

# Chem Soc Rev

Chemical Society Reviews

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## IN THIS ISSUE

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### Cover

See Ji Young Hyun, Hyun Soo Lee, Injae Shin *et al.*, pp. 9446–9489.

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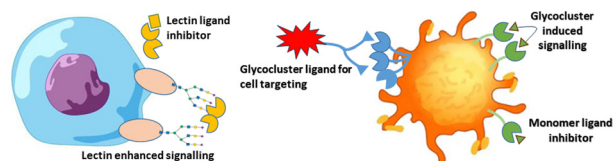
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## TUTORIAL REVIEW

9428

### Small lectin ligands as a basis for applications in glycoscience and glycomedicine

Paul V. Murphy,\* Ashis Dhara, Liam S. Fitzgerald, Eoin Hever, Saidulu Konda and Kishan Mandal

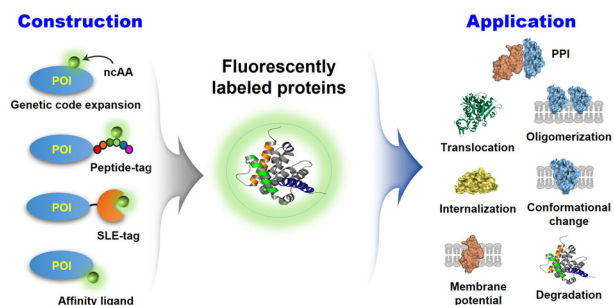


## REVIEW ARTICLES

9446

### Selective fluorescent labeling of cellular proteins and its biological applications

Joo Hee Choi, Sooin Kim, On-Yu Kang, Seong Yun Choi, Ji Young Hyun,\* Hyun Soo Lee\* and Injae Shin\*



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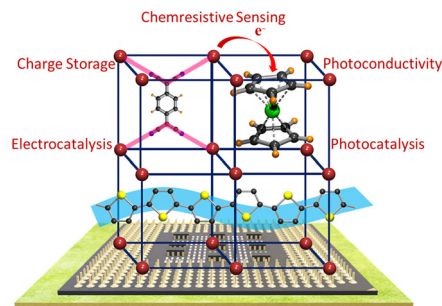


## REVIEW ARTICLES

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**Extrinsically conducting MOFs: guest-promoted enhancement of electrical conductivity, thin film fabrication and applications**

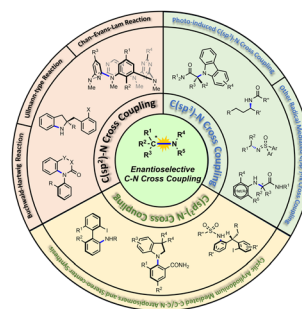
Rajat Saha\* and Carlos J. Gómez García\*



9560

**Transition-metal-catalyzed enantioselective C–N cross-coupling**

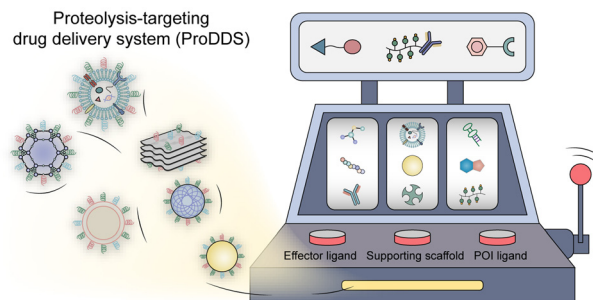
Jia Feng, Long-Long Xi, Chuan-Jun Lu and Ren-Rong Liu\*



9582

**Proteolysis-targeting drug delivery system (ProDDS): integrating targeted protein degradation concepts into formulation design**

Yu Chen, Fengyuan Liu, Samira Pal and Quanyin Hu\*



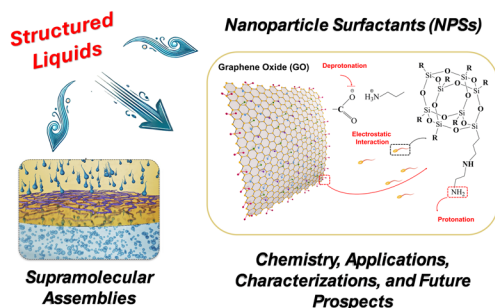
9609

**Closed-loop recyclable polymers: from monomer and polymer design to the polymerization–depolymerization cycle**

Shuaiqi Yang, Shuai Du, Jin Zhu and Songqi Ma\*



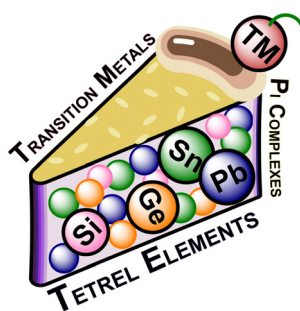
9652



### Chemistry, applications, and future prospects of structured liquids

Ahmadreza Ghaffarkhah, Seyyed Alireza Hashemi, Ali Akbar Isari, Mahyar Panahi-Sarmad, Feng Jiang, Thomas P. Russell, Orlando J. Rojas\* and Mohammad Arjmand\*

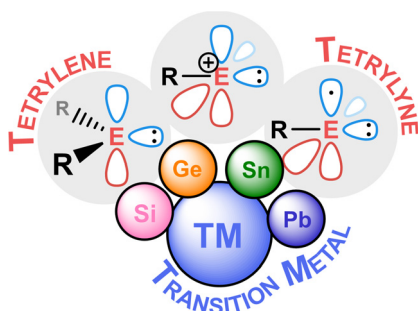
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### Heavier group 14-transition metal $\pi$ -complex congeners

Terrance J. Hadlington

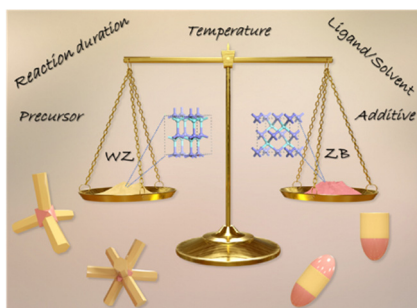
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### Heavier tetrylene- and tetrylyne-transition metal chemistry: it's no carbon copy

Terrance J. Hadlington\*

9832



### Polytypic metal chalcogenide nanocrystals

Liang Wu, Yi Li, Guo-Qiang Liu and Shu-Hong Yu\*

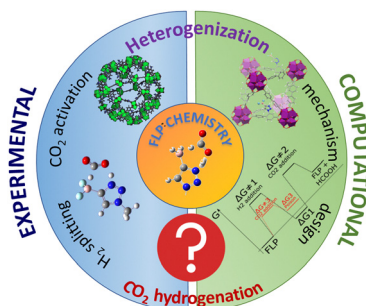


## REVIEW ARTICLES

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### Experimental and computational aspects of molecular frustrated Lewis pairs for CO<sub>2</sub> hydrogenation: en route for heterogeneous systems?

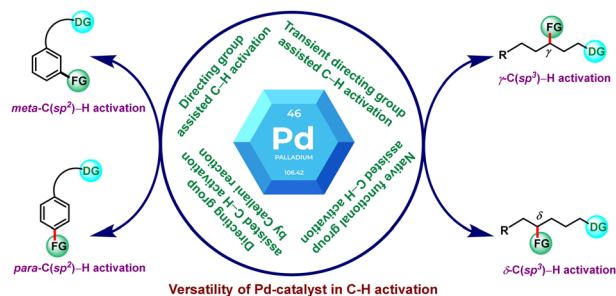
Riddhi Kumari Riddhi, Francesc Penas-Hidalgo, Hongmei Chen, Elsje Alessandra Quadrelli, Jérôme Canivet,\* Caroline Mellot-Draznieks\* and Albert Solé-Daura\*



9904

### Pd-catalyzed regioselective activation of C(sp<sup>2</sup>)-H and C(sp<sup>3</sup>)-H bonds

Wajid Ali, Gwyndaf A. Oliver, Daniel B. Werz\* and Debabrata Maiti\*



## CORRECTION

9954

### Correction: Recent progress in SERS monitoring of photocatalytic reactions

Xinlu Zheng, Ziwei Ye, Zeeshan Akmal, Chun He, Jinlong Zhang and Lingzhi Wang\*

