

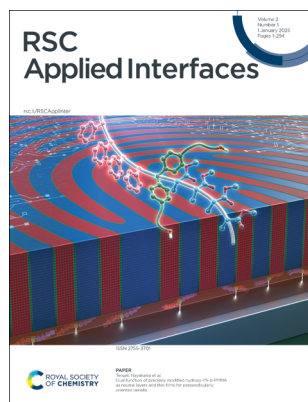
RSC Applied Interfaces

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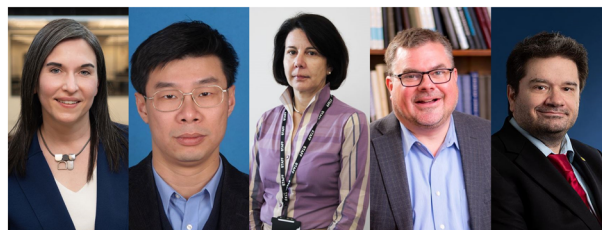
Cover
See Teruaki Hayakawa et al.,
pp. 74–81.
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The first year of *RSC Applied Interfaces*: a retrospective

Shelley A. Claridge, Jianbin Huang, Serena Margadonna, Ryan Richards and Federico Rosei*

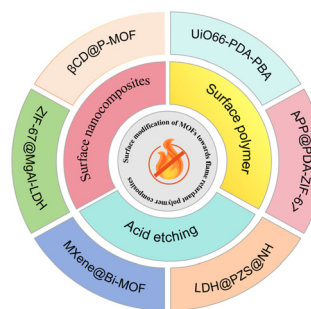


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Surface modification of MOFs towards flame retardant polymer composites

Xiuhong Sun, Ye-Tang Pan,* Wei Wang and Rongjie Yang





Environmental Science: Atmospheres

GOLD
OPEN
ACCESS

Connecting communities
and inspiring new ideas

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Fundamental questions
Elemental answers



Registered charity number: 207890

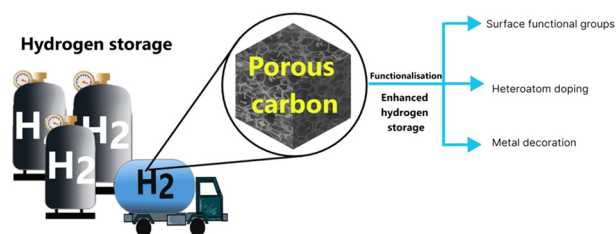


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Porous carbons: a class of nanomaterials for efficient adsorption-based hydrogen storage

Lila A. M. Mahmoud, Jemma L. Rowlandson, David J. Fermin, Valeska P. Ting* and Sanjit Nayak*

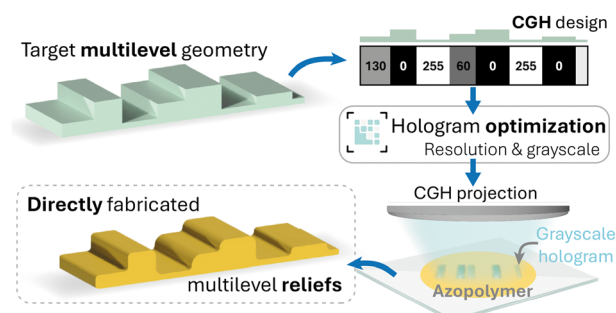


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Multilevel azopolymer patterning from digital holographic lithography

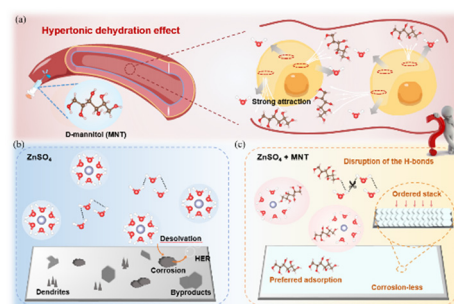
Marcella Salvatore, Francesco Reda, Fabio Borbone and Stefano Luigi Oscurato*



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A medicine-inspired hydroxyl-rich equimolar ZnSO₄/D-mannitol electrolyte enables horizontally stacked Zn deposition for long-cycling aqueous batteries

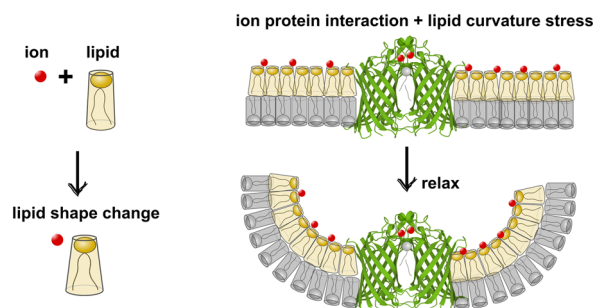
Jin Xiao, Chenbo Yuan, Cong Liu, Ximei Sun, Bing Cheng, Zitong Huang, Xiaowen Zhan* and Lingyun Zhu*



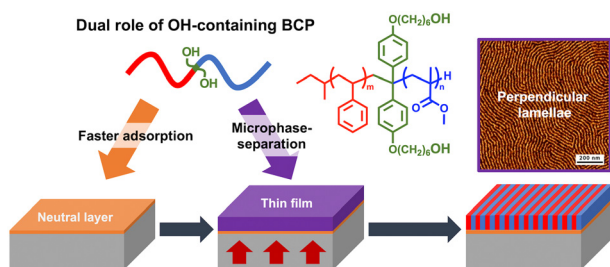
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Metal ion cofactors modulate integral enzyme activity by varying differential membrane curvature stress

Paulina Piller, Paul Reiterer, Enrico F. Semeraro and Georg Pabst*



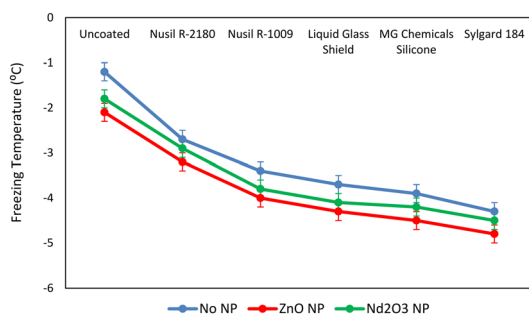
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Riku Mizusaki, Shinsuke Maekawa, Takehiro Seshimo, Takahiro Dazai, Kazufumi Sato, Kan Hatakeyama-Sato, Yuta Nabae and Teruaki Hayakawa*

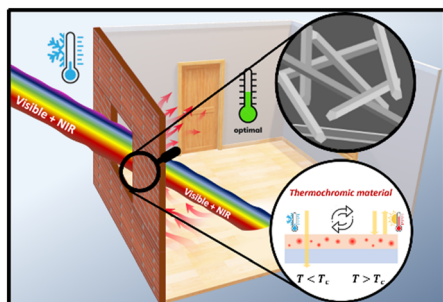
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Kate Yeadon, Edward P. C. Lai,* Xiao Huang and Naiheng Song

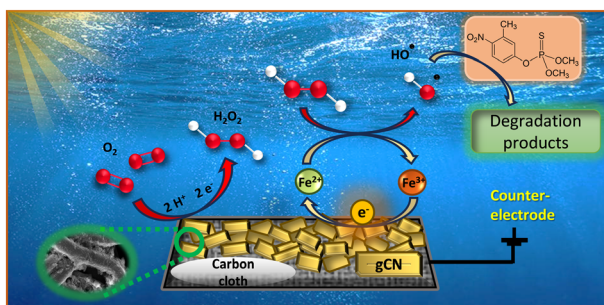
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Amaury Baret,* Ambreen Khan, Aline Rougier, Daniel Bellet and Ngoc Duy Nguyen

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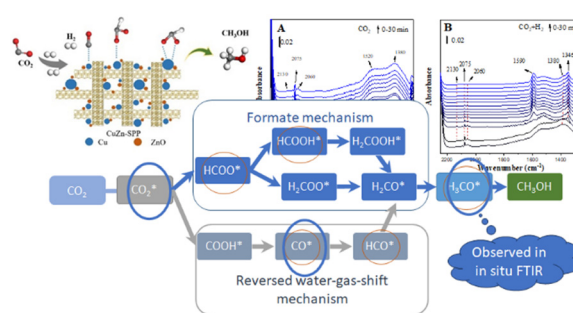
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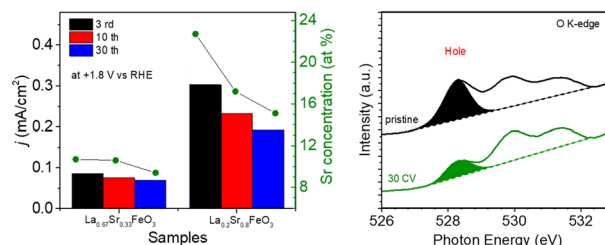
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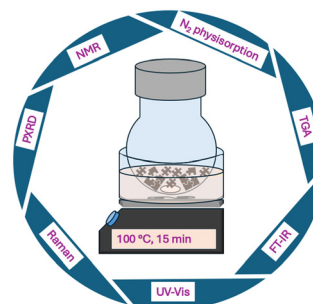
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Synthesis of a mixed-linker Ce-UiO-67 metal-organic framework

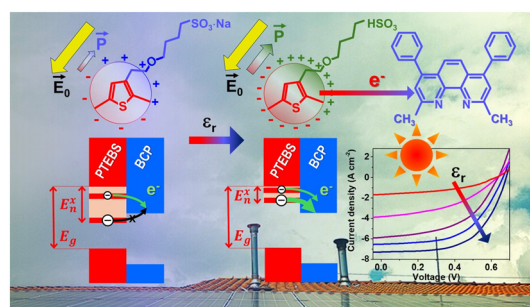
V. Finelli, G. Mastronardi, N. G. Porcaro, M. Signorile, F. Bonino, P. Á. Szilágyi and S. Bordiga*



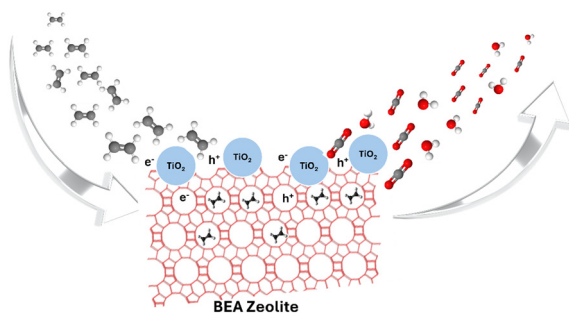
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Dielectric-constant effects on the exciton dissociation and photovoltaic conversion efficiency of water-soluble green conducting polymers

Xin Wei, Daniel Williams and Giovanni Fanchini*



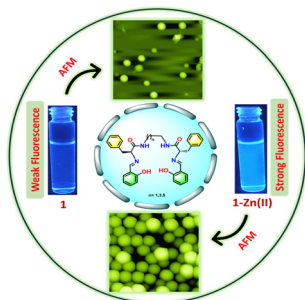
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On the characterization and performance of highly dispersed TiO₂ nanoparticles onto BEA zeolite in the continuous gas-phase photooxidation of ethylene

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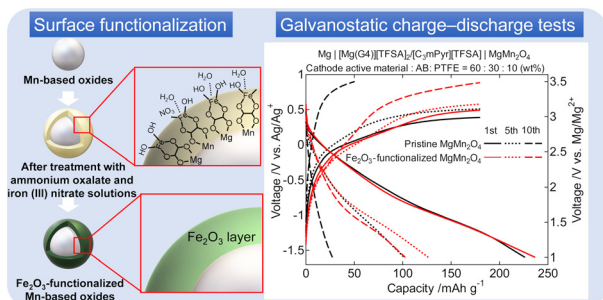
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Salicylaldimine-functionalized L-phenylalanine-based pseudopeptides: zinc-instructed conformational tuning of self-assembled nanostructures

Kamlesh Kumar Nigam, Surabhi Asthana and Mrituanjay D. Pandey*

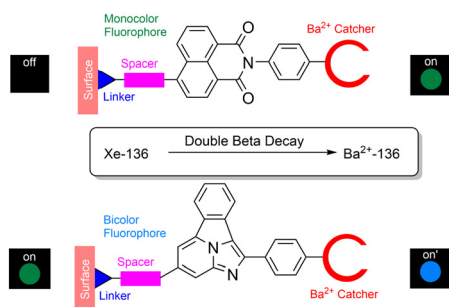
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Oxalate-assisted Fe₂O₃ surface functionalization of nanosized MgMn₂O₄ and α -MnO₂ cathodes for rechargeable magnesium batteries

Masanao Ishijima,* Arisa Omata, Kiyoshi Kanamura, Toshihiko Mandai, Xiatong Ye, Tetsu Ichitsubo and Koichi Kajihara*

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Supramolecular chemistry in solution and solid-gas interfaces: synthesis and photophysical properties of monocolour and bicolor fluorescent sensors for barium tagging in neutrinoless double beta decay

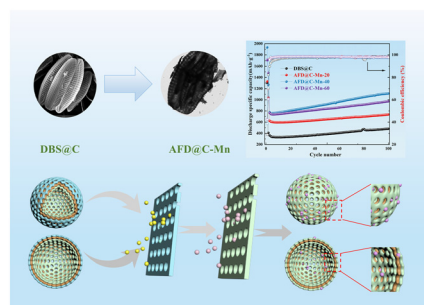
F. Auria-Luna, F. W. Foss Jr., J. Molina-Canteras, I. Velazco-Cabral, A. Marauri, A. Larumbe, B. Aparicio, J. L. Vázquez, N. Alberro, I. Arrastia, V. S. Nacianceno, A. Colom, C. Marcuello, B. J. P. Jones, D. Nygren, J. J. Gómez-Cadenas, C. Rogero, I. Rivilla,* F. P. Cossío* and the NEXT collaboration



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A diatom frustule-based $\text{Mn}_2\text{SiO}_4@\text{C}@\text{SiO}_2$ multilayer-structure composite as a high-performance anode electrode material for lithium-ion batteries

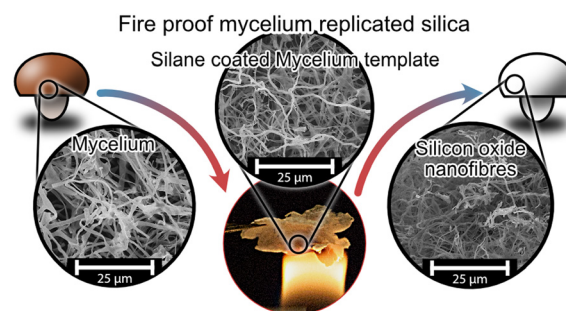
Shimao Sun, Hongchang Liu,* Yuxin Chen, Hongwei Liu, Rongda Yu, Xingfu Zheng, Yunchao Li, Jian Zhu, Jinlan Xia and Jun Wang



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Silicon oxide nanofibers using fungi mycelium as template material/from water purification to space insulation

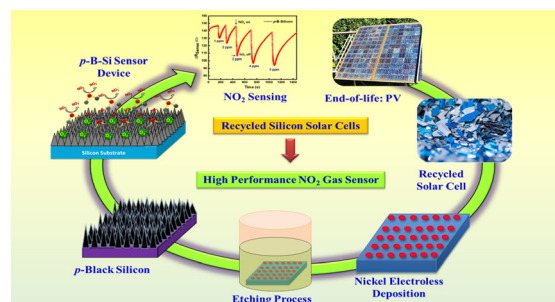
Björn K. Birdsong,* Antonio J. Capezza, Maryam Nejati, Anton Bjurström, Yuanyuan Li, Amparo Jiménez-Quero* and Richard T. Olsson*



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Recycled silicon solar cell-derived nanostructured p-black silicon device for high performance NO_2 gas sensor applications

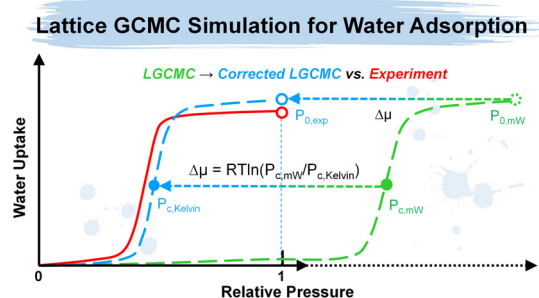
Mahaboobbatcha Aleem, Ramakrishnan Vishnuraj and Biji Pullithadathil*



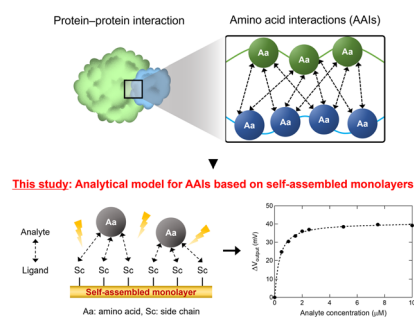
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High-efficiency prediction of water adsorption performance of porous adsorbents by lattice grand canonical Monte Carlo molecular simulation

Zhilu Liu, Wei Li and Song Li*



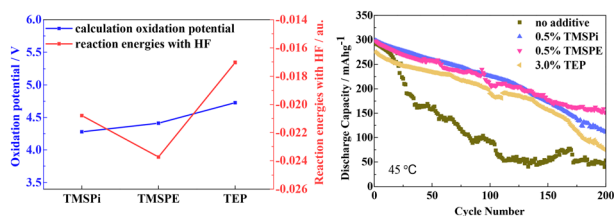
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Analysis of interactions between amino acids and monolayers of charged side chains

Akira Nomoto, Kentaro Shiraki and Tsukuru Minamiki*

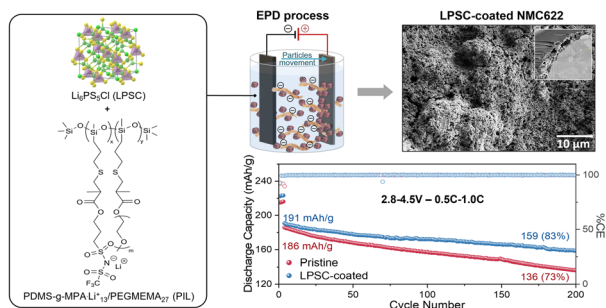
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A phosphite derivative with stronger HF elimination ability as an additive for Li-rich based lithium-ion batteries at elevated temperatures

Xiangzhen Zheng, Tao Huang, Ying Pan, Yongwei Chen, Mingdeng Wei* and Maoxiang Wu*

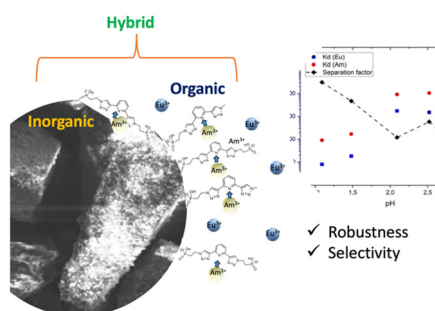
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Inbar Anconina and Diana Golodnitsky*

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O.-M. Hiltunen, T. Suominen, J. Aho, M. Otaki, A. Zupanc, S. Hietala, G. Silvennoinen and R. Koivula

