

# MSDE

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**Cover**  
See Igor L. Medintz et al., pp. 679–704.  
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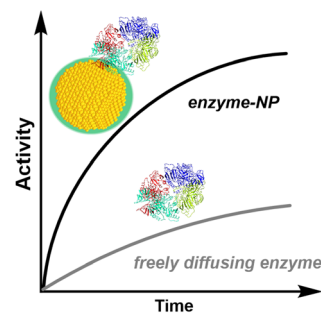
**Inside cover**  
See Kunal Roy et al., pp. 729–743.  
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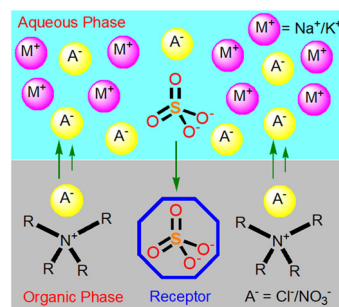
Shelby L. Hooe, Joyce C. Breger and Igor L. Medintz\*



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#### A molecular-design approach for selective sulfate separation from competitive acidic and alkaline aqueous media

Arghya Basu\* and Sandeep Kumar Dey\*





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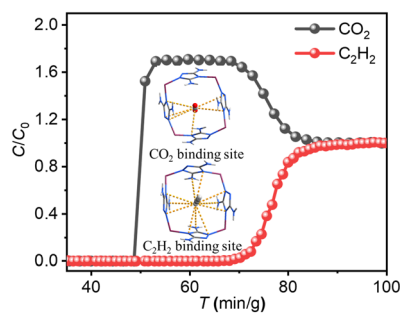


## COMMUNICATION

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### A Zn(II) pillared-layer ultramicroporous metal-organic framework with matching molecular pockets for C<sub>2</sub>H<sub>2</sub>/CO<sub>2</sub> separation

Rong Yang, Yu Wang,\* Tao Zhang, Zhen Xu,\*  
Jian-Wei Cao and Kai-Jie Chen\*

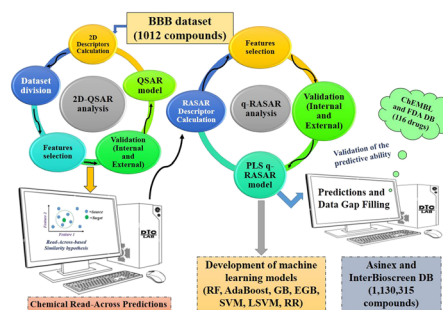


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### Innovative strategies for the quantitative modeling of blood-brain barrier (BBB) permeability: harnessing the power of machine learning-based q-RASAR approach

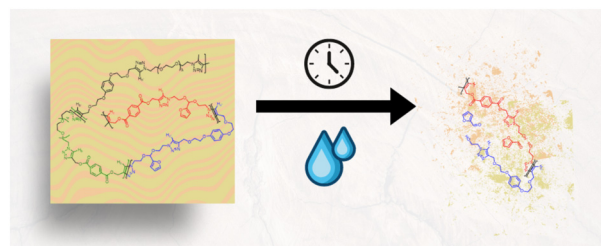
Vinay Kumar, Arkaprava Banerjee and Kunal Roy\*



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### Biobased copoly(acetal-triazole)s with tunable degradable properties

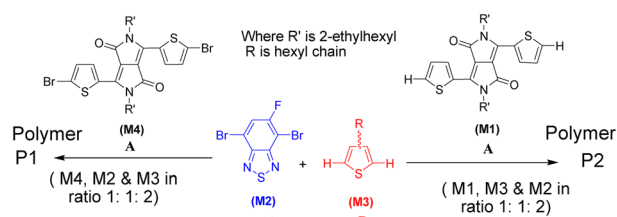
Joseph C. Daniels, Guery Saenz and Colleen N. Scott\*



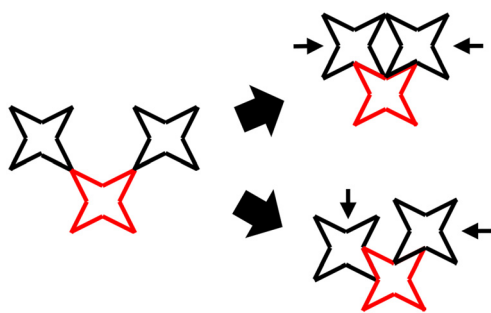
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### Impact of composition ratio of donor and acceptor moieties in conjugated polymer: optical and electrochemical properties

Shahjad and Asit Patra\*



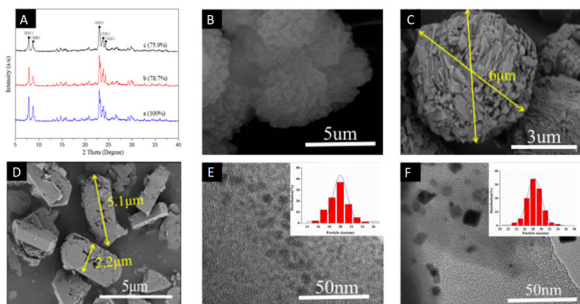
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### DNA nanostar structures with tunable auxetic properties

Yancheng Du, Ruixin Li, Anirudh S. Madhvacharyula, Alexander A. Swett and Jong Hyun Choi\*

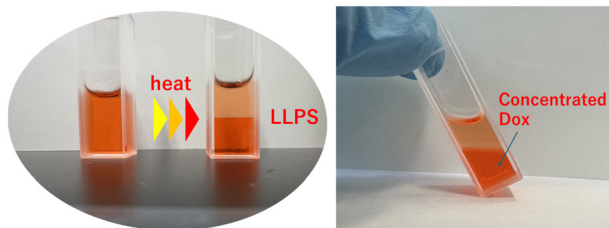
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### Direct detection as a probe of platinum nanoparticles encapsulated in MFI zeolite nanocrystallite aggregates

Yaning Liu, Mengxue Gao, Chunming Zhong, Yi Wu, Xiaoyuan Liao, Shuxiang Lv, Yan Jiang, Qiong Li\* and Yue Yao\*

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### Liquid metal–polymer nano-microconjugations as an injectable and photo-activatable drug carrier

Tomoka Hirose, Robin Rajan, Eijiro Miyako\* and Kazuaki Matsumura\*

