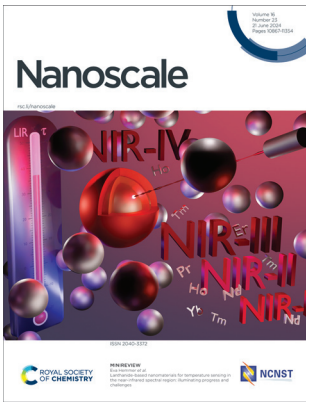
Nanoscale

rsc.li/nanoscale

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

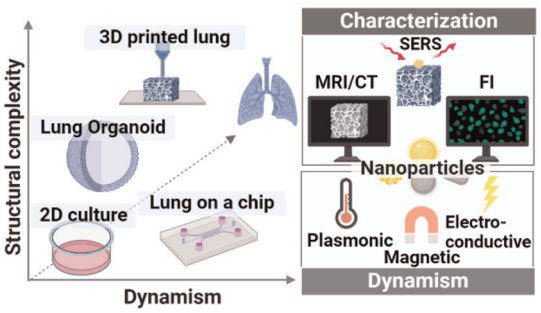
ISSN 2040-3372 CODEN NANOHL 16(23) 10867–11354 (2024)

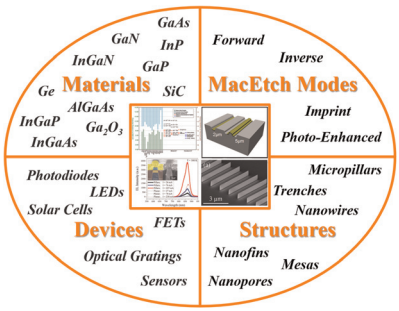


Cover
See Eva Hemmer *et al.*, pp. 10975–10993.

Image reproduced by permission of Eva Hemmer from *Nanoscale*, 2024, **16**, 10975.

REVIEWS





ROYAL SOCIETY OF CHEMISTRY

Environmental Science: Atmospheres

GOLD OPEN ACCESS

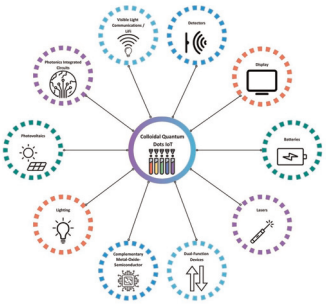
Connecting communities and inspiring new ideas

rsc.li/submittoEA

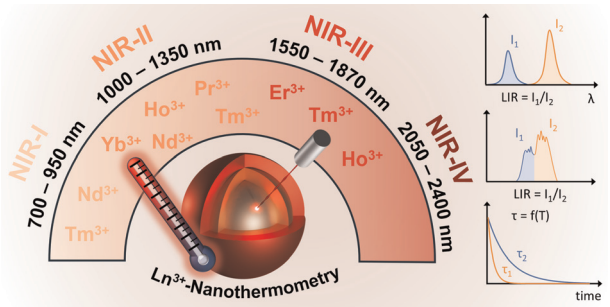
Fundamental questions
Elemental answers

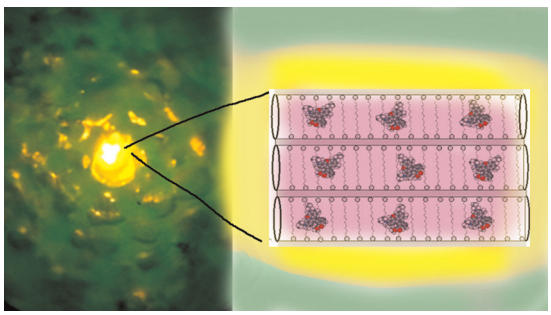
Registered charity number: 207890

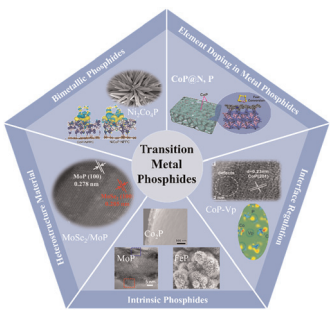
REVIEWS



MINIREVIEWS





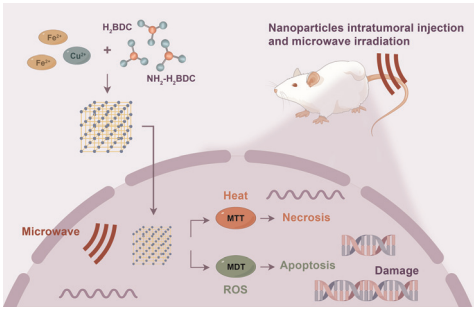


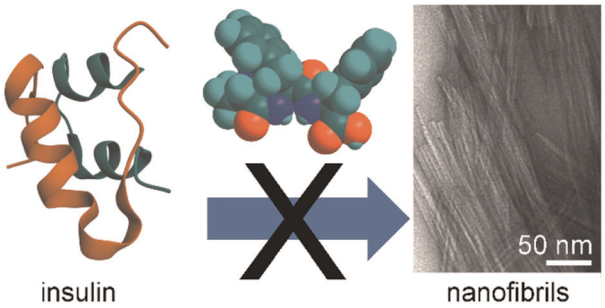
MINIREVIEWS

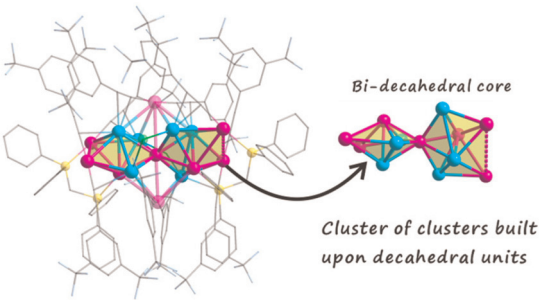
COMMUNICATION

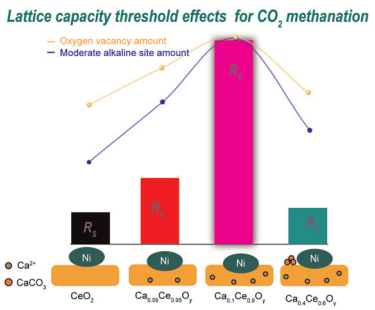
PAPERS

PAPERS



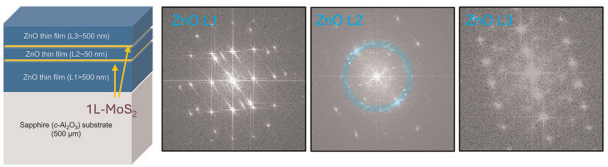


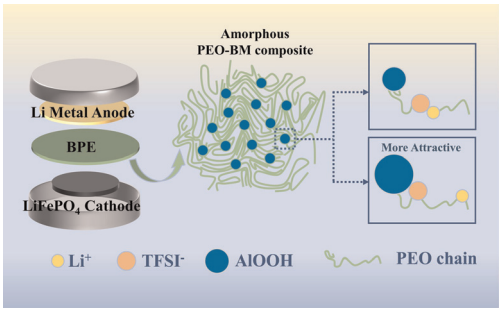


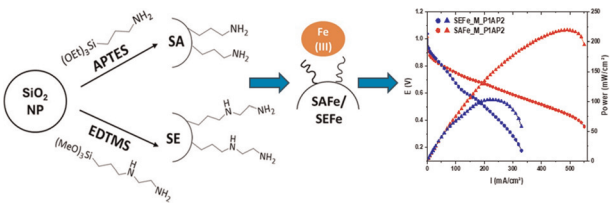


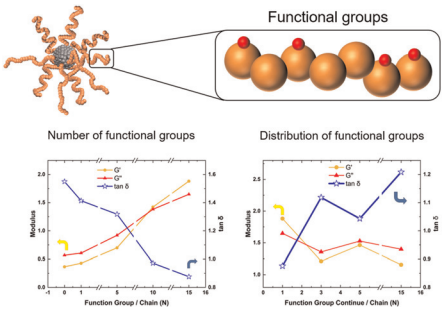
PAPERS

PAPERS



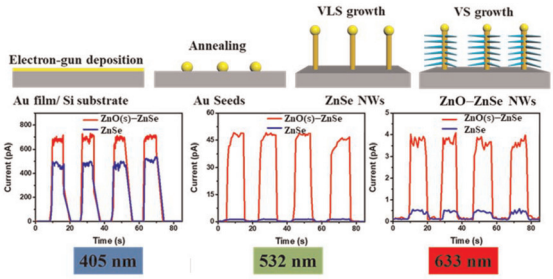






PAPERS

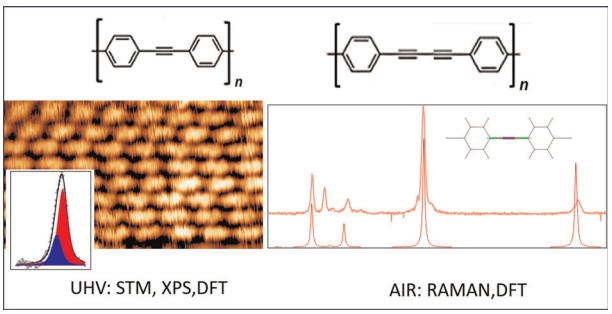
11203



Rational design of comb-like 1D–1D ZnO–ZnSe heterostructures toward their excellent performance in flexible photodetectors

Ming-Jin Liu, Hsuan-Chu Chen, Tse-Ning Yang, Shu-Chi Wu, Yao-Jen Kuo, Ruei-Hong Cyu, Yu-Ren Peng and Yu-Lun Chueh*

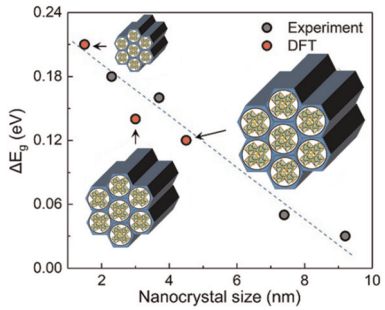
11211



Structure and vibrational properties of 1D molecular wires: from graphene to graphdiyne

Francesco De Boni, Roberto Pilot, Alberto Milani, Viktoria V. Ivanovskaya, Raichel J. Abraham, Stefano Casalini, Danilo Pedron, Carlo S. Casari, Mauro Sambi and Francesco Sedona*

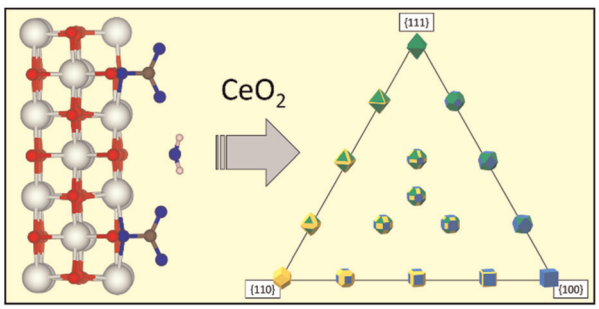
11223



Quantum-confined bismuth iodide perovskite nanocrystals in mesoporous matrices

Sarah Dupé, Dongyu Liu, Antik Ghosh, Andrey S. Vasenko, Stéphanie Pouget, Sandrine Schlutig, Mathieu Vidal, Bénédicte Lebeau, Wai Li Ling, Peter Reiss, Oleg V. Prezhdo, Andrey Ryzhikov and Dmitry Aldakov*

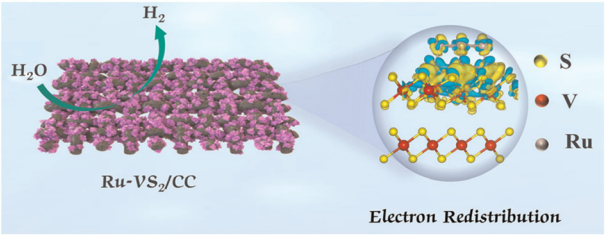
11232

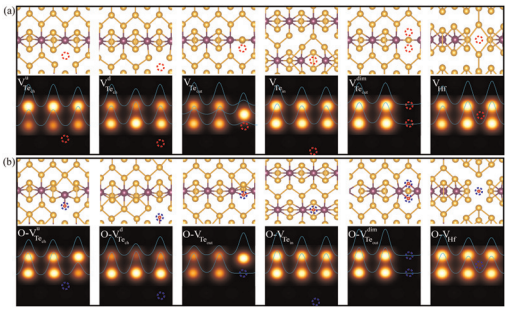


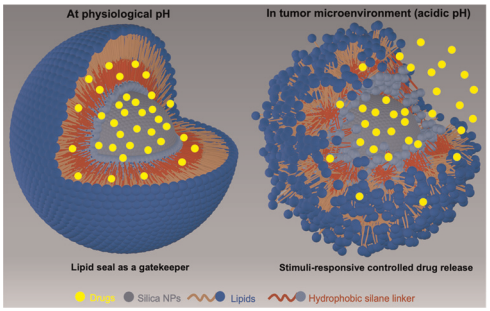
Composition-dependent morphologies of CeO_2 nanoparticles in the presence of Co-adsorbed H_2O and CO_2: a density functional theory study

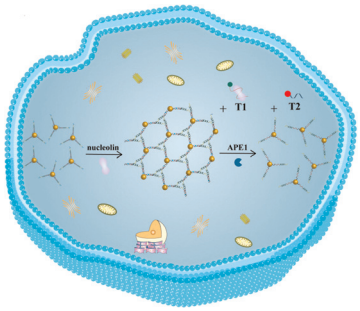
Samuel Moxon, Adam R. Symington, Joshua S. Tse, Joseph M. Flitcroft, Jonathan M. Skelton, Lisa J. Gillie, David J. Cooke, Stephen C. Parker and Marco Molinari*

PAPERS



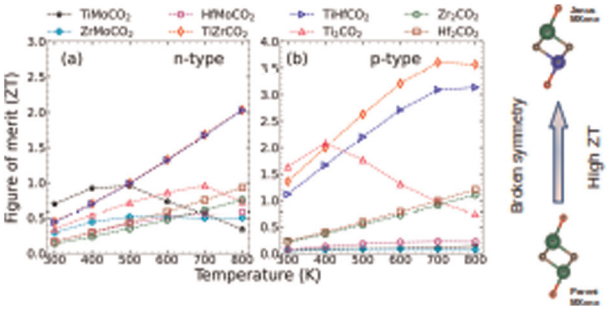






PAPERS

PAPERS



CORRECTION