

# Chem Soc Rev

Chemical Society Reviews

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## IN THIS ISSUE

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### Cover

See Yi Lu, Siqi Huan, Long Bai, Orlando J. Rojas *et al.*, pp. 7363–7391. Image reproduced by permission of Ayako Takagi from *Chem. Soc. Rev.*, 2024, 53, 7363. Image credit: Ayako Takagi.



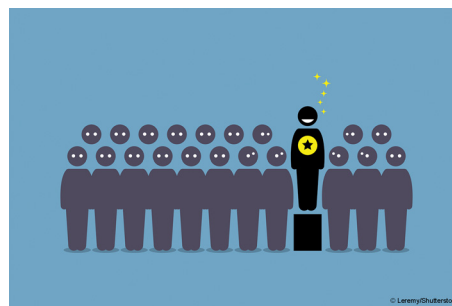
### Inside cover

See Hong Liu, Xiaowen Yu *et al.*, pp. 7392–7425. Image reproduced by permission of Hong Liu and Xiaowen Yu from *Chem. Soc. Rev.*, 2024, 53, 7392.

## EDITORIAL

7308

### Outstanding Reviewers for *Chemical Society Reviews* in 2023

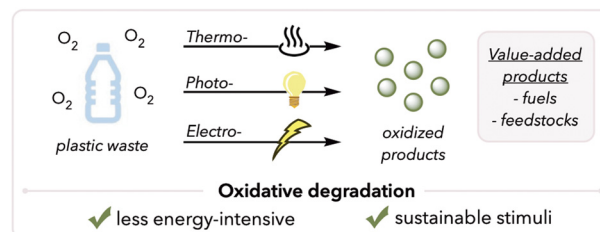


## TUTORIAL REVIEWS

7309

### Recent advances in oxidative degradation of plastics

Sewon Oh and Erin E. Stache\*



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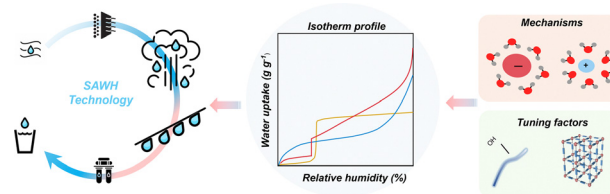


## TUTORIAL REVIEWS

7328

## Chemistries and materials for atmospheric water harvesting

Chuxin Lei, Weixin Guan, Yaxuan Zhao and Guihua Yu\*

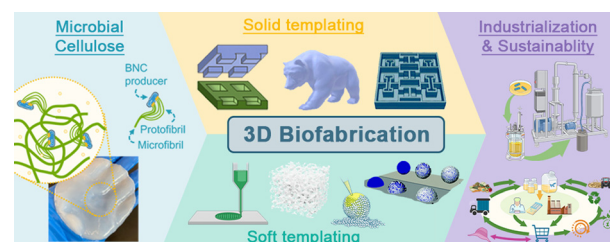


## REVIEW ARTICLES

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## Biofabrication with microbial cellulose: from bioadaptive designs to living materials

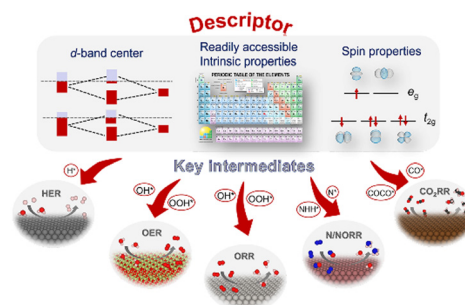
Yi Lu,\* Marina Mehling, Siqi Huan,\* Long Bai\* and Orlando J. Rojas\*



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## Advancing electrocatalytic reactions through mapping key intermediates to active sites via descriptors

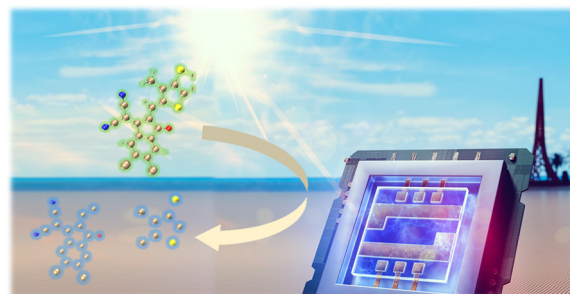
Xiaowen Sun, Rafael B. Araujo, Egon Campos dos Santos, Yuanhua Sang, Hong Liu\* and Xiaowen Yu\*



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## Understanding photochemical degradation mechanisms in photoactive layer materials for organic solar cells

Jianhua Han,\* Han Xu, Sri Harish Kumar Paleti, Anirudh Sharma and Derya Baran\*





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## Fluorescent probes for targeting the Golgi apparatus: design strategies and applications

Silin Xu, Kai-Cheng Yan, Zhi-Hong Xu,\* Yuan Wang\* and Tony D. James\*

