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IN THIS ISSUE

ISSN 0306-0012 CODEN CSRVBR 52(14) 4519-4834 (2023)



Cover

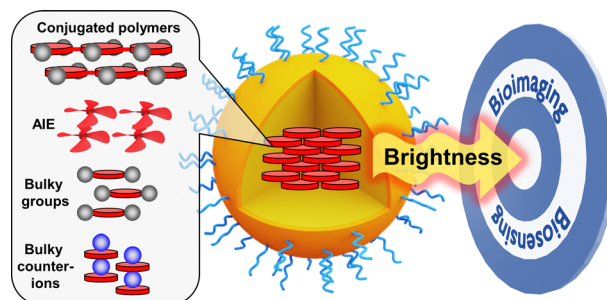
See Chao Zhong, Cong Liu *et al.*, pp. 4603–4631. Image reproduced by permission of Lei Chen from *Chem. Soc. Rev.*, 2023, 52, 4603. The cover image was drawn by Lei Chen.

TUTORIAL REVIEWS

4525

Brightness of fluorescent organic nanomaterials

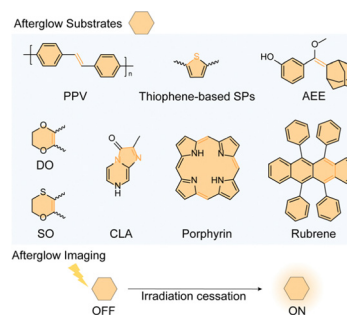
Anila Hoskere Ashoka, Ilya O. Aparin, Andreas Reisch and Andrey S. Klymchenko*



4549

Molecular substrates for the construction of afterglow imaging probes in disease diagnosis and treatment

Xinzhu Wang and Kanyi Pu*



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Chemical Society Reviews (print: ISSN 0306-0012; electronic: ISSN 1460-4744) is published 24 times a year by the Royal Society of Chemistry, Thomas Graham House, Science Park, Milton Road, Cambridge, UK CB4 0WF.

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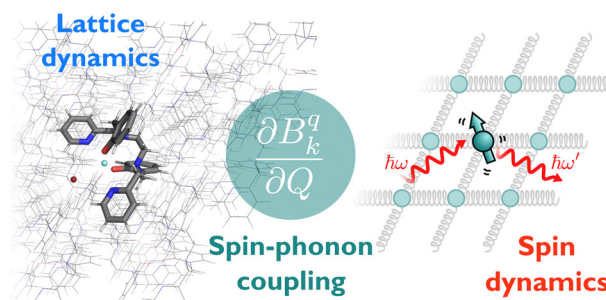


TUTORIAL REVIEWS

4567

Spin–phonon coupling and magnetic relaxation in single-molecule magnets

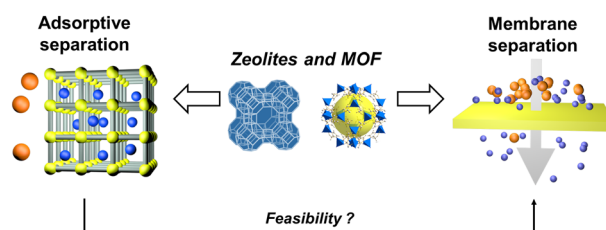
Jon G. C. Kragoskow, Andrea Mattioni,* Jakob K. Staab, Daniel Reta, Jonathan M. Skelton* and Nicholas F. Chilton*



4586

Zeolites and metal–organic frameworks for gas separation: the possibility of translating adsorbents into membranes

Guining Chen, Guozhen Liu, Yang Pan, Gongping Liu,* Xuehong Gu, Wanqin Jin and Nanping Xu

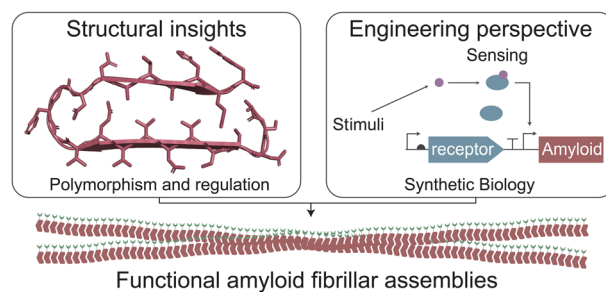


REVIEW ARTICLES

4603

Rational design of functional amyloid fibrillar assemblies

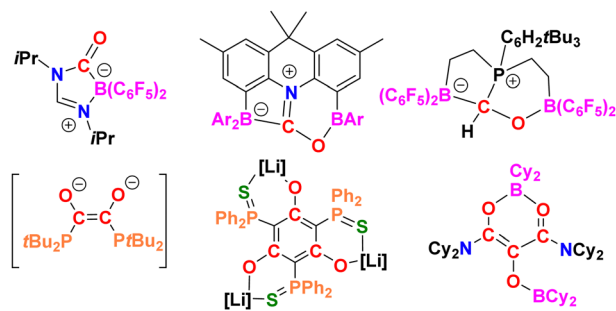
Xinyu Wang, Shengnan Zhang, Jicong Zhang, Yaomin Wang, Xiaoyu Jiang, Youqi Tao, Dan Li, Chao Zhong* and Cong Liu*



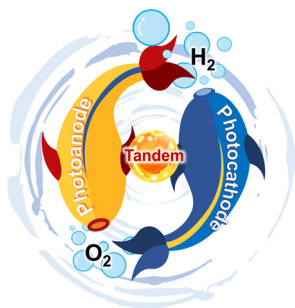
4632

Frustrated Lewis pair chemistry of CO

Douglas W. Stephan



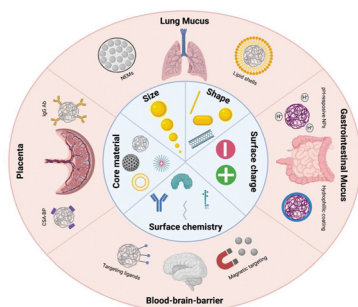
4644



Tandem cells for unbiased photoelectrochemical water splitting

Bin Liu, Shujie Wang, Gong Zhang, Zichen Gong, Bo Wu, Tuo Wang* and Jinlong Gong*

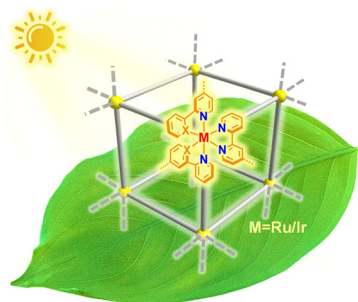
4672



Modulation of engineered nanomaterial interactions with organ barriers for enhanced drug transport

Vincent Lenders, Xanthippi Koutsoumpou, Philana Phan, Stefaan J. Soenen, Karel Allegaert, Steven de Vleeschouwer, Jaan Toelen, Zongmin Zhao and Bella B. Manshian*

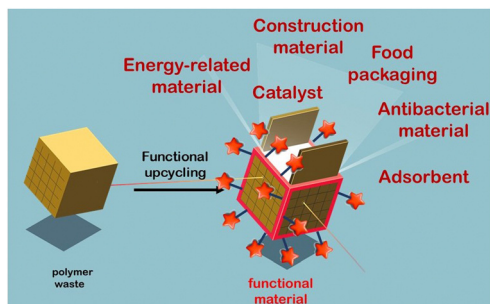
4725



Polypyridyl Ru(II) or cyclometalated Ir(III) functionalized architectures for photocatalysis

Yan-Lin Li, Ai-Juan Li, Sheng-Li Huang,* Jagadese J. Vittal* and Guo-Yu Yang*

4755



“Functional upcycling” of polymer waste towards the design of new materials

Olga Guselnikova,* Oleg Semyonov, Elizaveta Sviridova, Roman Gulyaev, Alina Gorbunova, Dmitry Kogolev, Andrii Trelin, Yusuke Yamauchi, Rabah Boukherroub and Pavel Postnikov*

