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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

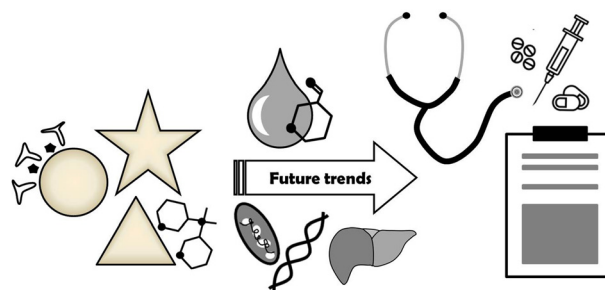
See Zhiqun Lin, Jeongwon Kim, Dong Ha Kim *et al.*, pp. 9029–9058. Image reproduced by permission of Dong Ha Kim from *Chem. Soc. Rev.*, 2024, 53, 9029.

## TUTORIAL REVIEWS

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### Biomedical SERS – the current state and future trends

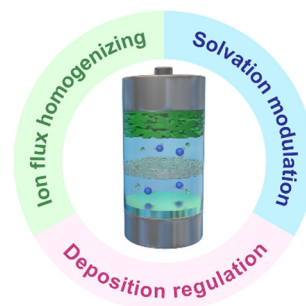
Dana Cialla-May,\* Alois Bonifacio, Thomas Bocklitz, Alexey Markin, Natalia Markina, Stefano Fornasaro, Aradhana Dwivedi, Tony Dib, Edoardo Farnesi, Chen Liu, Arna Ghosh and Juergen Popp



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

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



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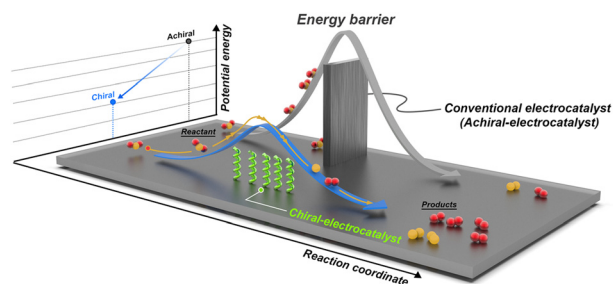
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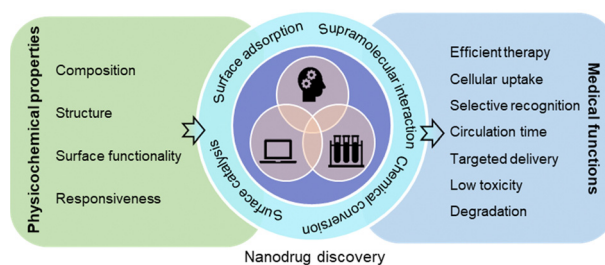
Kyunghee Chae, Nur Aqlili Riana Che Mohamad, Jeonghyeon Kim, Dong-Il Won, Zhiqun Lin,\* Jeongwon Kim\* and Dong Ha Kim\*



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### Computer-aided nanodrug discovery: recent progress and future prospects

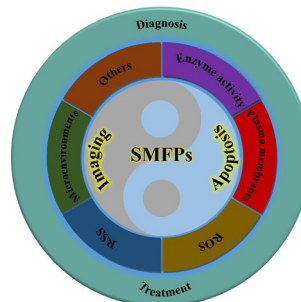
Jia-Jia Zheng, Qiao-Zhi Li, Zhenzhen Wang, Xiaoli Wang, Yuliang Zhao and Xingfa Gao\*



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

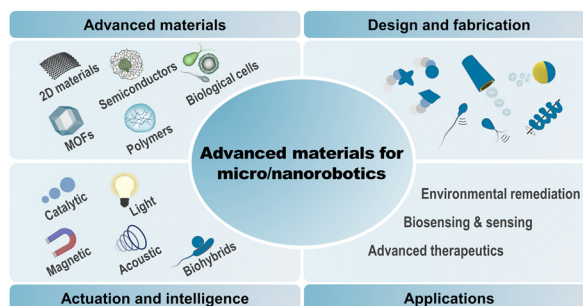
Ya-Xi Ye, Jian-Cheng Pan, Hai-Chao Wang, Xing-Tao Zhang,\* Hai-Liang Zhu\* and Xin-Hua Liu\*



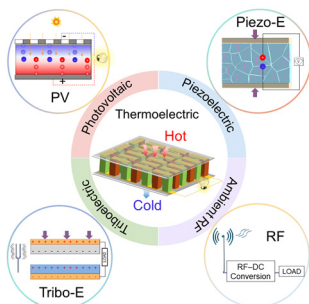
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### Advanced materials for micro/nanorobotics

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



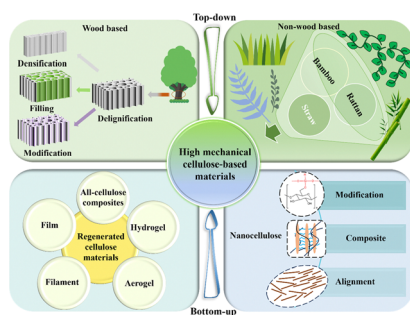
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Xiao-Lei Shi, Lijun Wang, Wanyu Lyu, Tianyi Cao, Wenyi Chen, Boxuan Hu and Zhi-Gang Chen\*

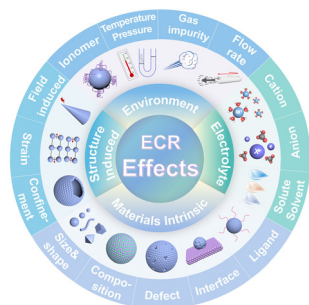
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### "Bottom-up" and "top-down" strategies toward strong cellulose-based materials

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

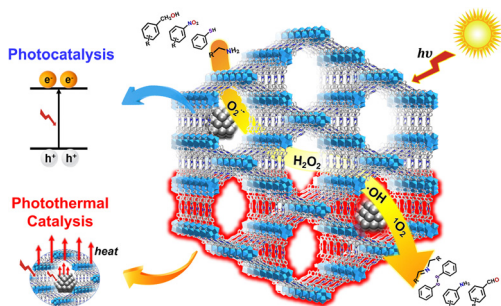
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### Strong effect-correlated electrochemical CO<sub>2</sub> reduction

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

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### 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\*

