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See Frank Caruso, Jiajing Zhou *et al.*, pp. 10800–10826. Image reproduced by permission of Jiajing Zhou from *Chem. Soc. Rev.*, 2024, 53, 10800.



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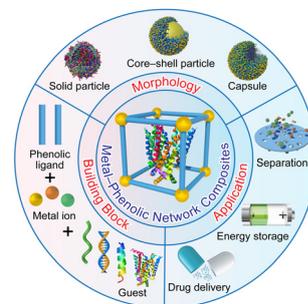
See Katharina Landfester, Shuai Jiang *et al.*, pp. 10827–10851. Image reproduced by permission of Max Planck Institute for Polymer Research from *Chem. Soc. Rev.*, 2024, 53, 10827.

TUTORIAL REVIEWS

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Metal–phenolic network composites: from fundamentals to applications

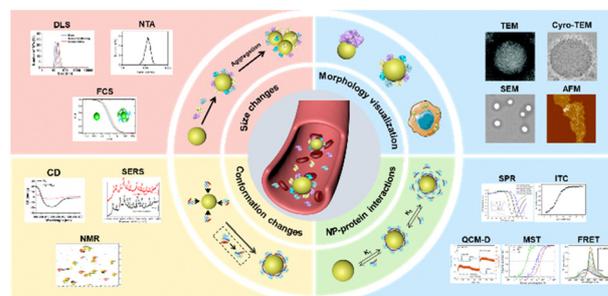
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In situ characterization techniques of protein corona around nanomaterials

Fangqin Fu, Daniel Crespy, Katharina Landfester* and Shuai Jiang*



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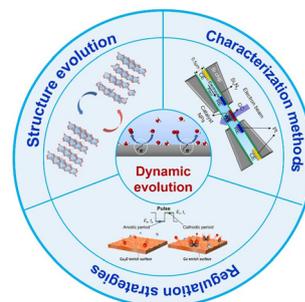
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TUTORIAL REVIEWS

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Dynamic evolution processes in electrocatalysis: structure evolution, characterization and regulation

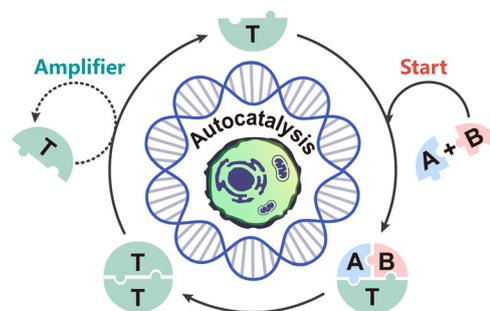
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Autocatalytic DNA circuitries

Qiong Wu, Wei Xu, Jinhua Shang, Jiajing Li, Xiaoqing Liu, Fuan Wang* and Jinghong Li*

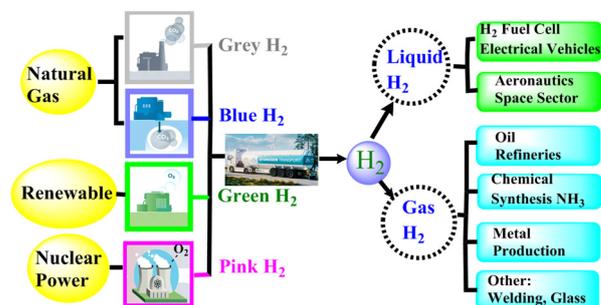


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A comprehensive review on hydrogen production, storage, and applications

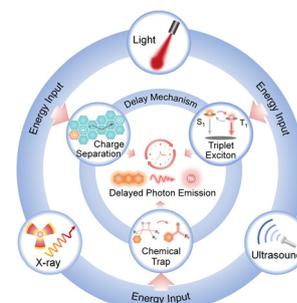
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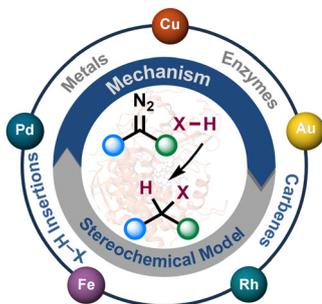
Light/X-ray/ultrasound activated delayed photon emission of organic molecular probes for optical imaging: mechanisms, design strategies, and biomedical applications

Rui Qu, Xiqun Jiang* and Xu Zhen*



REVIEW ARTICLES

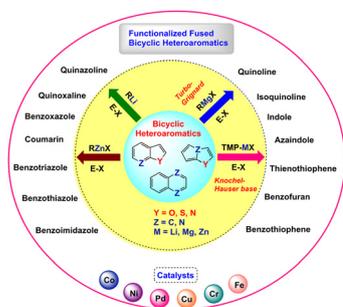
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Mechanism and stereoselectivity in metal and enzyme catalyzed carbene insertion into X-H and C(sp²)-H bonds

Reena Balhara, Ritwika Chatterjee and Garima Jindal*

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Recent synthetic strategies for the functionalization of fused bicyclic heteroaromatics using organo-Li, -Mg and -Zn reagents

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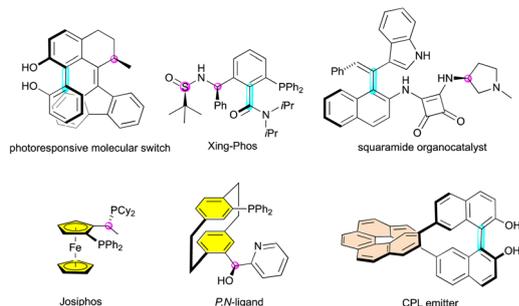
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Carbon encapsulated nanoparticles: materials science and energy applications

Kun Guo,* Lipiao Bao, Zhixin Yu and Xing Lu*

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Enantioselective synthesis of molecules with multiple stereogenic elements

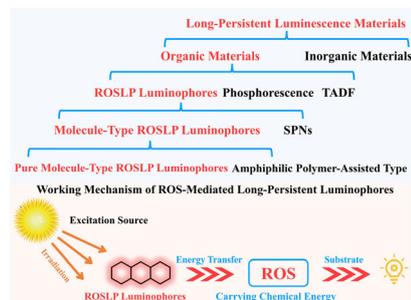
Arthur Gaucherand, Expédite Yen-Pon, Antoine Domain, Alix Bourhis, Jean Rodriguez and Damien Bonne*



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Zhe Li,* Hongwen Liu* and Xiao-Bing Zhang*



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Emerging two-dimensional ferromagnetic semiconductors

Denan Kong, Chunli Zhu, Chunyu Zhao, Jijian Liu, Ping Wang, Xiangwei Huang,* Shoujun Zheng,* Dezhi Zheng, Ruibin Liu* and Jiadong Zhou*

