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Cover
See Jesse V. Jokerst *et al.*, pp. 7681–7741. Image reproduced by permission of Jesse V. Jokerst and Zhicheng Jin from *Chem. Soc. Rev.*, 2024, **53**, 7681. Artwork by Zhicheng Jin.

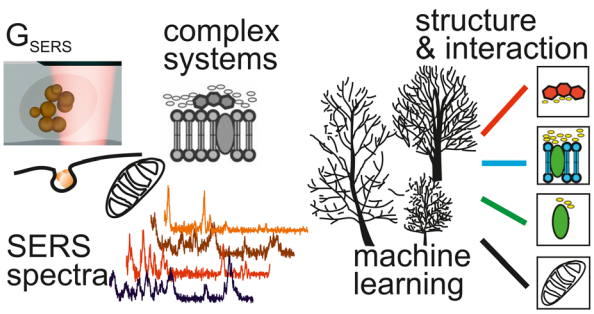
Inside cover
See Janina Kneipp *et al.*, pp. 7641–7656. Image reproduced by permission of Heinrich Kittel and Janina Kneipp from *Chem. Soc. Rev.*, 2024, **53**, 7641.

TUTORIAL REVIEWS

7641

SERS microscopy as a tool for comprehensive biochemical characterization in complex samples

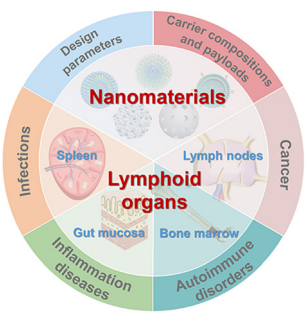
Janina Kneipp,* Stephan Seifert and Florian Gärber



7657

Lymphoid organ-targeted nanomaterials for immunomodulation of cancer, inflammation, and beyond

Jessica C. Hsu, Peng Liu, Yangmeihui Song, Wenyu Song, Rachel J. Saladin, Ying Peng, Shuo Hu, Xiaoli Lan and Weibo Cai*



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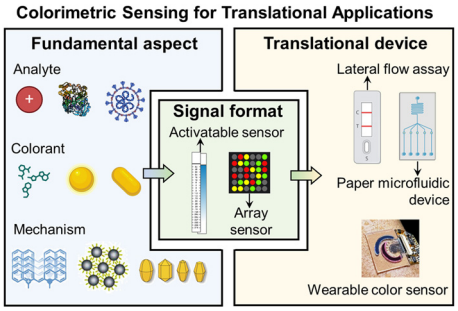
REVIEW ARTICLES

7681

Colorimetric sensing for translational applications: from colorants to mechanisms

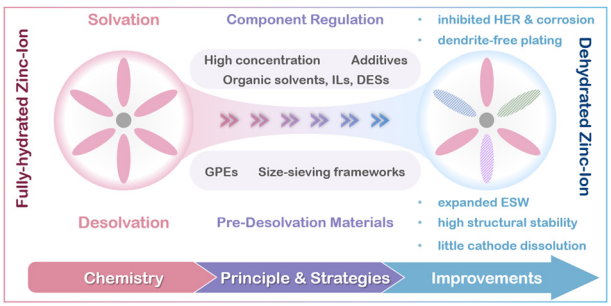
Zhicheng Jin, Wonjun Yim, Maurice Retout, Emily Housel, Wenbin Zhong, Jiajing Zhou, Michael S. Strano and Jesse V. Jokerst*



7742

Recent advances in zinc-ion dehydration strategies for optimized Zn–metal batteries

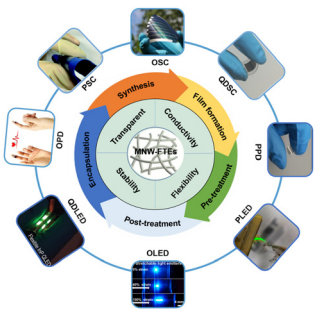
Haoyu Li, Sijie Li, Ruilin Hou, Yuan Rao, Shaohua Guo, Zhi Chang* and Haoshen Zhou*



7784

Metal nanowire-based transparent electrode for flexible and stretchable optoelectronic devices

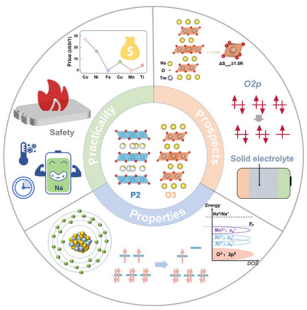
Yu Ding, Sixing Xiong, Lulu Sun, Yiying Wang, Yinhua Zhou, Yaowen Li, Jun Peng, Kenjiro Fukuda,* Takao Someya,* Ruiyuan Liu* and Xiaohong Zhang*



7828

Sodium layered oxide cathodes: properties, practicality and prospects

Yu-Jie Guo, Ruo-Xi Jin, Min Fan, Wen-Peng Wang, Sen Xin,* Li-Jun Wan and Yu-Guo Guo*



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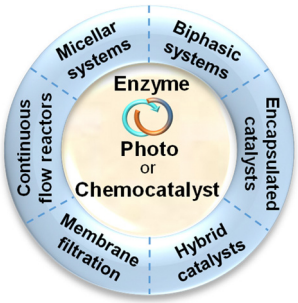
7875



One-pot chemo- and photo-enzymatic linear cascade processes

J. M. Carceller, K. S. Arias, M. J. Climent, S. Iborra* and A. Corma*

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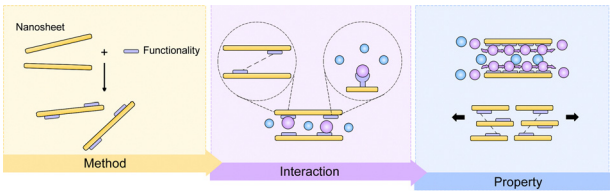

Functionalized 2D membranes for separations at the 1-nm scale

Yuan Kang, Yuqi Wang, Hao Zhang, Zhouyou Wang, Xiwang Zhang* and Huanting Wang*

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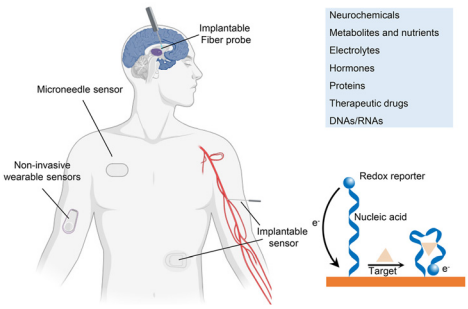

Nucleic acid-based wearable and implantable electrochemical sensors

Cui Ye, Heather Lukas, Minqiang Wang, Yerim Lee and Wei Gao*

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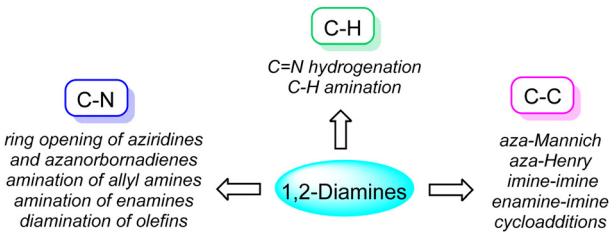

Catalytic asymmetric synthesis of 1,2-diamines

Francisco Foubelo, Carmen Nájera,*
M[a] Gracia Retamosa, José M. Sansano and Miguel Yus

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