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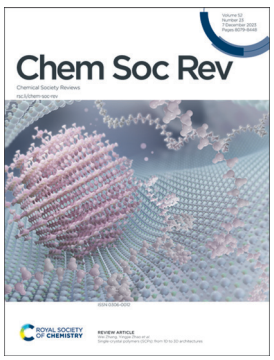


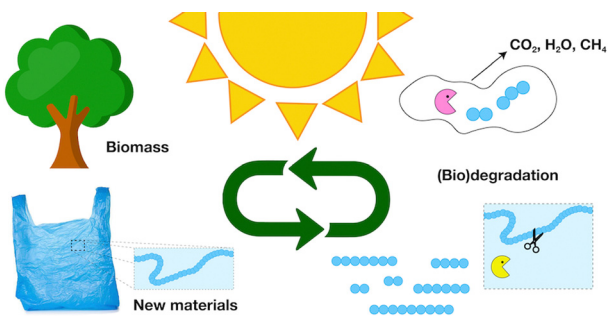
Inside cover
See Wei Zhang, Yingjie Zhao *et al.*, pp. 8165–8193. Image reproduced by permission of Yingjie Zhao from *Chem. Soc. Rev.*, 2023, **52**, 8165.

TUTORIAL REVIEWS

8085

Designing biodegradable alternatives to commodity polymers

Emanuella F. Fiandra, Lloyd Shaw, Matthieu Starck, Christopher J. McGurk and Clare S. Mahon*



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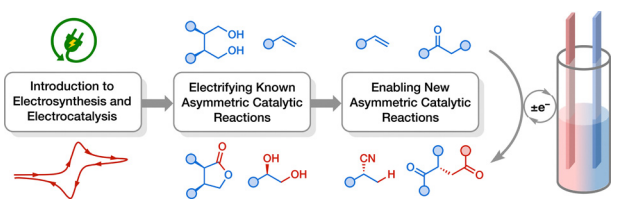
A tutorial on asymmetric electrocatalysis

Jonas Rein, Samson B. Zacate, Kaining Mao and Song Lin*



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ROYAL SOCIETY OF CHEMISTRY

REVIEW ARTICLES

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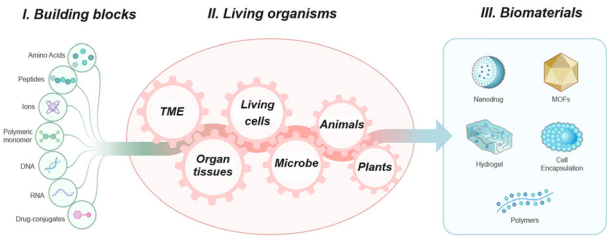
Synthesizing biomaterials in living organisms

Xiangyang Zhang, Junxia Wang, Ying Zhang, Zhimou Yang, Jie Gao* and Zhen Gu*



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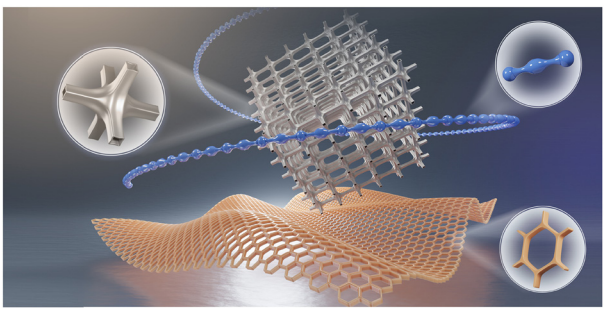
Single-crystal polymers (SCPs): from 1D to 3D architectures

Mingsen Wang, Yinghua Jin, Wei Zhang* and Yingjie Zhao*



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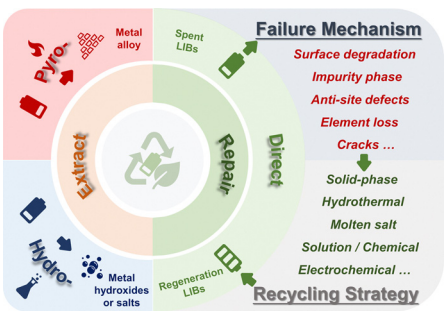
Fundamentals, status and challenges of direct recycling technologies for lithium ion batteries

Haocheng Ji, Junxiong Wang, Jun Ma, Hui-Ming Cheng* and Guangmin Zhou*



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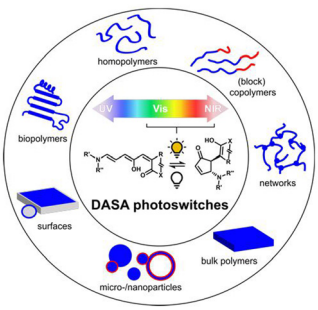
Visible light-responsive materials: the (photo)chemistry and applications of donor–acceptor Stenhouse adducts in polymer science

Michèle Clerc, Sara Sandlass, Omar Rifaie-Graham, Julie A. Peterson, Nico Bruns,* Javier Read de Alaniz* and Luciano F. Boesel*



REVIEW ARTICLES

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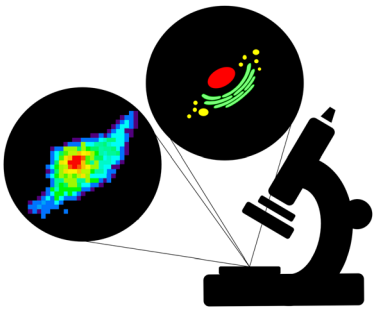

Towards multimodal cellular imaging: optical and X-ray fluorescence

Marcus E. Graziotto, Clinton J. Kidman, Liam D. Adair, Simon A. James, Hugh H. Harris and Elizabeth J. New*

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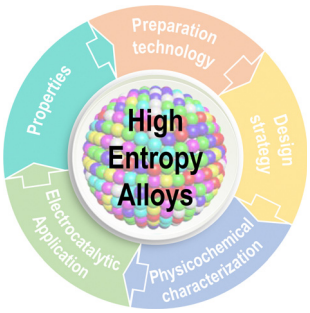

High-entropy alloys in electrocatalysis: from fundamentals to applications

Jin-Tao Ren, Lei Chen, Hao-Yu Wang and Zhong-Yong Yuan*

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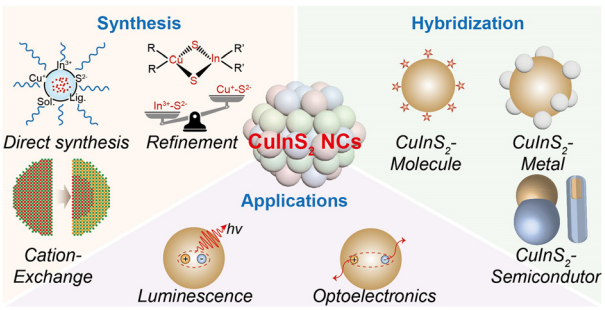

Synthesis and hybridization of $CuInS_2$ nanocrystals for emerging applications

Bing Chen, Weilin Zheng, Fengjun Chun, Xiuwen Xu,* Qiang Zhao* and Feng Wang*

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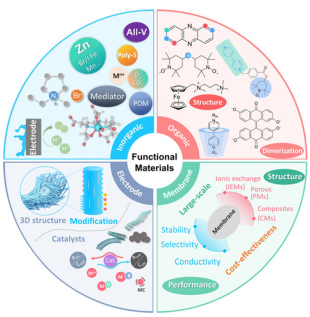

Functional materials for aqueous redox flow batteries: merits and applications

Fulong Zhu, Wei Guo* and Yongzhu Fu*