

## IN THIS ISSUE

ISSN 0306-0012 CODEN CSRVBR 52(9) 2869-3300 (2023)



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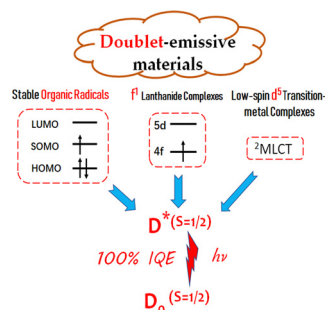
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## TUTORIAL REVIEWS

2875

### Doublet-emissive materials for organic light-emitting diodes: exciton formation and emission processes

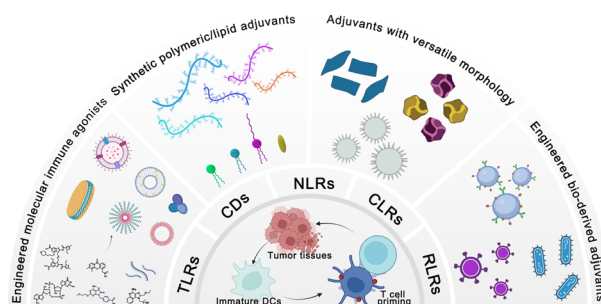
Shengxiang Gao, Zhiyuan Cui and Feng Li\*



2886

### Materials engineering strategies for cancer vaccine adjuvant development

Xuanbo Zhang, Bowei Yang, Qianqian Ni\* and Xiaoyuan Chen\*



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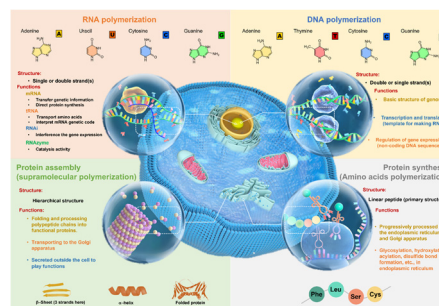


## REVIEW ARTICLES

2911

## Polymerization in living organisms

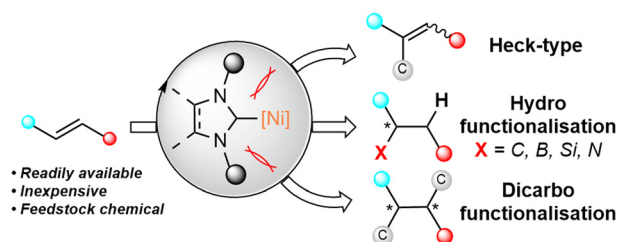
Dan Wu, Jiaqi Lei, Zhankui Zhang, Feihe Huang,\*  
Marija Buljan and Guocan Yu\*



2946

## N-Heterocyclic carbenes as privileged ligands for nickel-catalysed alkene functionalisation

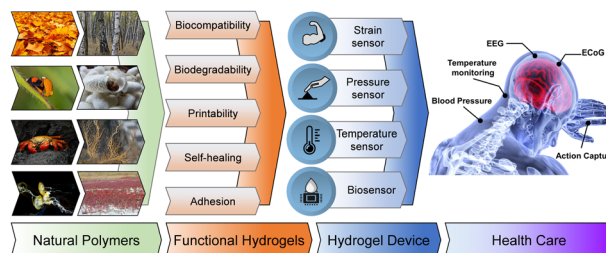
Boon Chong Lee, Chen-Fei Liu, Leroy Qi Hao Lin,  
Kang Zheng Yap, NingXi Song, Charyl Hui Min Ko,  
Priscilla Hee Chan and Ming Joo Koh\*



2992

## Naturally sourced hydrogels: emerging fundamental materials for next-generation healthcare sensing

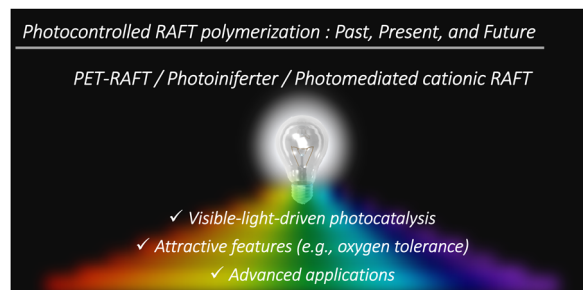
Zhenwu Wang, Hua Wei, Youju Huang,\* Yen Wei\* and  
Jing Chen\*



3035

## Photocontrolled RAFT polymerization: past, present, and future

Yungyeong Lee, Cyrille Boyer\* and Min Sang Kwon\*



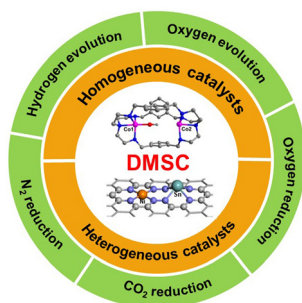
3098



### Mechanical properties and peculiarities of molecular crystals

Wegood M. Awad, Daniel W. Davies, Daichi Kitagawa, Jad Mahmoud Halabi, Marieh B. Al-Handawi, Ibrahim Tahir, Fei Tong, Gonzalo Campillo-Alvarado, Alexander G. Shtukenberg, Tamador Alkhidir, Yuki Hagiwara, Mubarak Almehairbi, Linfeng Lan, Shodai Hasebe, Durga Prasad Karothu, Sharmarke Mohamed,\* Hideko Koshima,\* Seiya Kobatake,\* Ying Diao,\* Rajadurai Chandrasekar,\* Hongyu Zhang,\* Changquan Calvin Sun,\* Christopher Bardeen,\* Rabih O. Al-Kaysi,\* Bart Kahr\* and Panče Naumov\*

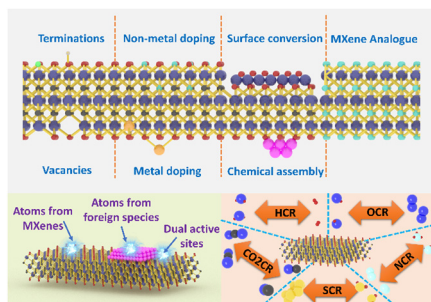
3170



### Dinuclear metal synergistic catalysis for energy conversion

Di-Chang Zhong, Yun-Nan Gong, Chao Zhang and Tong-Bu Lu\*

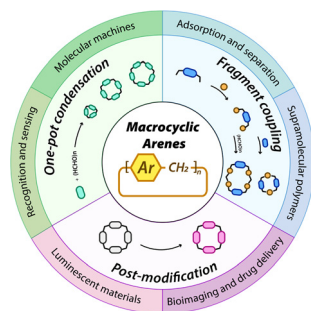
3215



### Engineering strategies and active site identification of MXene-based catalysts for electrochemical conversion reactions

Yufei Zhao, Jinqiang Zhang,\* Xin Guo, Xianjun Cao, Shijian Wang, Hao Liu\* and Guoxiu Wang\*

3265



### Recent advances in the synthesis and applications of macrocyclic arenes

Xiao-Ni Han, Ying Han\* and Chuan-Feng Chen\*

