

MSDE

Molecular Systems Design & Engineering rsc.li/molecular-engineering

The Royal Society of Chemistry is the world's leading chemistry community. Through our high impact journals and publications we connect the world with the chemical sciences and invest the profits back into the chemistry community.

IN THIS ISSUE

ISSN 2058-9689 CODEN MSDEBG 10(3) 171-230 (2025)



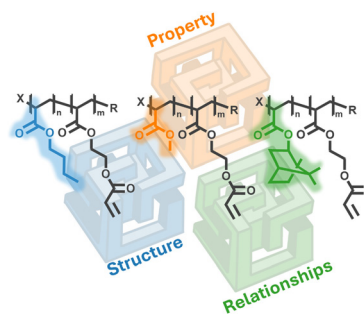
Cover
Image credit: © Aislan13/Getty
Images

PAPERS

176

Investigating the design of macromolecular-based inks for two-photon 3D laser printing

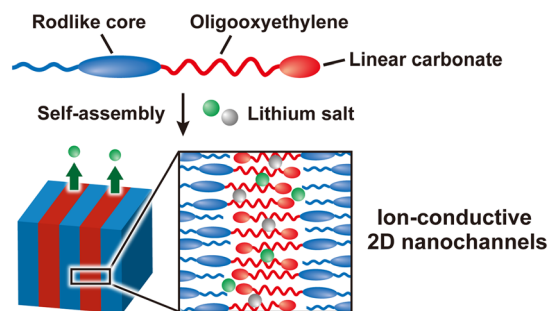
Samantha O. Catt, Clara Vazquez-Martel and Eva Blasco*



184

Nanostructured liquid-crystalline ion conductors based on linear carbonate moieties: effects of oligooxyethylene and alkylene spacers on self-assembled properties and ionic conductivities

Junya Uchida, Shingo Takegawa, Soshi Ito, Shunsuke Sato, Go Watanabe and Takashi Kato*



RSC Applied Interfaces

GOLD
OPEN
ACCESS

Interfacial and surface research with an applied focus

Interdisciplinary and open access

rsc.li/RSCApplInter

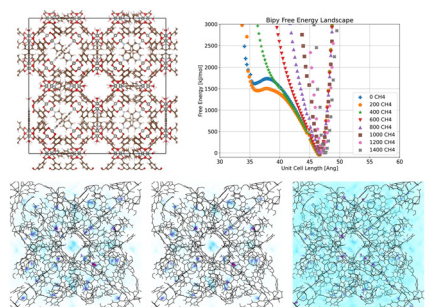
Fundamental questions
Elemental answers



194

Understanding stable adsorption states in flexible soft porous coordination polymers through free energy profiles

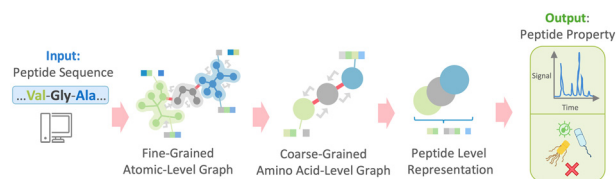
James E. Carpenter, Jean Galliano Vega Díaz, Johnathan Robinson and Yamil J. Colón*



205

PepMNet: a hybrid deep learning model for predicting peptide properties using hierarchical graph representations

Daniel Garzon Otero, Omid Akbari and Camille Bilodeau*



219

Process-based screening of porous materials for vacuum swing adsorption based on 1D classical density functional theory and PC-SAFT

Fabian Mayer, Benedikt Buhk, Johannes Schilling, Philipp Rehner, Joachim Gross and André Bardow*

