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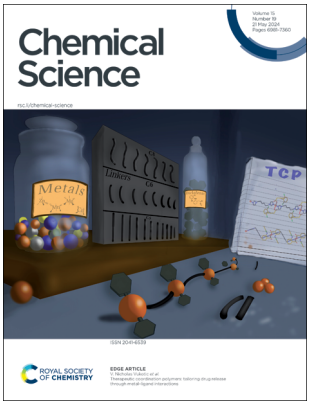
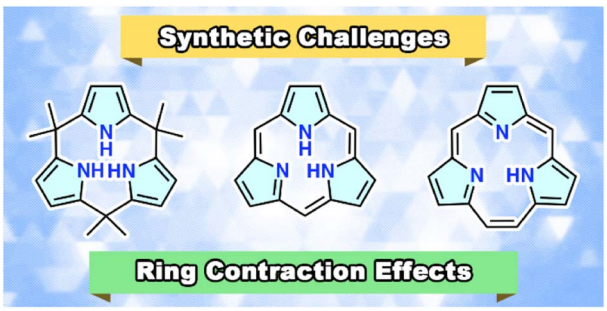
Cover
See Takahiro Ichikawa, Takeshi Yamada *et al.*, pp. 7034–7040. Image reproduced by permission of Takahiro Ichikawa from *Chem. Sci.*, 2024, **15**, 7034.

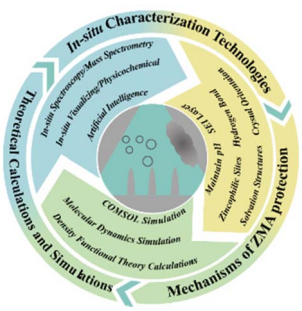


Inside cover
See V. Nicholas Vukotic *et al.*, pp. 7041–7050. Image reproduced by permission of V. Nicholas Vukotic from *Chem. Sci.*, 2024, **15**, 7041. Artwork by Ethan T. Douglas.

PERSPECTIVE



REVIEW



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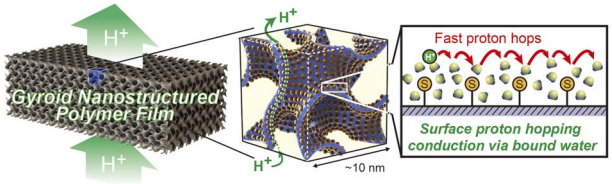

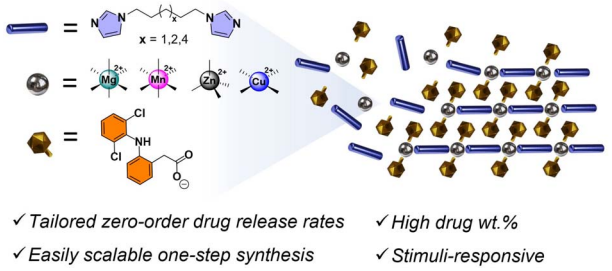

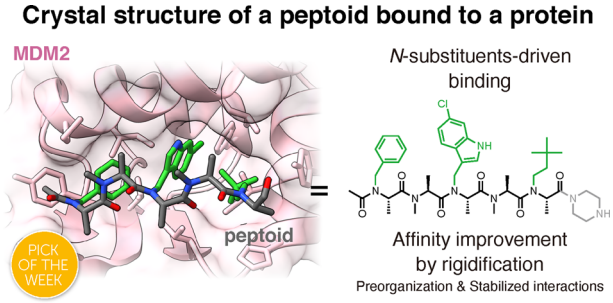

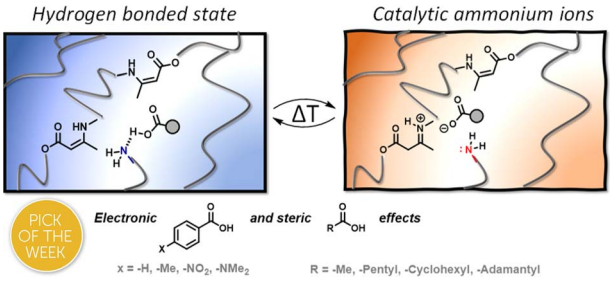

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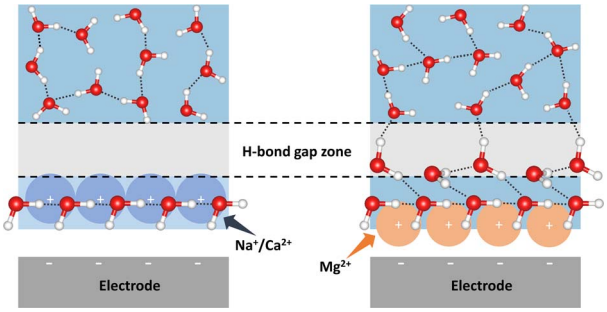

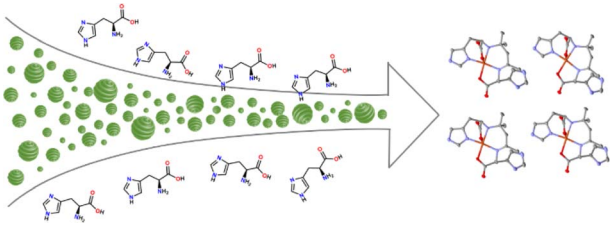

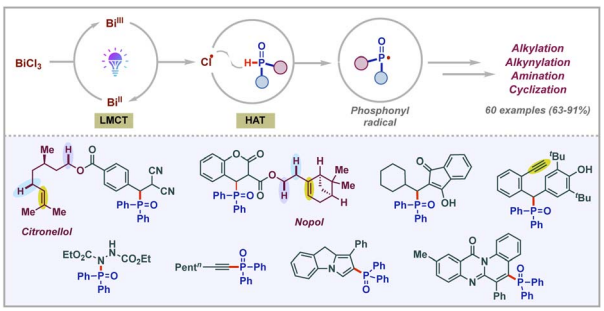

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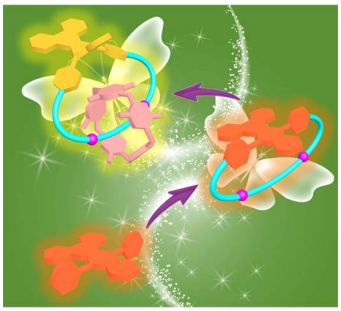

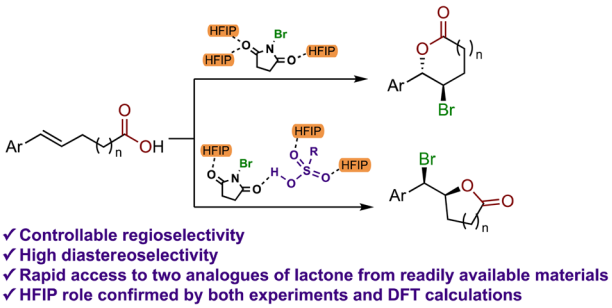

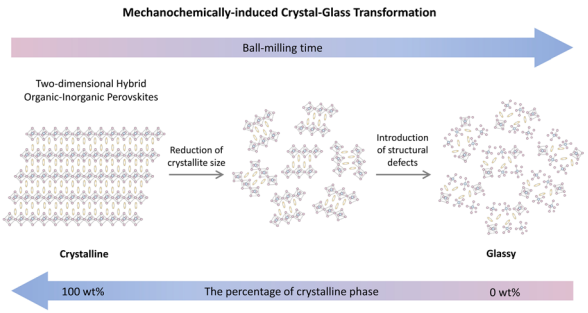

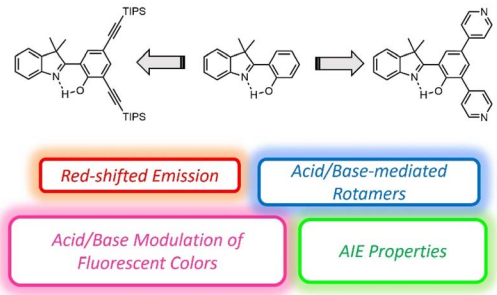

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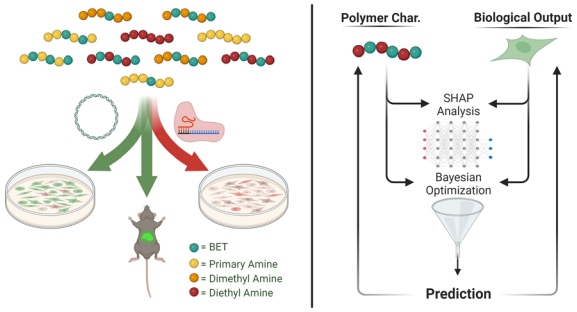
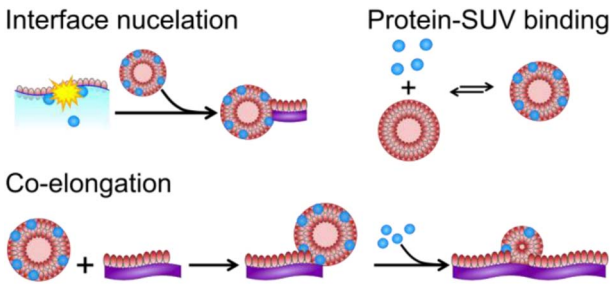


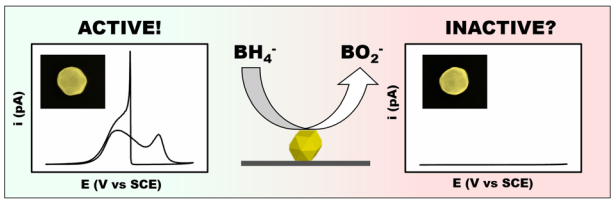
Polymer design *via* SHAP and Bayesian machine learning optimizes pDNA and CRISPR ribonucleoprotein delivery

Rishad J. Dalal, Felipe Oviedo, Michael C. Leyden and Theresa M. Reineke*



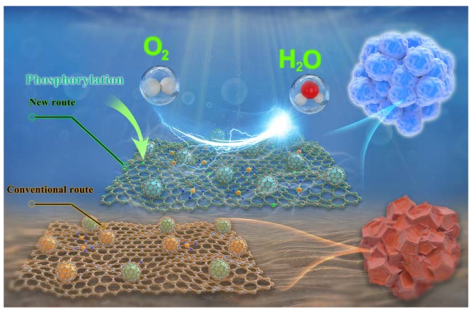
Molecular mechanism of α-synuclein aggregation on lipid membranes revealed

Alexander J. Dear, Xiangyu Teng, Sarah R. Ball, Joshua Lewin, Robert I. Horne, Daniel Clow, Alisdair Stevenson, Natasha Harper, Kim Yahya, Xiaoting Yang, Suzanne C. Brewerton, John Thomson, Thomas C. T. Michaels, Sara Linse, Tuomas P. J. Knowles, Johnny Habchi* and Georg Meisl*



Drop-cast gold nanoparticles are not always electrocatalytically active for the borohydride oxidation reaction

Lachlan F. Gaudin, Alison M. Funston and Cameron L. Bentley*



Sharply expanding single-atomically dispersed Fe–N active sites through bidirectional coordination for oxygen reduction

Huihui Jin, Ruohan Yu, Pengxia Ji, Weihao Zeng, Zhengying Li,* Daping He* and Shichun Mu*

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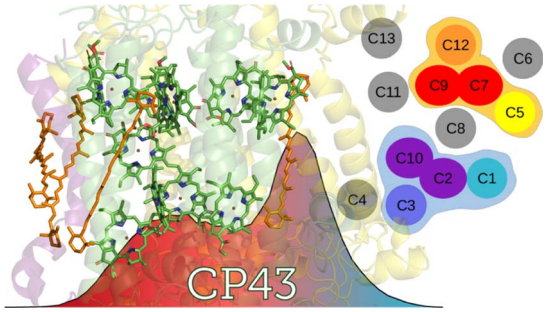

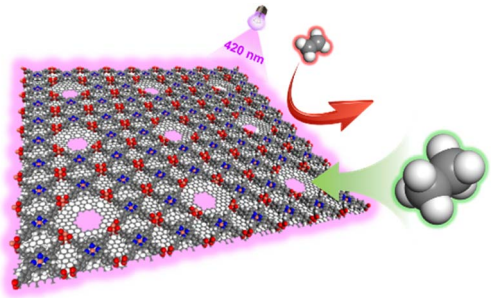

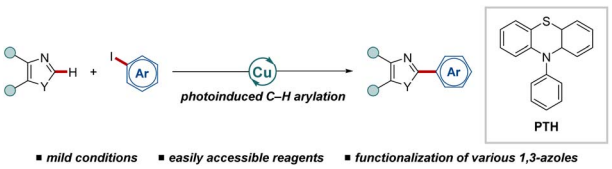

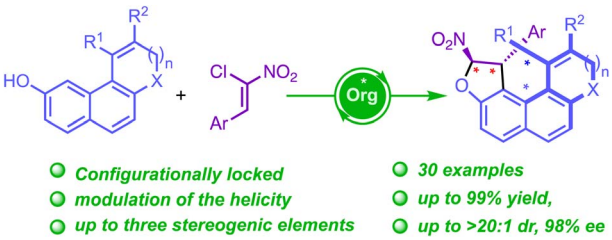

EDGE ARTICLES

Evolving better solvate electrolytes for lithium secondary batteries

Frederik Philippi,* Maleen Middendorf, Keisuke Shigenobu, Yuna Matsuyama, Oriele Palumbo, David Pugh, Taku Sudoh, Kaoru Dokko, Masayoshi Watanabe, Monika Schönhoff, Wataru Shinoda and Kazuhide Ueno