

Journal of Materials Chemistry C

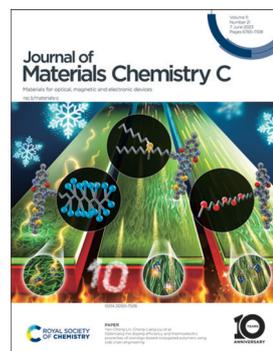
Materials for optical, magnetic and electronic devices

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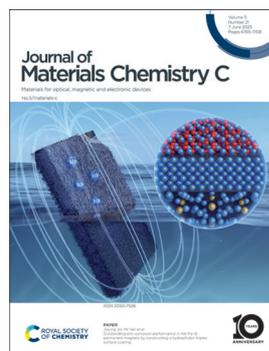
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ISSN 2050-7526 CODEN JMCCCX 11(21) 6765–7108 (2023)



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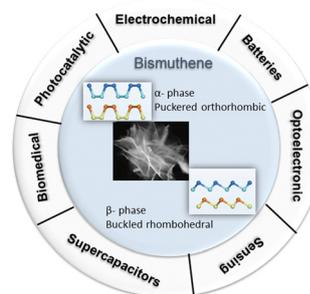
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Recent advances in ecofriendly 2D monoelemental bismuthene as an emerging material for energy, catalysis and biomedical applications

Shwetharani R.,* Itika Kainthla, Sumanth Dongre S., Laveena D'Souza and R. Geetha Balakrishna*



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Research progress of MIL-125 and its modifications in photocatalytic hydrogen evolution

Yijun He, Tianping Lv,* Bin Xiao, Bo Liu, Tong Zhou, Jin Zhang, Yumin Zhang, Genlin Zhang* and Qingju Liu*



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Journal of Materials Chemistry C (electronic: ISSN 2050-7534)

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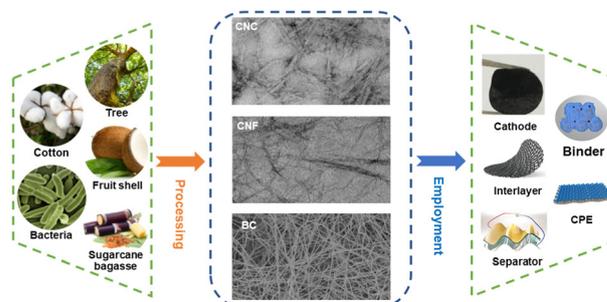


REVIEWS

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Inexhaustible natural celluloses in advanced Li–S batteries: a review

Ming Chen, Dongxue Liu, Liucheng Meng, Ying Zhao, Jiaqi Xu, Sha Yin, Yige Wang and Yang Huang*

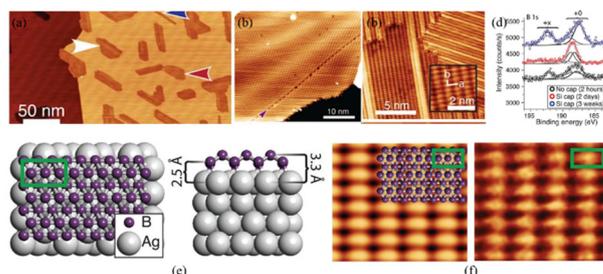


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Borophenes: monolayer, bilayer and heterostructures

Rui Yang and Mengtao Sun*

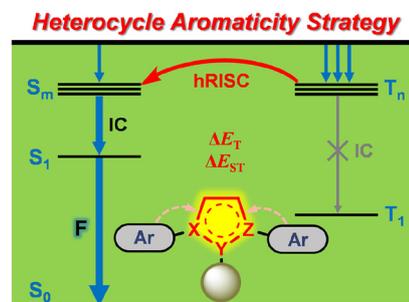


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Exploiting heterocycle aromaticity to fabricate new hot exciton materials

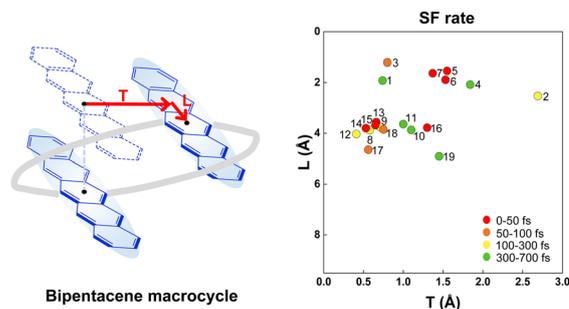
Shaoting Guo, Long Wang,* Qianqian Deng, Guoliang Wang, Xiangbin Tian, Xiyu Wang, Zuyuan Liu, Mengfan Zhang, Senhao Wang, Yanqin Miao,* Jun Zhu* and Hua Wang*



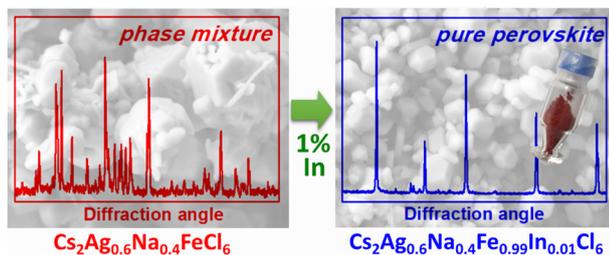
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Optimizing through-space interaction for singlet fission by using macrocyclic structures

Zhangxia Wang, Xuexiao Yang, Haibo Ma* and Xiaoyu Xie*



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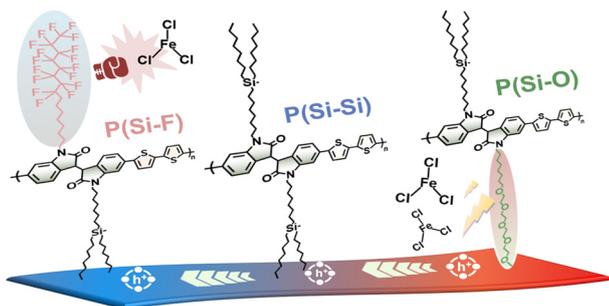


In(III)-dictated formation of double $\text{Cs}_2\text{Ag}_x\text{Na}_{1-x}\text{Fe}_y\text{In}_{1-y}\text{Cl}_6$ perovskites

Oleksandr Stroyuk,* Oleksandra Raievska, Anastasia Barabash, Jens Hauch and Christoph J. Brabec

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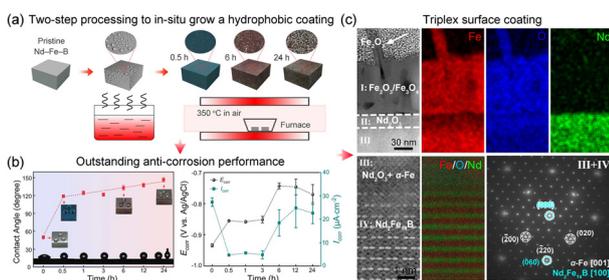
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Optimizing the doping efficiency and thermoelectric properties of isoindigo-based conjugated polymers using side chain engineering

Chia-Hao Tsai, Yan-Cheng Lin,* Wei-Ni Wu, Shih-Hung Tung, Wen-Chang Chen and Cheng-Liang Liu*

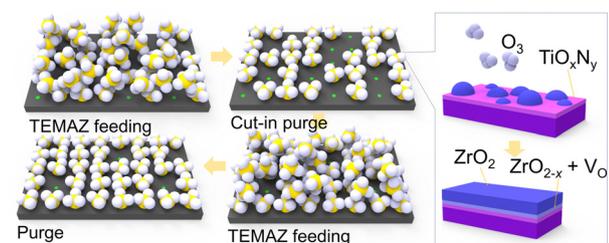
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Outstanding anti-corrosion performance in Nd–Fe–B permanent magnets by constructing a hydrophobic triplex surface coating

Wang Chen, Jiaying Jin,* Junyao Yu, Liang Zhou, Baixing Peng, Song Fu, Xiaolian Liu, Guohua Bai and Mi Yan*

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Enhancing chemisorption efficiency and thin-film characteristics *via* a discrete feeding method in high- k dielectric atomic layer deposition for preventing interfacial layer formation

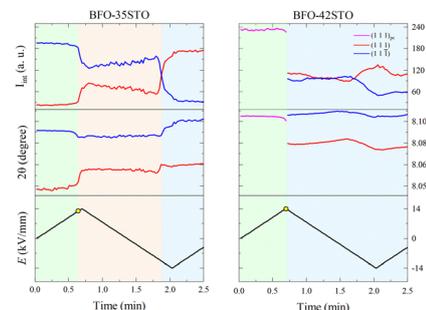
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Electric-field-induced non-ergodic relaxor to ferroelectric transition in $\text{BiFeO}_3-x\text{SrTiO}_3$ ceramics

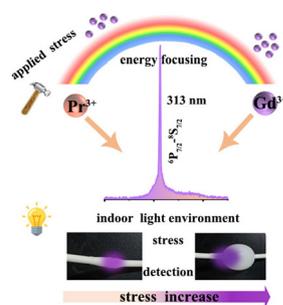
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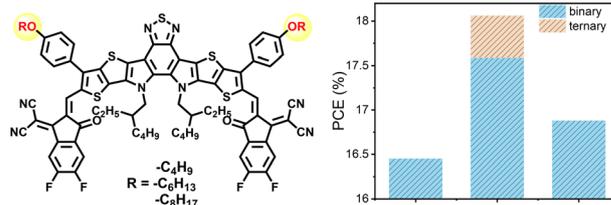
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Side-chain modification of non-fullerene acceptors for organic solar cells with efficiency over 18%

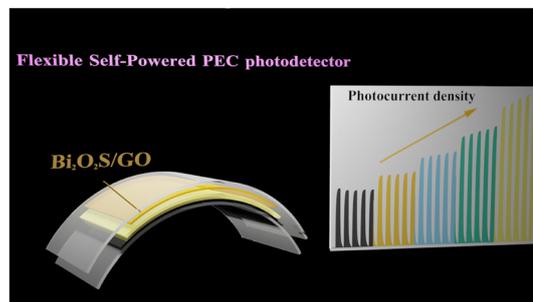
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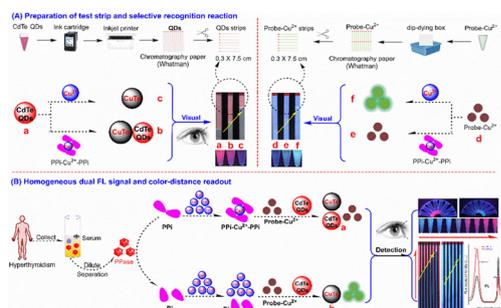
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Flexible self-powered photoelectrochemical-type photodetectors based on $\text{Bi}_2\text{O}_3/\text{GO}$ composites

Xinzhe Yan, Baolong Shi, Huyue Cao, Zhengshan Tian, Chaoqing Dai,* Wei Liu,* Qin Yang* and Yueyue Wang*



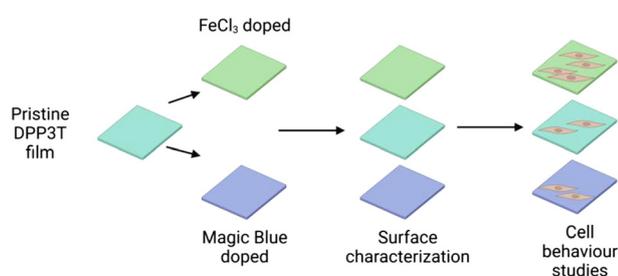
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Visual analysis of pyrophosphatase assisted by red and green two-color distance-reading test strips for the diagnosis of hyperthyroidism

Tian Shi, Wu Peng, Li Yan, Maoyuan Zhao, Zixuan Zhan,* Binwu Ying* and Piaopiao Chen*

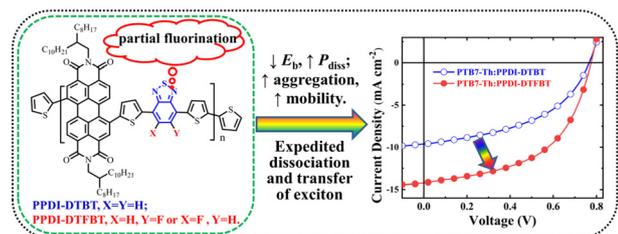
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Improving the biological interfacing capability of diketopyrrolopyrrole polymers via p-type doping

Ryan P. Trueman, Peter Gilhooly Finn, Megan M. Westwood, Avishek Dey, Robert Palgrave, Alethea Tabor, James B. Phillips and Bob C. Schroeder*

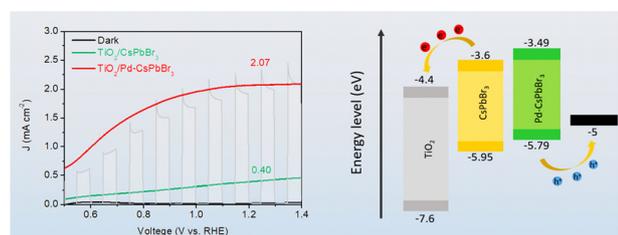
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Unraveling the origin of improved photovoltaic performance in acceptor-acceptor-structured perylene-diimide-based polymeric acceptors through partially fluorinating benzo[c][1,2,5]thiadiazole

Junfeng Tong,* Wuyan Liu, Yubo Huang, Zheyu Li, Yan Wang, Suiyan Bai, Zezhou Liang, Lihe Yan,* Jianfeng Li and Yangjun Xia*

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Enhanced charge transport from Pd-doping in CsPbBr₃ quantum dots for efficient photoelectrocatalytic water splitting

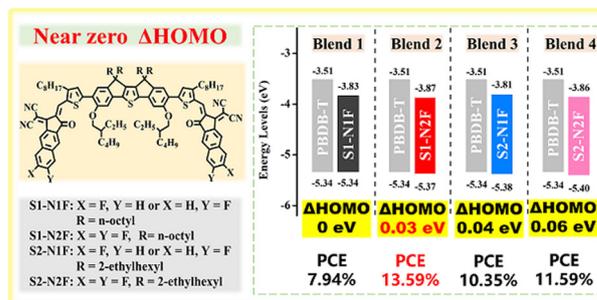
Wenxiao Gong, Yulan Li,* Yang Yang, Heng Guo* and Xiaobin Niu*



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Near 0 eV HOMO offset enable high-performance nonfullerene organic solar cells with large open circuit voltage and fill factor

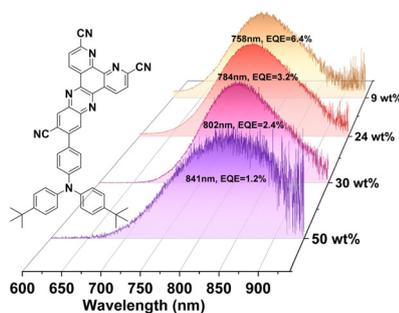
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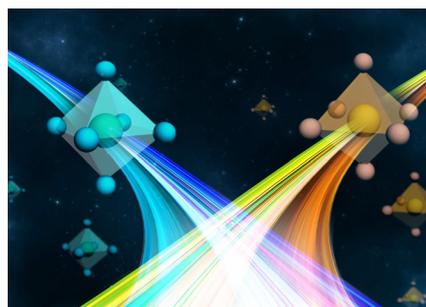
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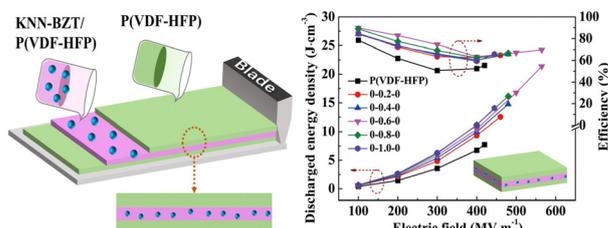
Tianzhuo Wen, Guoxian Gu,* Bofei Wang, Wenjun Zhang* and Ruihu Wang



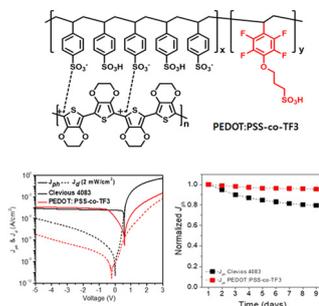
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Improved energy storage performance of sandwich-structured P(VDF-HFP)-based nanocomposites by the addition of inorganic nanoparticles

Yan Guo, Di Zhou,* Da Li, Weichen Zhao, Yifei Wang, Lixia Pang, Zhongqi Shi, Tao Zhou, Shikuan Sun, Charanjeet Singh, Sergei Trukhanov, Antonio Sergio Bezerra Sombra and Guohua Chen



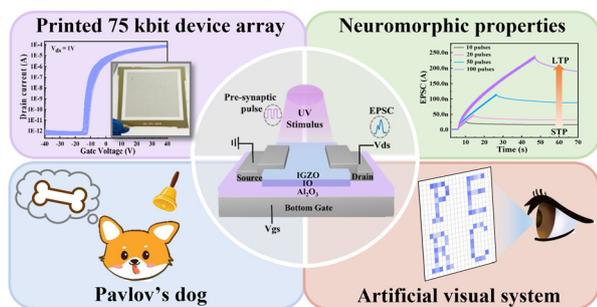
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Synthesis and characterization of PEDOT:PSS-co-TF for enhancing detection performances of organic photodetectors

Long Shen, Gyeong Uk Seo, Hyeong Ju Eun, Prabhakaran Prem, Sang Eun Yoon, Jong H. Kim* and Tae-Dong Kim*

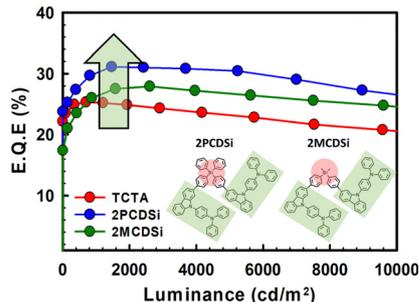
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75 kbit printed indium oxide (IO)/indium gallium zinc oxide (IGZO) heterojunction photoelectric synaptic transistor arrays for an artificial visual memory system

Shuangshuang Shao, Suyun Wang, Min Li, Tanghao Xie, Yuxiao Fang, Penghui Guo, Zhaofeng Chen and Jianwen Zhao*

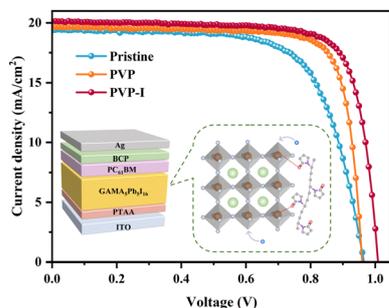
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A design strategy of exciton blocking materials using simulations and the analysis of device properties

Young Hun Jung, Ramanaskanda Braveenth, Seung Hyun Lee, Su Bin Oh, Hyuna Lee, Hye In Yang, Jun Hyeog Oh, Hye Rin Kim, Bo-Mi Kim* and Jang Hyuk Kwon*

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The synergistic passivation effect of functionally doped povidone-iodine on quasi-2D perovskite solar cells

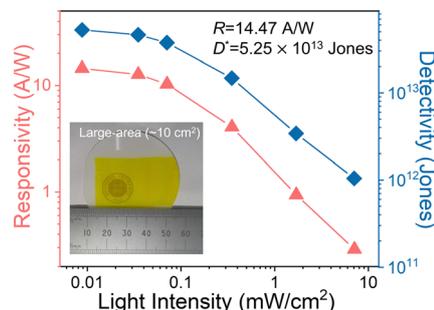
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Blade-coating of a highly crystallized lead-free silver-bismuth halide double perovskite thin film with improved stability for high-performance photodetection

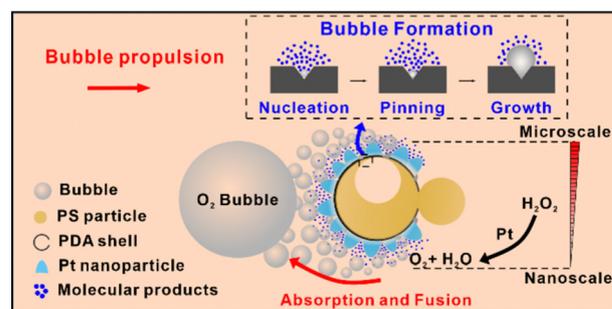
Feier Fang, Wenlong He,* Zexiang Liu, Ke Jiang, Ye Wang, Fuming Chen, Henan Li* and Yumeng Shi*



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Bubble-propelled micro-/nanomotors of variable sizes by regulating the surface microstructure of partially coated Pt shells

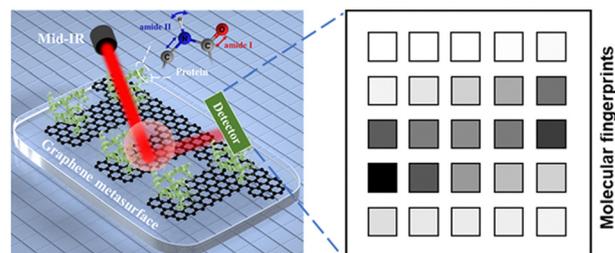
Jiaxin Li, Xiangxiang Zhai, Zili Yang, Ziyue Pei, Ming Luo* and Jianguo Guan*



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Graphene plasmonics for ultrasensitive imaging-based molecular fingerprint detection

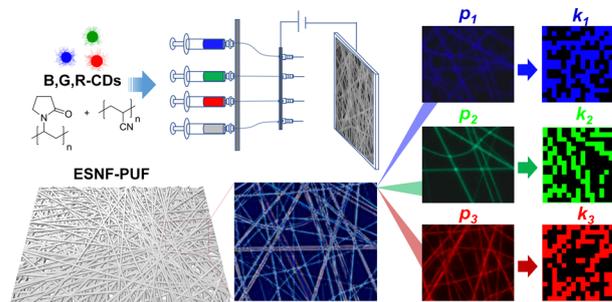
Chengdong Tao, Chuanbao Liu,* Yongliang Li, Lijie Qiao, Ji Zhou and Yang Bai*



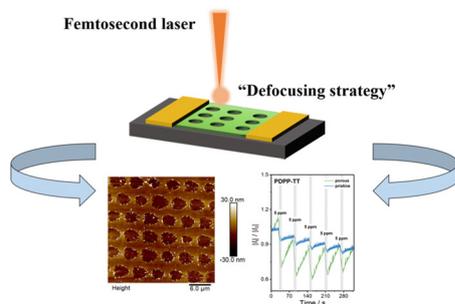
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A multicolor carbon dot doped nanofibrous membrane for unclonable anti-counterfeiting and data encryption

Shunfei Qiang, Ke Yuan, Yanyan Cheng, Guoqiang Long, Wenkai Zhang,* Xiaofeng Lin, Xiuli Chai,* Xiaomin Fang and Tao Ding



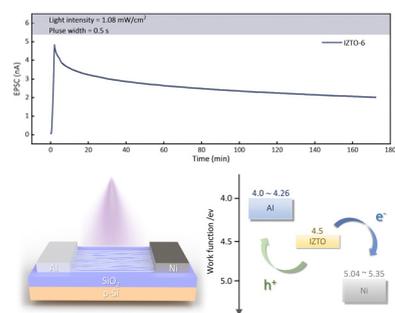
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Direct laser patterning of organic semiconductors for high performance OFET-based gas sensors

Li Chen, Yuzhou Hu, Huaxi Huang, Chao Liu, Di Wu* and Jianlong Xia*

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Long-memory retention and self-powered ultraviolet artificial synapses realized by multi-cation metal oxide semiconductors

Lingyan Zheng, Ruifu Zhou, Shuwen Xin, Haofei Cong, Yuanbin Qin, Peilong Xu, Xuhai Liu* and Fengyun Wang*

