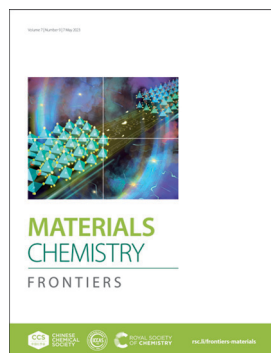


### IN THIS ISSUE

ISSN 2052-1537 CODEN MCFAC5 7(9) 1697-1888 (2023)



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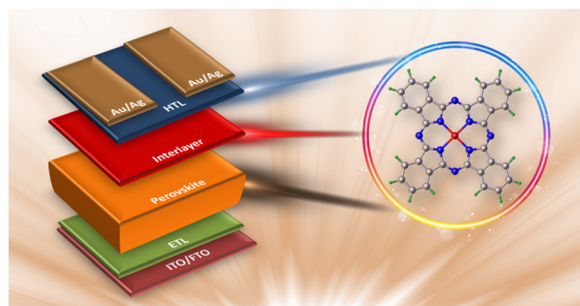
See Hongzheng Chen, Lijian Zuo *et al.*, pp. 1803–1812. Image reproduced by permission of Lijian Zuo from *Mater. Chem. Front.*, 2023, 7, 1803.

### REVIEWS

1704

#### Phthalocyanine in perovskite solar cells: a review

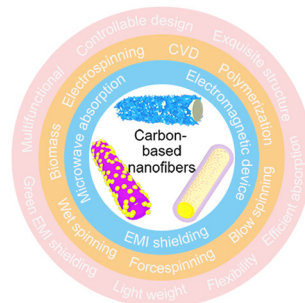
Ehsan Rezaee, Danish Khan, Siyuan Cai, Lei Dong, Hui Xiao, S. Ravi P. Silva, Xiaoyuan Liu\* and Zong-Xiang Xu\*



1737

#### Tailoring carbon-based nanofiber microstructures for electromagnetic absorption, shielding, and devices

Qi Zheng, Wen-Qiang Cao, Huazhang Zhai\* and Mao-Sheng Cao\*



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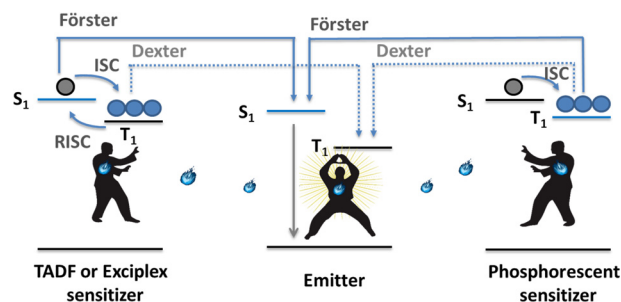


## REVIEWS

1760

## Sensitized organic light-emitting diodes: towards high efficiency and long lifetimes

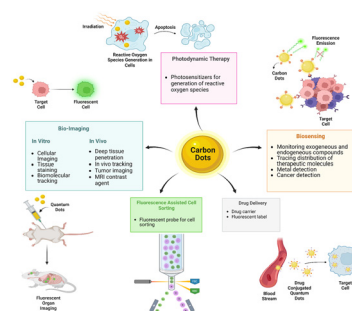
Peng Zuo, Yang-Kun Qu, Qi Zheng, Liang-Sheng Liao\* and Zuo-Quan Jiang\*



1781

## Carbon-based designer and programmable fluorescent quantum dots for targeted biological and biomedical applications

Ketki Barve, Udisha Singh, Pankaj Yadav and Dhiraj Bhatia\*

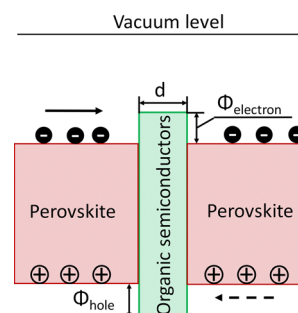


## RESEARCH ARTICLES

1803

Bridging the inter-grain charge transport *via* organic semiconductors for high-performance thickness-insensitive perovskite solar cells

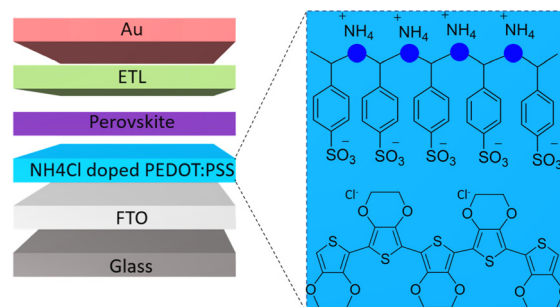
Yuying Cao, Fei Wu, Chang Xu, Haotian Wu, Shuixing Li, Xinru Wang, Tianyi Chen, Boyu Peng, Hanying Li, Hongzheng Chen\* and Lijian Zuo\*



1813

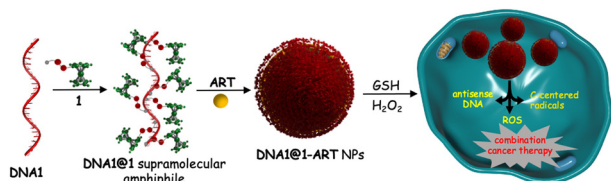
Harnessing solar energy with  $\text{NH}_4\text{Cl}$ -doped hole transport layers in inverted perovskite solar cells

Sikandar Iqbal, Aadil Nabi Chishti, Muhammad Bilal Hussain, Fakhr uz Zaman, Abdul Qayum, Rashid Mehmood and Shahid Zaman\*



## RESEARCH ARTICLES

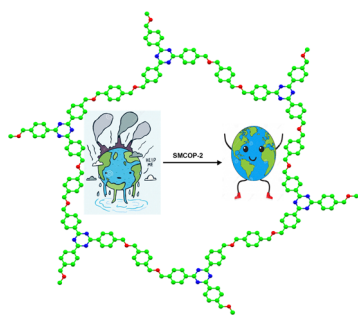
1821



### Tumor microenvironment responsive nanocarriers for efficient antisense DNA delivery and enhanced chemodynamic therapy

Gowtham Raj, Vasudev D. S., Nikhil Dev Narendradev, Viswa Kalyan Kumar Dommeti, Saurabh Shriwas, P. M. Ajay Sekhar, Leah Susan Jacob, S. Murty Srinivasula and Reji Varghese\*

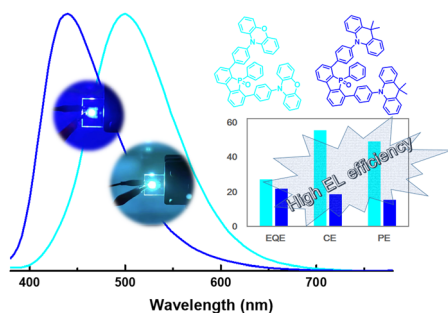
1831



### Exploring multifunctional applications of a luminescent covalent triazine polymer in acid vapour sensing, CO<sub>2</sub> capture, dye removal, and turn-off fluorescence sensing of dichromate ions

Argha Chakraborty, Sayantan Sarkar, Probal Nag, Rishi Ranjan, Sivaranjana Reddy Vennapusa and Suman Mukhopadhyay\*

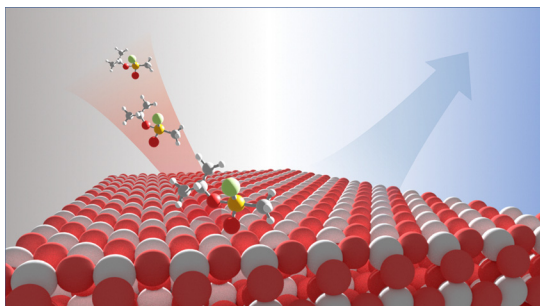
1841



### Blue emitters with various electron-donors attached to the 9-phenyl-9-phosphafluorene oxide (PhFIOP) moiety and their thermally activated delayed fluorescence (TADF) behavior

Xi Chen, Siqi Liu, Yuling Sun, Daokun Zhong, Zhao Feng, Xiaolong Yang, Bochao Su, Yuanhui Sun, Guijiang Zhou,\* Bo Jiao\* and Zhaoxin Wu

1855



### High reactivity of mesoporous CeO<sub>2</sub> to dissociate chemical warfare agent sarin

Tianyu Li, Matthew Leonard, Roman Tsyshevsky, Monica McEntee, Christopher Karwacki, Erin M. Durke, Maija M. Kuklja\* and Efrain E. Rodriguez\*

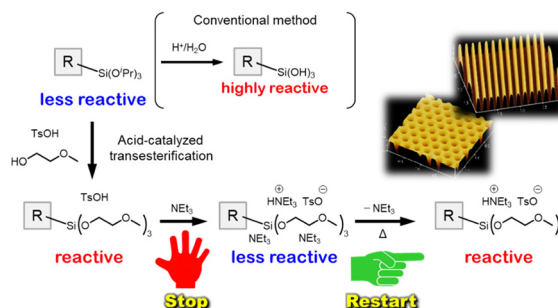


## RESEARCH ARTICLES

1867

## Stop and restart of polycondensation reactions of highly reactive sol–gel precursors for nanoscale surface molding

Norihiro Mizoshita\* and Yuri Yamada



1875

## Design of fluorescent polymeric thermometers based on anthrapyrazolone functionalized oligo(ethylene glycol) methacrylates

S. Saravanan, Anashwara Babu, Ronald Merckx, Zifu Zhong, Mageshwari Anandan, Venkatramaiah Nutalapati, Bruno G. De Geest, Richard Hoogenboom,\* Valentin Victor Jerca\* and Samarendra Maji\*

