

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 0306-0012 CODEN CSRVBR 53(18) 8951–9420 (2024)



Cover

See Dana Cialla-May et al., pp. 8957–8979.
Image reproduced by permission of Leibniz IPHT Jena from *Chem. Soc. Rev.*, 2024, 53, 8957.



Inside cover

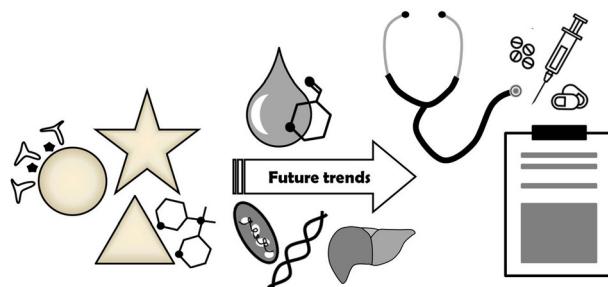
See Zhiqun Lin, Jeongwon Kim, Dong Ha Kim et al., pp. 9029–9058.
Image reproduced by permission of Dong Ha Kim from *Chem. Soc. Rev.*, 2024, 53, 9029.

TUTORIAL REVIEWS

8957

Biomedical SERS – the current state and future trends

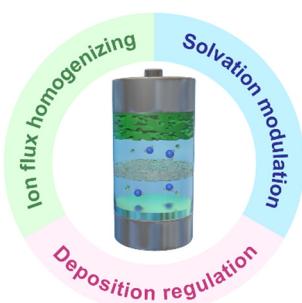
Dana Cialla-May,* Alois Bonifacio, Thomas Bocklitz, Alexey Markin, Natalia Markina, Stefano Fornasaro, Aradhana Dwivedi, Tony Dib, Edoardo Farnesi, Chen Liu, Arna Ghosh and Juergen Popp



8980

Interfacial chemistry in multivalent aqueous batteries: fundamentals, challenges, and advances

Zhengyu Ju, Tianrui Zheng, Bowen Zhang and Guihua Yu*



GOLD
OPEN
ACCESS

EES Solar

Exceptional research on solar
energy and photovoltaics



Part of the EES family

Join
in

Publish with us

rsc.li/EESSolar

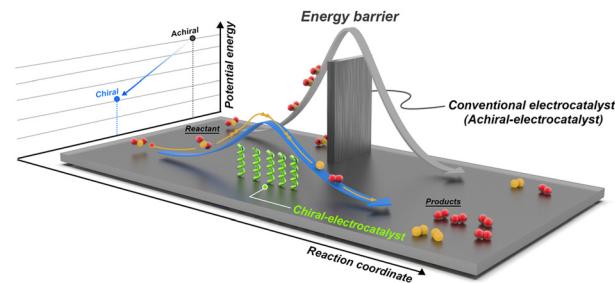
Registered charity number: 207890

REVIEW ARTICLES

9029

The promise of chiral electrocatalysis for efficient and sustainable energy conversion and storage: a comprehensive review of the CISS effect and future directions

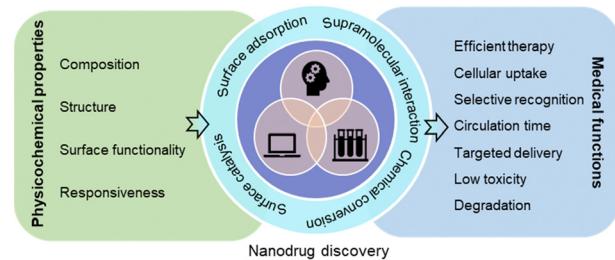
Kyunghee Chae, Nur Aqlili Riana Che Mohamad, Jeonghyeon Kim, Dong-Il Won, Zhiqun Lin,* Jeongwon Kim* and Dong Ha Kim*



9059

Computer-aided nanodrug discovery: recent progress and future prospects

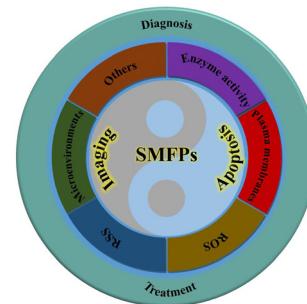
Jia-Jia Zheng, Qiao-Zhi Li, Zhenzhen Wang, Xiaoli Wang, Yuliang Zhao and Xingfa Gao*



9133

Advances in small-molecule fluorescent probes for the study of apoptosis

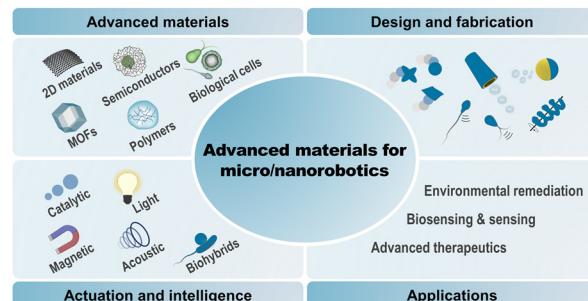
Ya-Xi Ye, Jian-Cheng Pan, Hai-Chao Wang, Xing-Tao Zhang,* Hai-Liang Zhu* and Xin-Hua Liu*



9190

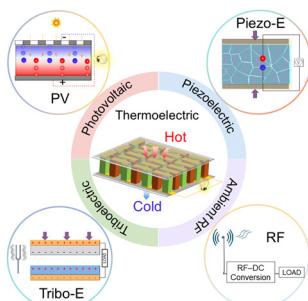
Advanced materials for micro/nanorobotics

Jeonghyo Kim, Paula Mayorga-Burrezo, Su-Jin Song, Carmen C. Mayorga-Martinez, Mariana Medina-Sánchez, Salvador Pané and Martin Pumera*



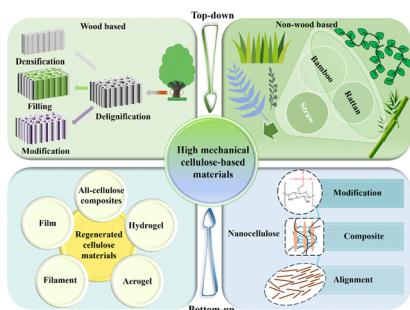
REVIEW ARTICLES

9254

**Advancing flexible thermoelectrics for integrated electronics**

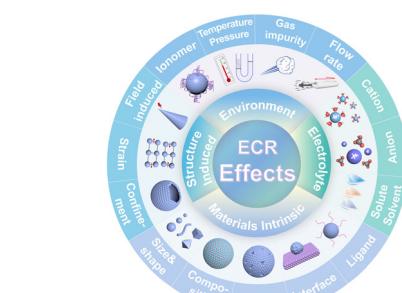
Xiao-Lei Shi, Lijun Wang, Wanyu Lyu, Tianyi Cao, Wenyi Chen, Boxuan Hu and Zhi-Gang Chen*

9306

**“Bottom-up” and “top-down” strategies toward strong cellulose-based materials**

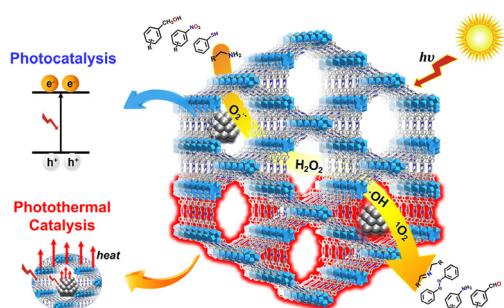
Qin Qin, Shiyi Zeng, Gaigai Duan, Yanbo Liu,* Xiaoshuai Han, Ruizhi Yu,* Yong Huang, Chunmei Zhang,* Jingquan Han* and Shaohua Jiang*

9344

**Strong effect-correlated electrochemical CO₂ reduction**

Yu-Feng Tang, Lin-Bo Liu, Mulin Yu, Shuo Liu, Peng-Fei Sui, Wei Sun, Xian-Zhu Fu, Jing-Li Luo and Subiao Liu*

9378

**Metal–organic frameworks for organic transformations by photocatalysis and photothermal catalysis**

Hong-Guang Jin,* Peng-Cheng Zhao, Yunyang Qian, Juan-Ding Xiao,* Zi-Sheng Chao and Hai-Long Jiang*

