

# Chem Soc Rev

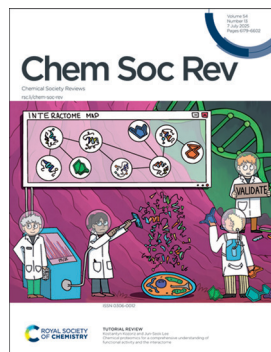
Chemical Society Reviews

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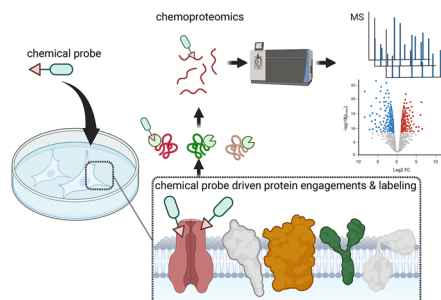
See Kostiantyn Kozoriz and Jun-Seok Lee, pp. 6186-6207. Image reproduced by permission of Kostiantyn Kozoriz and Jun-Seok Lee from *Chem. Soc. Rev.*, 2025, 54, 6186.

## TUTORIAL REVIEW

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### Chemical proteomics for a comprehensive understanding of functional activity and the interactome

Kostiantyn Kozoriz and Jun-Seok Lee\*

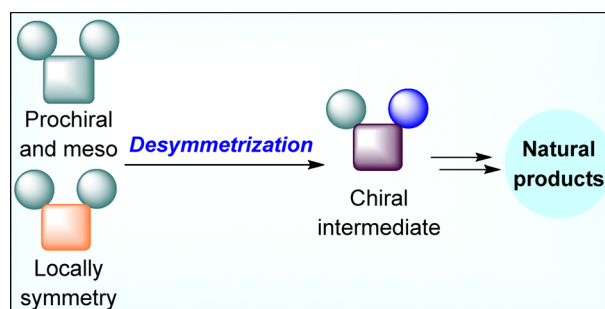


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### Desymmetrization strategy in natural product total synthesis

Haichao Liu,\* Kai Tang, Hao Zeng, Lijun Chen, Hong Liang\* and Yanxing Jia\*



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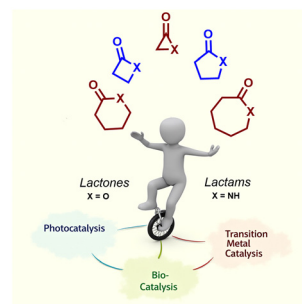


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**Synthesis of lactones and lactams via C(sp<sup>3</sup>)–H bond functionalization**

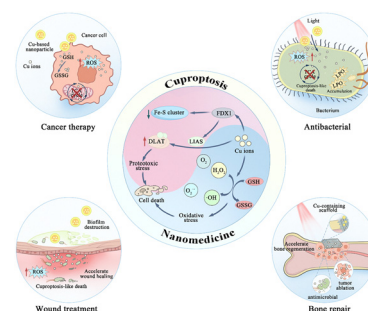
Egambaram Premkumar, Ramdas Sreedharan, Premananda Ghosh, Tanay Pal, Debabrata Maiti\* and Thirumanavelan Gandhi\*



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**Cuproptosis: mechanisms and nanotherapeutic strategies in cancer and beyond**

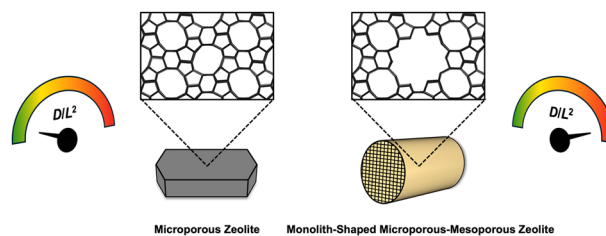
Lijie Mao, Ji Lu, Xinyu Wen, Zhiyi Song, Cai Sun, Yuanru Zhao, Fang Huang, Si Chen, Dongyang Jiang, Wenliang Che, Cheng Zhong, Chen Yu, Ke Li,\* Xiangyu Lu\* and Jianlin Shi\*



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**Chemical engineering of zeolites: alleviating transport limitations through hierarchical design and shaping**

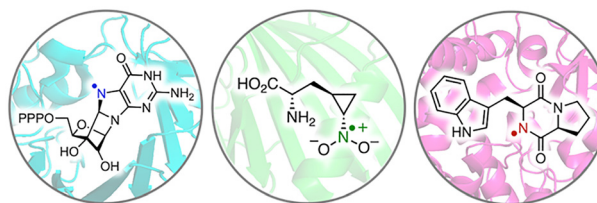
Nibras Hijazi, Anastasiya Bavykina, Irina Yarulina, Tuiana Shoinkhorova, Enrique V. Ramos-Fernandez and Jorge Gascon\*



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**Nitrogen-centered radicals driving unusual enzyme reactions in biosynthetic pathways**

Richiro Ushimaru\* and Ikuro Abe\*

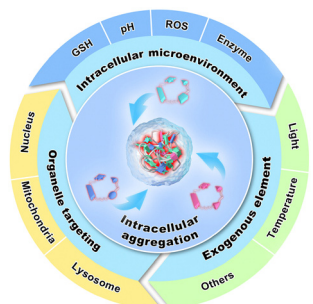


*N-centered radicals in enzyme reactions*



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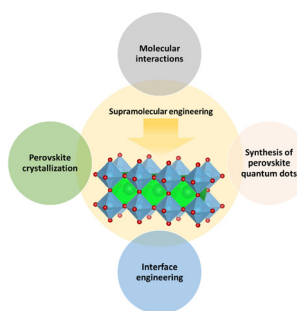
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### Intracellular aggregation of exogenous molecules for biomedical applications

Da-Yong Hou, Haoran Wang,\* Yue-Ze Wang, Dong-Bing Cheng,\* Ben Zhong Tang\* and Wanhai Xu\*

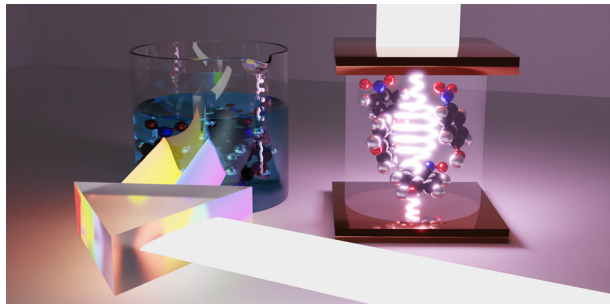
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### Supramolecular engineering in hybrid perovskite optoelectronics

Tzu-Sen Su, Anurag Krishna, Chenxu Zhao, Junhao Chu and Hong Zhang\*

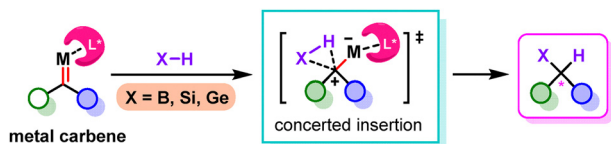
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### When do molecular polaritons behave like optical filters?

Kai Schwennicke, Arghadip Koner, Juan B. Pérez-Sánchez, Wei Xiong, Noel C. Giebink, Marissa L. Weichman and Joel Yuen-Zhou\*

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### Recent advances in catalytic asymmetric metalloid–hydrogen bond insertion of transition-metal carbenes

Shuyue Zhang and Ming-Hua Xu\*

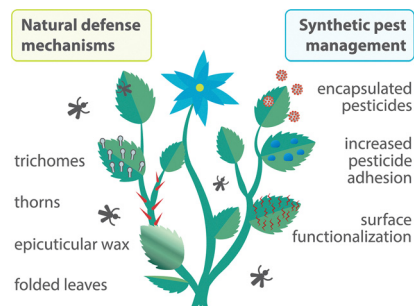


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**Turning over a new leaf: innovative pest control from a materials science perspective**

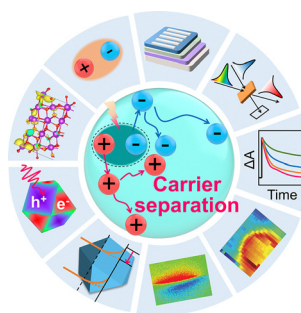
Abinaya Arunachalam, Maria Perraki, Bram Knecht, Mirka Macel, Dagmar Voigt and Marleen Kamperman\*



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**Transfer dynamics of photo-generated carriers in catalysis**

Jun Wang, Wanru Liao, Yao Tan, Olivier Henrotte, Yicui Kang, Kang Liu, Junwei Fu, Zhang Lin, Liyuan Chai, Emiliano Cortes\* and Min Liu\*



## CORRECTIONS

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**Correction: Decoding recombination dynamics in perovskite solar cells: an in-depth critical review**

Ramkrishna Das Adhikari, Mayur Jagdishbhai Patel, Himangshu Baishya, Deepak Yadav, Manab Kalita, Mizanur Alam and Parameswar Krishnan Iyer\*

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**Correction: Unified approaches in transition metal catalyzed C(sp<sup>3</sup>)-H functionalization: recent advances and mechanistic aspects**

Jagrit Grover, Amal Tom Sebastian, Siddhartha Maiti, Alex C. Bissember\* and Debabrata Maiti\*

