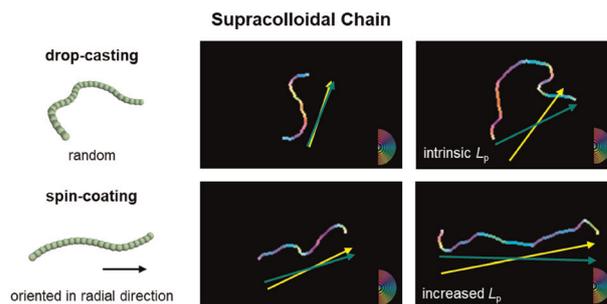
Martha Pylarinou, Elias Sakellis, Polychronis Tsiapas, Spiros Gardelis, Vassilis Psycharis, Athanasios Dimoulas, Thomas Stergiopoulos and Vlassis Likodimos*



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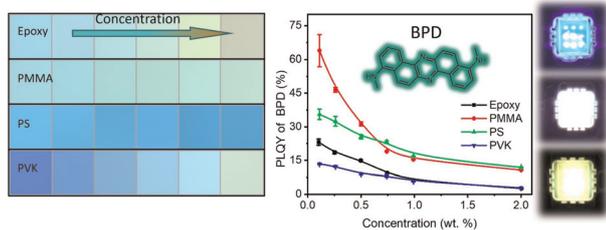
Orientation and stretching of supracolloidal chains of diblock copolymer micelles by spin-coating process

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



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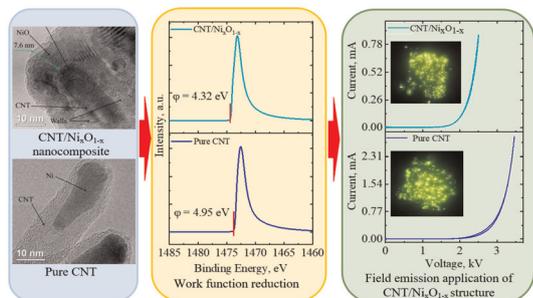
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High solid-state photoluminescence quantum yield of carbon-dot-derived molecular fluorophores for light-emitting devices

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

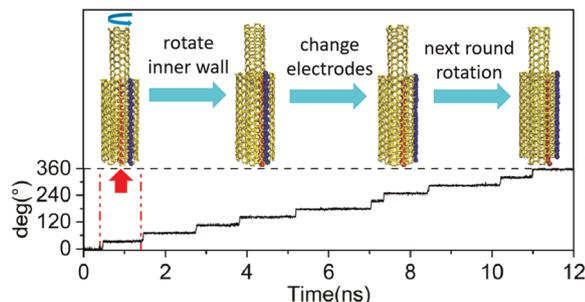
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Reducing and tuning the work function of field emission nanocomposite CNT/NiO cathodes by modifying the chemical composition of the oxide

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

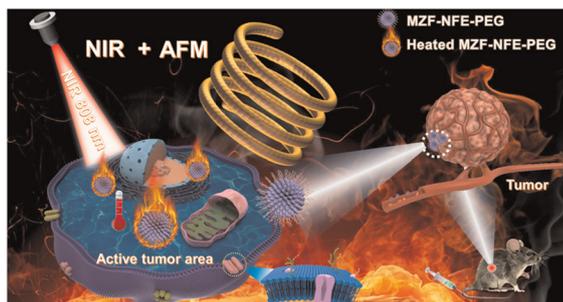
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Actuation mechanism of a nanoscale drilling rig based on nested carbon nanotubes

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*

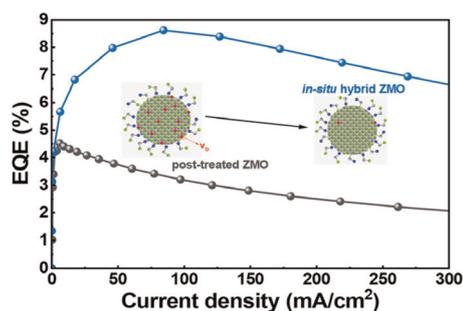


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Blue ZnSeTe quantum dot light-emitting diodes with low efficiency roll-off enabled by an *in situ* hybridization of ZnMgO nanoparticles and amino alcohol molecules

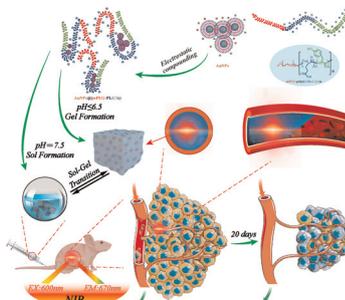
Shaolin Ma, Fan Cao, Guohua Jia, Qianqian Wu,*
Sheng Wang* and Xuyong Yang*



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

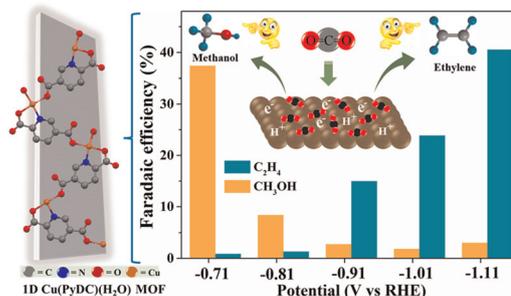
Feng Yang, Shiwen Gong, Die Hu, Lihua Chen,
Wenyuan Wang, Bo Cheng, Jing Yang, Binbin Li* and
Xinyu Wang*



10458

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

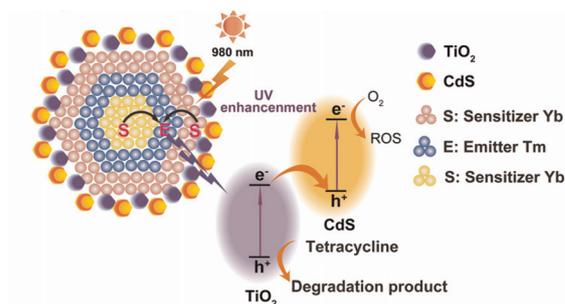
Manjunatha Kempasiddaiah, Rajib Samanta,
Sonali Panigrahy, Ravi Kumar Trivedi,
Brahmananda Chakraborty* and Sudip Barman*



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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

10483

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*

