

# MSDE

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#### Cover

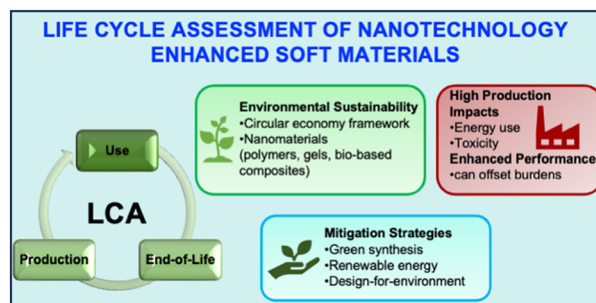
See Randall Q. Snurr *et al.*, pp. 817–835.  
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### REVIEW

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#### Lifecycle analysis of nanotechnology-enhanced soft materials in the circular economy

Sanduni Dabare, Sisitha Rajapaksha\* and Imalka Munaweera\*

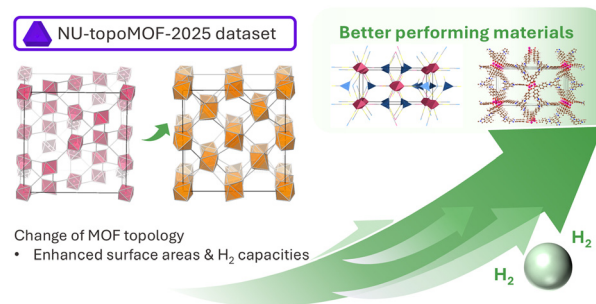


### PAPERS

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#### Computational investigation of the impact of metal-organic framework topology on hydrogen storage capacity

Kunhuan Liu, Haoyuan Chen, Timur Islamoglu, Andrew S. Rosen, Xijun Wang, Omar K. Farha and Randall Q. Snurr\*





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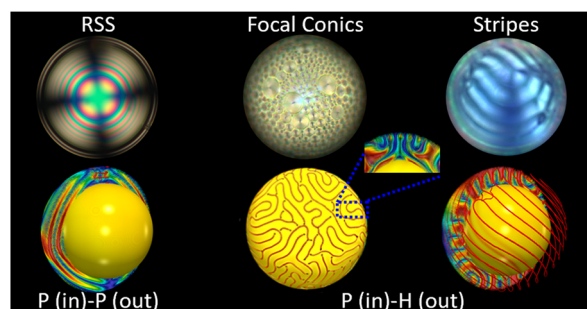
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### Curved confinement directs anchoring-mediated structural transitions in highly chiral liquid crystal shells

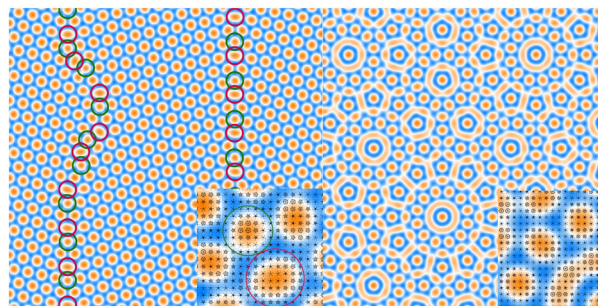
Sepideh Norouzi, Jeremy Money, Stiven Villada-Gil, José A. Martínez-González and Monirosadat Sadati\*



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### Grain boundaries in periodic vs. in aperiodic crystals composed of colloids with preferred binding angles

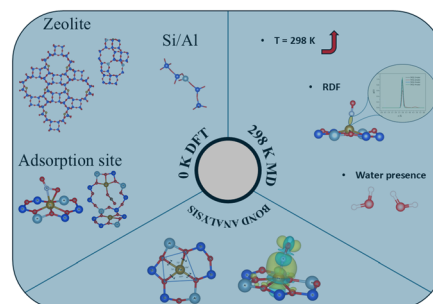
Robert F. B. Weigel and Michael Schmiedeberg\*



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### Computational screening analysis of iron zeolites for selectively capturing NO<sub>x</sub> and CO over H<sub>2</sub>O and CO<sub>2</sub>

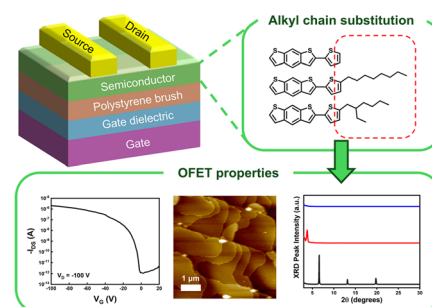
Ioannis Karamanis, David Dell'Angelo, Hubert Monnier and Michael Badawi\*

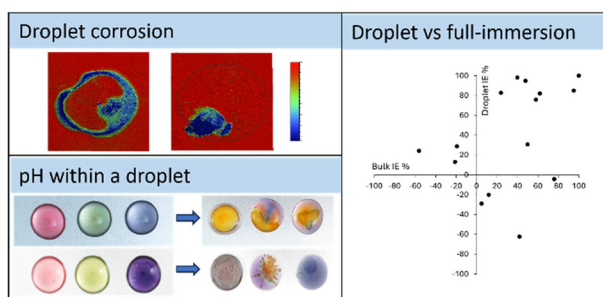


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### Impact of molecular tailoring of benzo[1,2-*b*:5,4-*b'*] dithiophene derivatives via side chain substitution on solution-processable organic field-effect transistors

Hwijoong Kim, Hongseok Jang, Jae-Jin Lee, Suk-Won Choi, Choongik Kim\* and SungYong Seo\*





## Evaluation of corrosion inhibitor performance under droplet conditions on steel

Chathumini Samarawickrama,\* Sebastian Pöhlker, Philipp Eiden, Xiaobo Chen, Paul White, Patrick Keil and Ivan Cole

