

# Chem Soc Rev

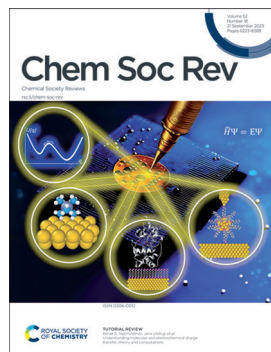
Chemical Society Reviews

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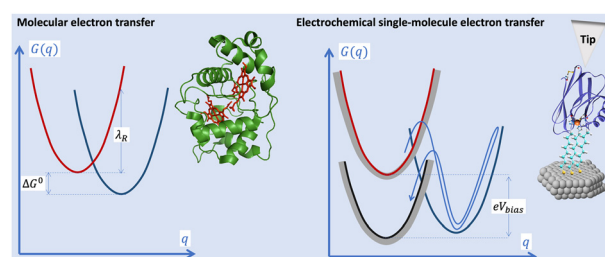
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## TUTORIAL REVIEWS

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### Understanding molecular and electrochemical charge transfer: theory and computations

Renat R. Nazmutdinov,\* Shokirbek A. Shermokhamedov, Tamara T. Zinkicheva, Jens Ulstrup\* and Xinxin Xiao

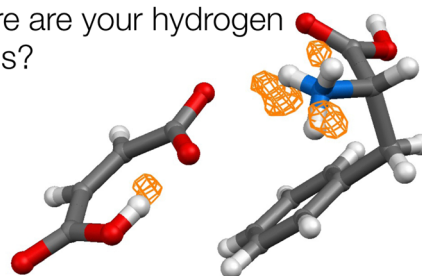


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### Hydrogen atoms in supramolecular chemistry: a structural perspective. Where are they, and why does it matter?

Amber L. Thompson\* and Nicholas G. White\*

Where are your hydrogen atoms?



Maybe not where you think!



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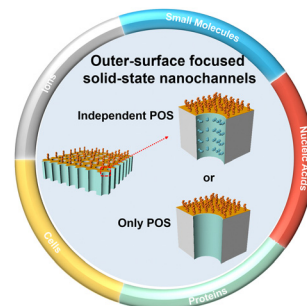


## TUTORIAL REVIEWS

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## Solid-state nanochannels for bio-marker analysis

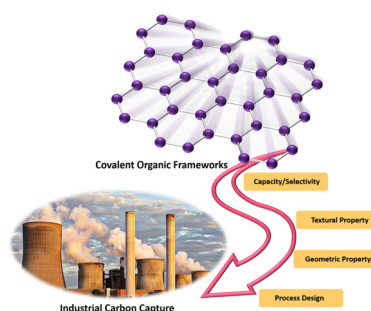
Yu Huang, Lingxiao Liu, Cihui Luo, Wei Liu, Xiaoding Lou, Lei Jiang and Fan Xia\*



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Covalent organic frameworks for CO<sub>2</sub> capture: from laboratory curiosity to industry implementation

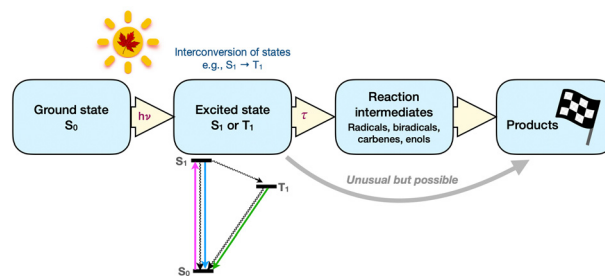
He Li, Akhil Dilipkumar, Saifudin Abubakar and Dan Zhao\*



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## A beginners guide to understanding the mechanisms of photochemical reactions: things you should know if light is one of your reagents

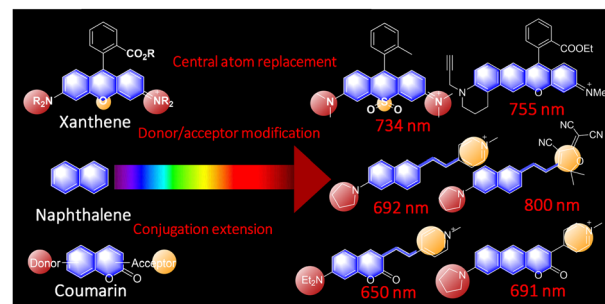
Juan C. Scaiano



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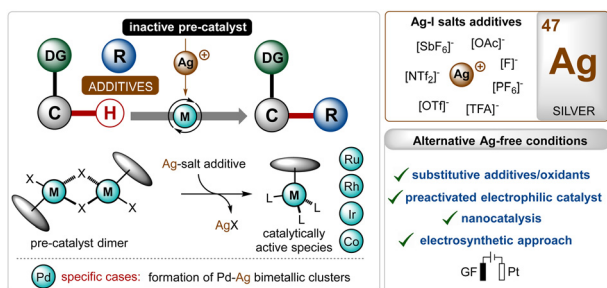
## Strategies to convert organic fluorophores into red/near-infrared emitting analogues and their utilization in bioimaging probes

Mingchong Dai,\* Yun Jae Yang, Sourav Sarkar and Kyo Han Ahn\*



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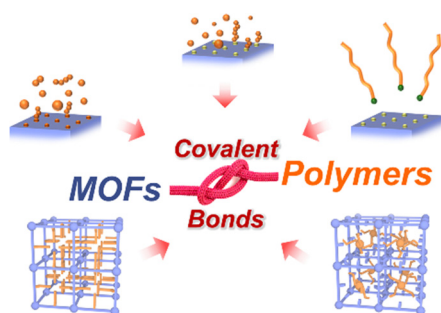
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## The crucial role of silver(I)-salts as additives in C–H activation reactions: overall analysis of their versatility and applicability

Renato L. de Carvalho, Emilay B. T. Diogo,  
Simon L. Homölle, Suman Dana,  
Eufrânio N. da Silva Júnior\* and Lutz Ackermann\*

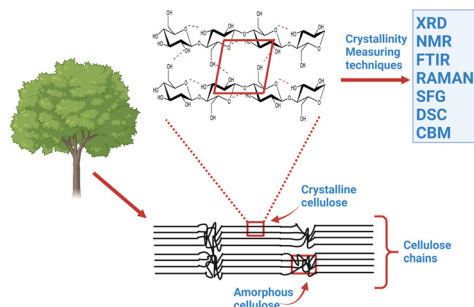
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## Covalent connections between metal–organic frameworks and polymers including covalent organic frameworks

Jonghyeon Lee, Jooyeon Lee, Jin Yeong Kim\* and  
Min Kim\*

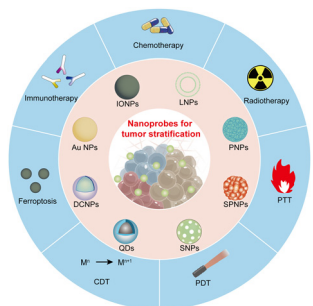
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Khandoker Samaher Salem,\* Nitesh Kumar Kasera,  
Md. Ashiqur Rahman, Hasan Jameel, Youssef Habibi,  
Stephen J. Eichhorn, Alfred D. French,  
Lokendra Pal\* and Lucian A. Lucia\*

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## Nanoprobe-based molecular imaging for tumor stratification

Xianbin Ma, Mingchuan Mao, Jiaqi He, Chao Liang and  
Hai-Yan Xie\*

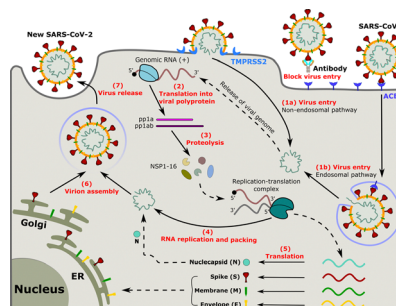


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Hung Nguyen, Hoang Linh Nguyen, Pham Dang Lan, Nguyen Quoc Thai, Mateusz Sikora and Mai Suan Li\*



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## Label-free optical biosensing: going beyond the limits

Andrei V. Kabashin,\* Vasyl G. Kravets and Alexander N. Grigorenko\*

