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Cover
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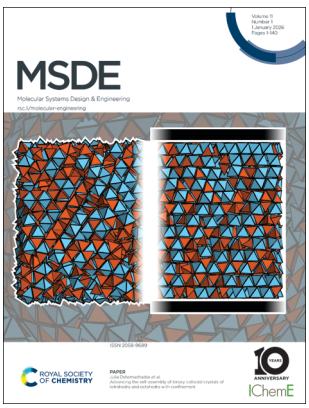

Inside cover
See Julia Dshemuchadse *et al.*, pp. 62–69.
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REVIEW

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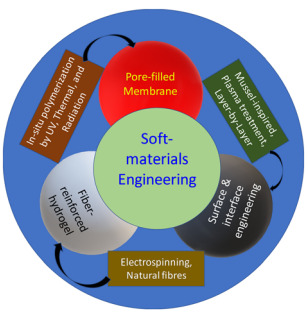
Soft material engineered synthetic polymer membranes: bridging design and application

Ashok K. Pandey*



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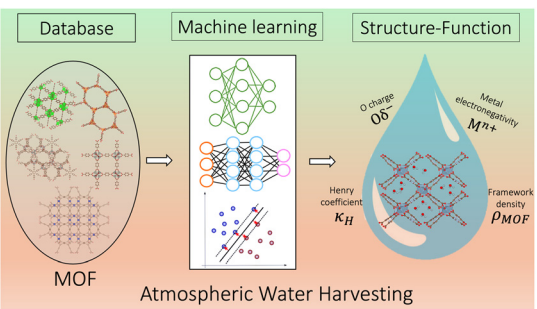
Machine learning highlights chemistry as the key factor in metal–organic frameworks for atmospheric water harvesting

Nour Alkhatib, Saifeldeen Abed Alrhman and Serdal Kirmizialtin*



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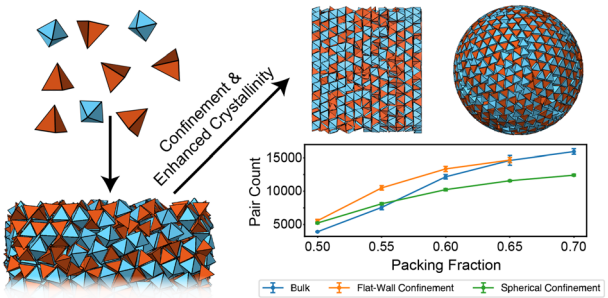
Advancing the self-assembly of binary colloidal crystals of tetrahedra and octahedra with confinement

Nathan C. Huang, Rachael S. Skye and Julia Dshemuchadse*



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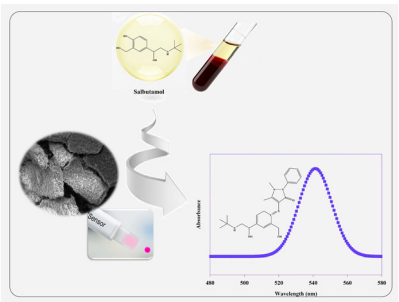
Integrated computational and experimental design of copper–gallic acid nanozymes for selective salbutamol detection

Fatemeh Parad, Fahimeh Ghasemi, Parisa Khadiv-Parsi, Haider Al Amili, Parna Keramati, Somayeh Mojtabavi* and Mohammad Ali Faramarzi*



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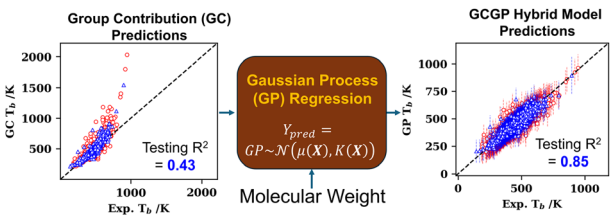
Enhanced thermophysical property prediction with uncertainty quantification using group contribution-Gaussian process regression

Barnabas P. Agbodekhe, Montana N. Carlozo, Dinis O. Abranches, Kyla D. Jones, Alexander W. Dowling* and Edward J. Maginn*



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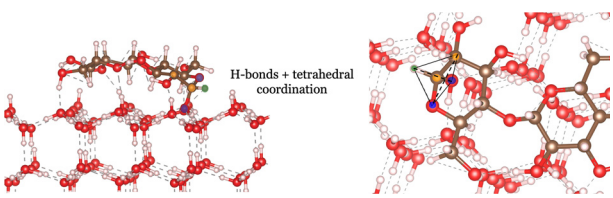
A first-principles examination of the ice–cellulose interface: towards bioinspired antifreeze design

Aakash Kumar* and Dilip Gersappe*



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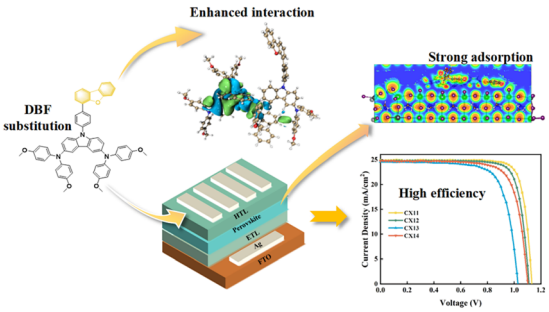

Strategy for the isomerization of dibenzo[*b*,*d*]furan-based carbazole derivatives as hole transporting materials for perovskite solar cells: theoretical design and experimental study

Xin Chen, Jiayi Qi, Xin Jiang, Fei Wu* and Xiaorui Liu*

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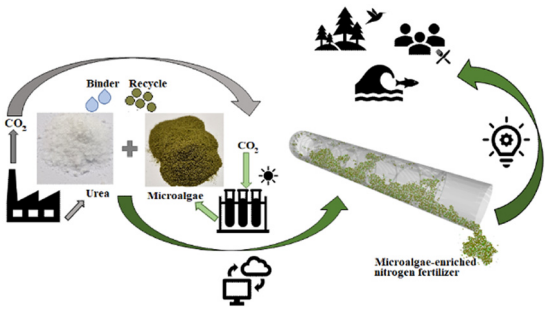

Simulation of the microalgae-enriched nitrogen fertilizer granulation mechanism using the DEM method

Rasa Šlinkšienė,* Vaidas Bivainis and Austėja Mikolaitienė

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