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IN THIS ISSUE

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Cover

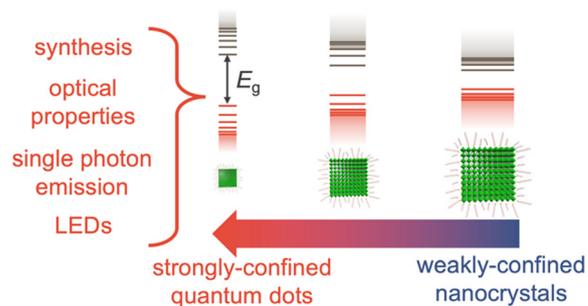
See Lakshminarayana Polavarapu, Robert L. Z. Hoye *et al.*, pp. 8095-8122. Image reproduced by permission of Robert Hoye and Junzhi Ye from *Chem. Soc. Rev.*, 2024, 53, 8095.

TUTORIAL REVIEWS

8095

Strongly-confined colloidal lead-halide perovskite quantum dots: from synthesis to applications

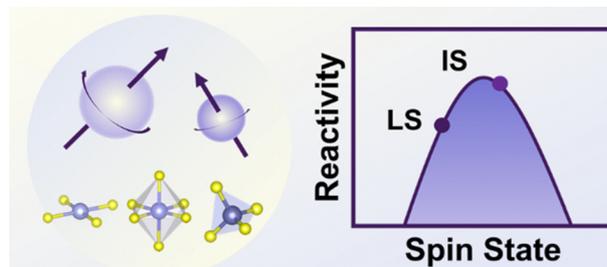
Junzhi Ye, Deepika Gaur, Chenjia Mi, Zijian Chen, Iago López Fernández, Haitao Zhao, Yitong Dong, Lakshminarayana Polavarapu* and Robert L. Z. Hoye*



8123

Spin states of metal centers in electrocatalysis

Yuwei Zhang, Qian Wu, Justin Zhu Yeow Seow, Yingjie Jia, Xiao Ren* and Zhichuan J. Xu*



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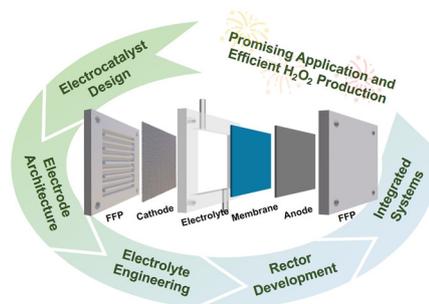


REVIEW ARTICLES

8137

Advancing H₂O₂ electrosynthesis: enhancing electrochemical systems, unveiling emerging applications, and seizing opportunities

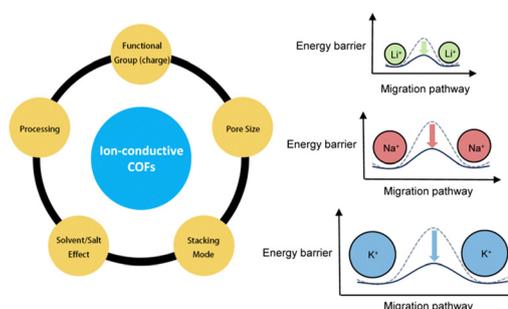
Zhiping Deng, Seung Joon Choi, Ge Li* and Xiaolei Wang*



8182

Ion transport mechanisms in covalent organic frameworks: implications for technology

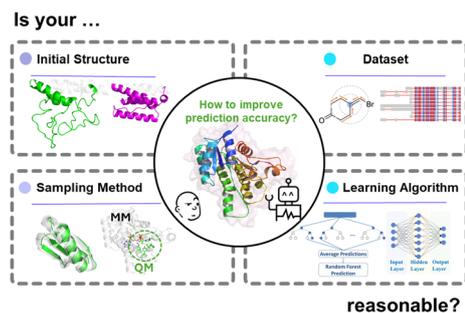
Wonmi Lee, Haochen Li, Zhilin Du and Dawei Feng*



8202

Navigating the landscape of enzyme design: from molecular simulations to machine learning

Jiahui Zhou and Meilan Huang*



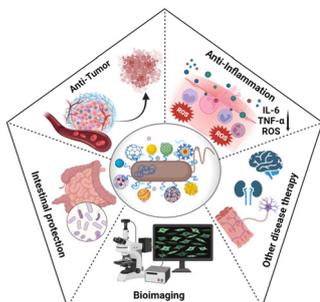
8240

Nature-inspired adhesive systems

Ming Li,* Anran Mao, Qingwen Guan and Eduardo Saiz*



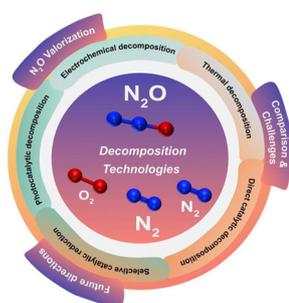
8306



Microbe-material hybrids for therapeutic applications

Meng Chen, Lili Xia, Chenyao Wu, Zeyu Wang, Li Ding,*
Yujie Xie,* Wei Feng* and Yu Chen*

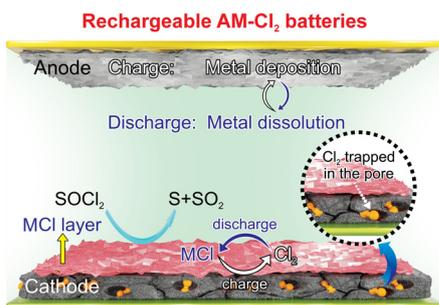
8379



Progress and challenges in nitrous oxide decomposition and valorization

Xuanhao Wu, Jiabin Du, Yanxia Gao, Haiqiang Wang,
Changbin Zhang, Runduo Zhang,* Hong He,*
Gaoqing (Max) Lu* and Zhongbiao Wu*

8424

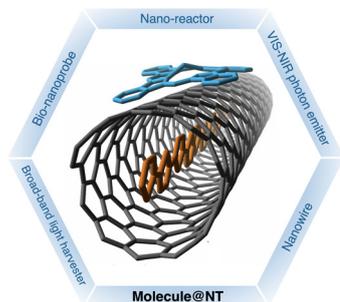


Rechargeable AM-Cl₂ batteries

Rechargeable alkali metal–chlorine batteries: advances, challenges, and future perspectives

Zehui Xie, Lidong Sun, Muhammad Sajid,
Yuancheng Feng, Zhenshan Lv and Wei Chen*

8457



Advanced 1D heterostructures based on nanotube templates and molecules

Charlotte Allard, Laurent Alvarez, Jean-Louis Bantignies,
Nedjma Bendiab, Sofie Cambré, Stephane Campidelli,
Jeffrey A. Fagan, Emmanuel Flahaut, Benjamin Flavel,
Frédéric Fossard, Etienne Gaufres,* Sebastian Heeg,
Jean-Sebastien Lauret, Annick Loiseau,
Jean-Baptiste Marceau, Richard Martel, Laëticia Marty,
Thomas Pichler, Christophe Voisin, Stephanie Reich,
Antonio Setaro, Lei Shi and Wim Wenseleers

