MSDE

Molecular Systems Design & Engineering
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Cover
See Michael Badawi *et al.*,
pp. 1165–1181.
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Hubert Monnier &
Michael Badawi from *Mol. Syst. Des. Eng.*, 2023, **8**, 1165.

EDITORIAL

REVIEW

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Mol. Syst. Des. Eng., 2023, **8**, 1091–1094 | **1091**

MSDE

Molecular Systems Design & Engineering
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Building and designing systems from the molecular level

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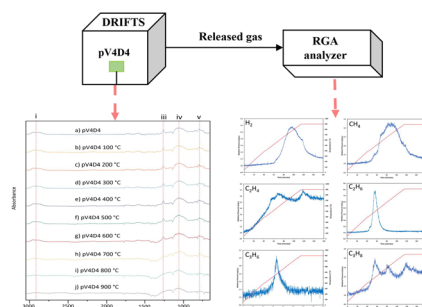
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Time-resolved *operando* analysis of the pyrolysis of a PECVD-deposited siloxane polymer using a combined DRIFTS–MS system
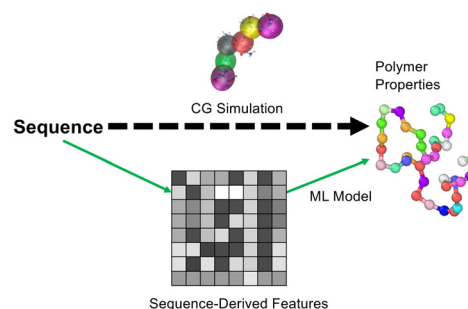
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Tzu-Hsuan Chao, Shiv Rekhi, Jeetain Mittal and Daniel P. Tabor*

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Precursor design for efficient synthesis of large-pore, sulfur-doped ordered mesoporous carbon through direct pyrolysis

Mark Robertson, Anthony Griffin, Alejandro Guillen Obando, Andrew Barbour, Ryan Davis and Zhe Qiang*

- Rapid reaction kinetics
- Highly ordered, large mesopores
- Sulfur doped framework
- Low cost and widely available precursors
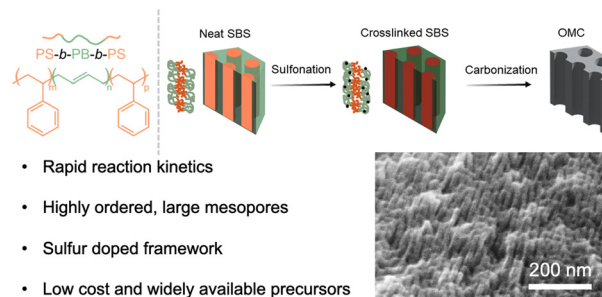
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A systematic DFT screening of cationic faujasite-type zeolites for the adsorption of NO, NO_2 and H_2O

Ioannis Karamanis, Ayoub Daouli, Hubert Monnier, Marie-Antoinette Dziurla, Guillaume Maurin and Michael Badawi*

PAPERS
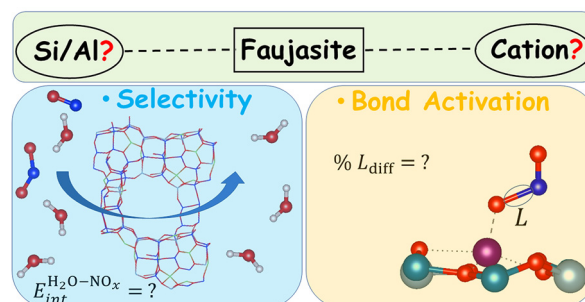
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Theoretical design of molecularly imprinted polypyrrole biosensor for the detection of renal failure biomarkers

Elham Rajaee, Mohammad Izadyar*
and Mohammad Reza Housaindokht

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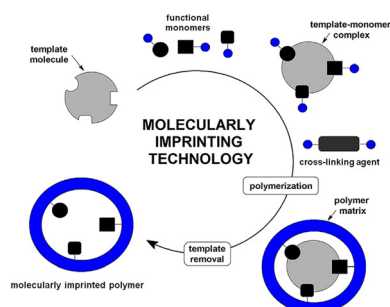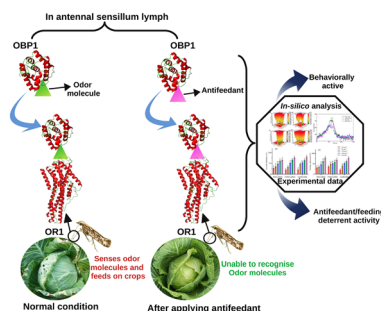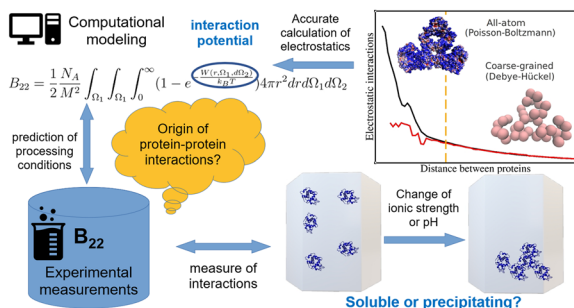**Bioactive molecules of *Triadica sebifera* as eco-friendly antifeedants against *Plutella xylostella*: a pest management approach**

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Accurate calculation of second osmotic virial coefficients of proteins using mixed Poisson–Boltzmann and extended DLVO theory

Srdjan Pusara, Wolfgang Wenzel and Mariana Kozlowska*

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