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### IN THIS ISSUE

ISSN 0306-0012 CODEN CSRVBR 53(14) 7301–7634 (2024)



#### Cover

See Yi Lu, Siqi Huan, Long Bai, Orlando J. Rojas *et al.*, pp. 7363–7391.  
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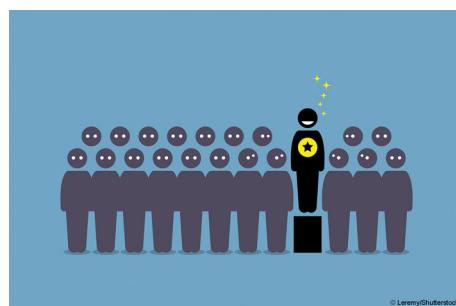
#### Inside cover

See Hong Liu, Xiaowen Yu *et al.*, pp. 7392–7425.  
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### EDITORIAL

7308

Outstanding Reviewers for *Chemical Society Reviews* in 2023

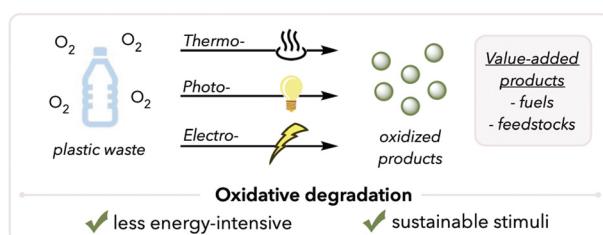


### TUTORIAL REVIEWS

7309

Recent advances in oxidative degradation of plastics

Sewon Oh and Erin E. Stache\*



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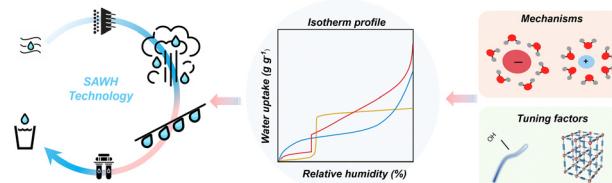


## TUTORIAL REVIEWS

7328

## Chemistries and materials for atmospheric water harvesting

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

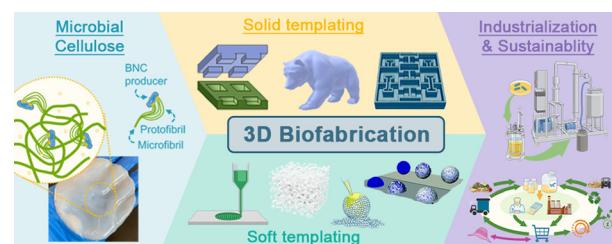


## REVIEW ARTICLES

7363

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

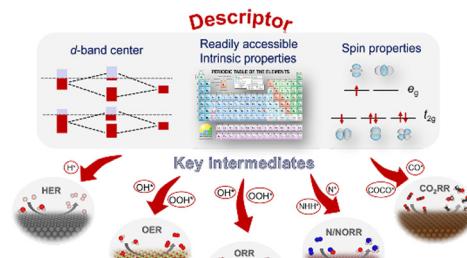
Yi Lu,\* Marina Mehling, Siqi Huan,\* Long Bai\* and Orlando J. Rojas\*



7392

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

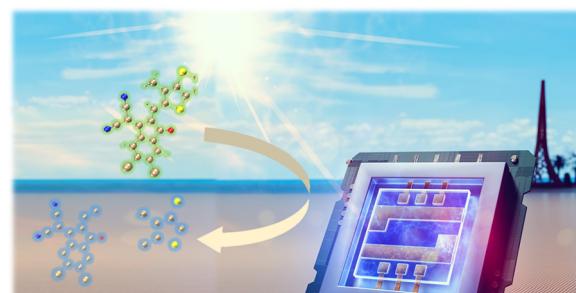
Xiaowen Sun, Rafael B. Araujo, Egon Campos dos Santos, Yuanhua Sang, Hong Liu\* and Xiaowen Yu\*



7426

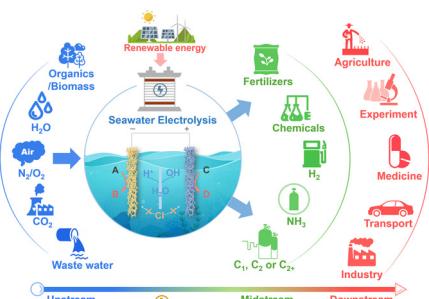
## Understanding photochemical degradation mechanisms in photoactive layer materials for organic solar cells

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



## REVIEW ARTICLES

7455



# Seawater electrolysis for fuels and chemicals production: fundamentals, achievements, and perspectives

Lin Chen, Chang Yu,\* Junting Dong, Yingnan Han, Hongling Huang, Wenbin Li, Yafang Zhang, Xinyi Tan and Jieshan Qiu\*

7489



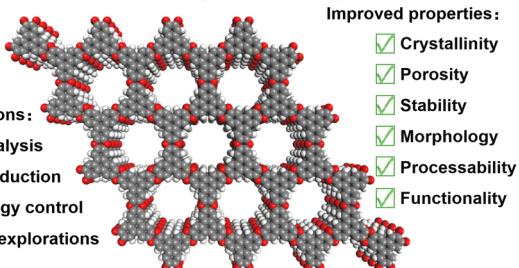
# Renewable biomass-based aerogels: from structural design to functional regulation

Linfeng Chen, Xiaoxiao Yu, Mengyue Gao, Chengjian Xu, Junyan Zhang, Xinhai Zhang,\* Meifang Zhu and Yanhua Cheng\*

7531

## **Catalyst and auxiliaries development in the synthesis of COFs**

- Applications:
- Photocatalysis
- Scale production
- Morphology control
- Methods exploration

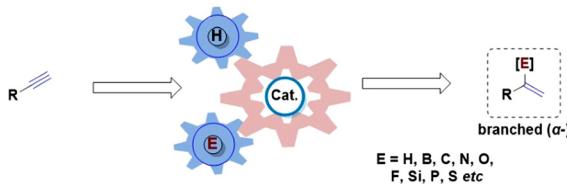


## The development of catalysts and auxiliaries for the synthesis of covalent organic frameworks

Wei Zhao, Qiang Zhu, Xiaofeng Wu and Dan Zhao\*

7566

## Metal-catalyzed Markovnikov-type selective hydrofunctionalization of terminal alkynes:



## Metal-catalyzed Markovnikov-type selective hydrofunctionalization of terminal alkynes

Jieping Chen, Wen-Ting Wei, Zhuocheng Li and  
Zhan Lu\*

7306 | *Chem. Soc. Rev.*, 2024, 53, 7303-7307

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## REVIEW ARTICLES

7590

**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\*

