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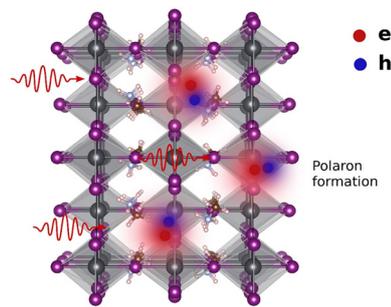
See Magali Gary-Bobo, José A. Pomposo, Fabienne Dumoulin *et al.*, pp. 148–156. Image reproduced by permission of Davide Arena from *Mater. Adv.*, 2025, 6, 148.

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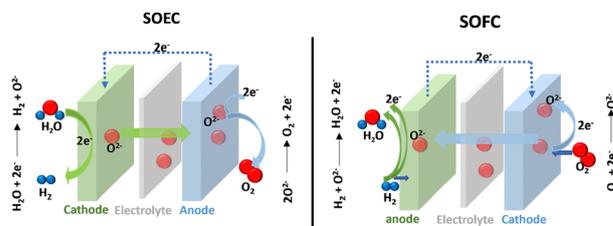
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Fundamental questions
Elemental answers

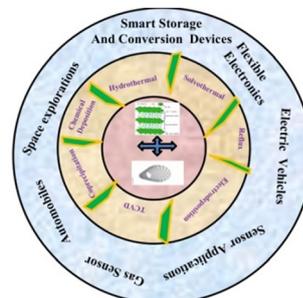


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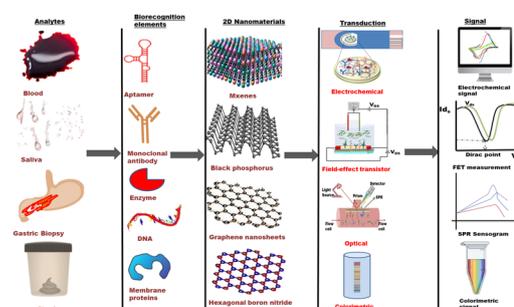
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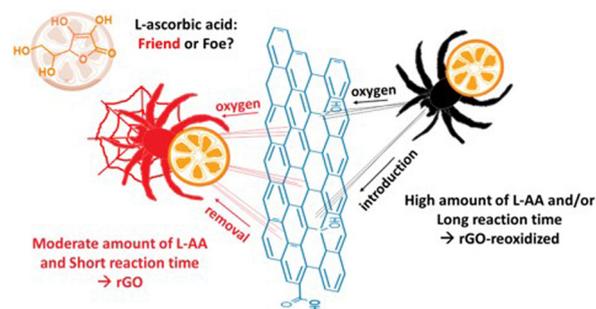


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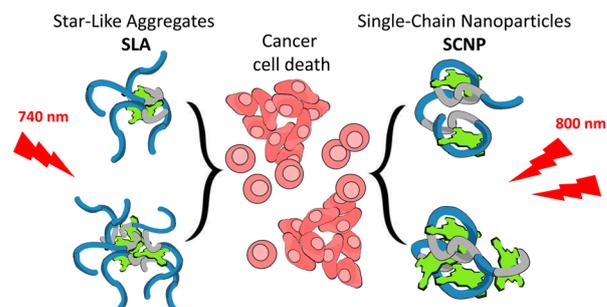


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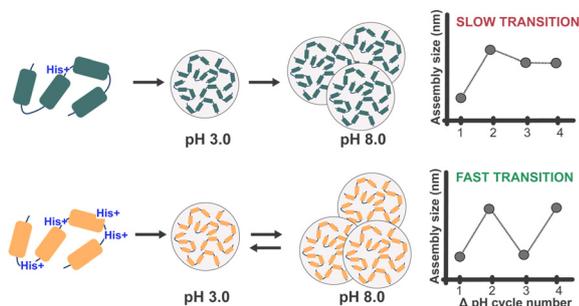
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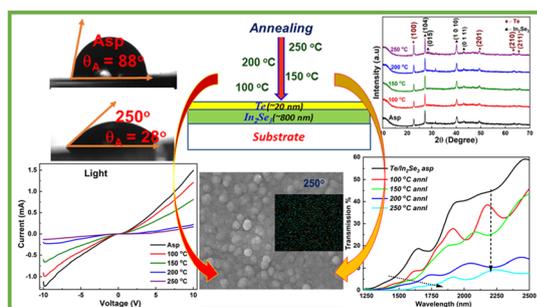
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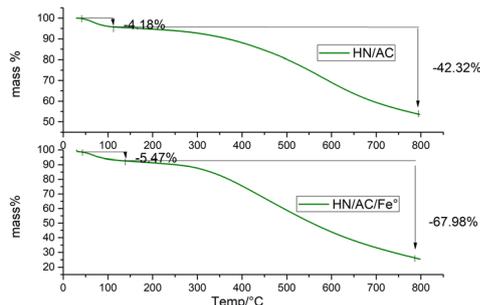
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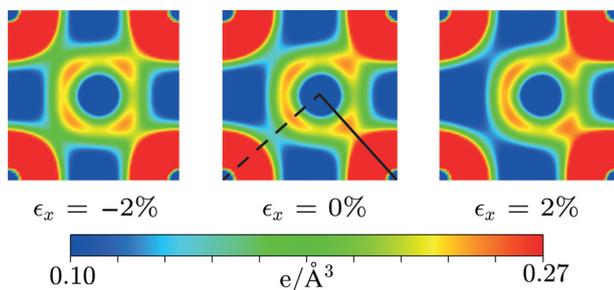
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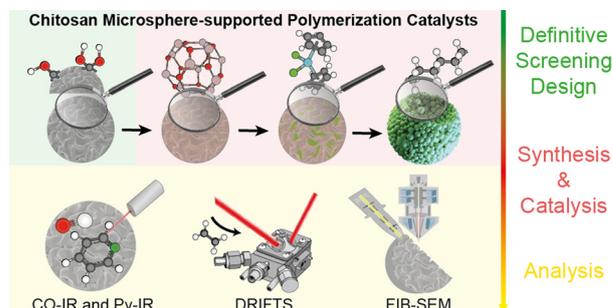
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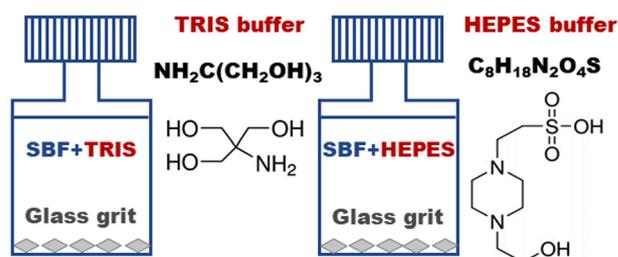
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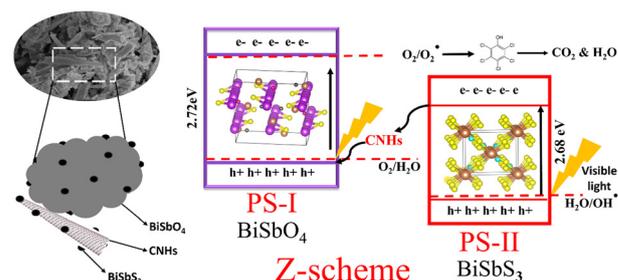
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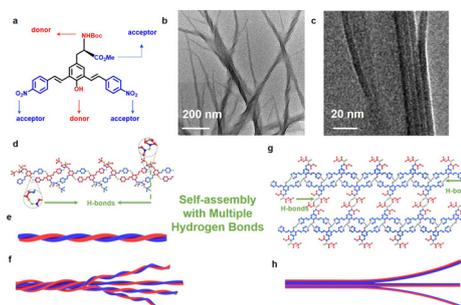
Maria Batool and Muhammad Nadeem Zafar*



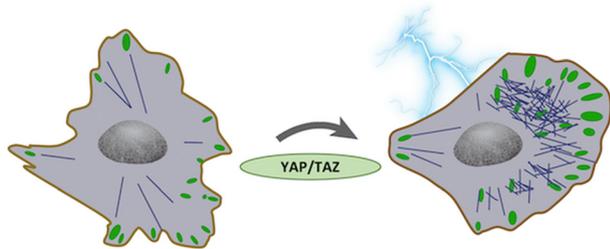
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Yu Wang, Guoxin Yin, Pradeep Cheraku, Yu Xia, Yuping Yuan, Peng Miao, Huidong Zang, Mircea Cotlet,* Ping Xu* and Hsing-Lin Wang*



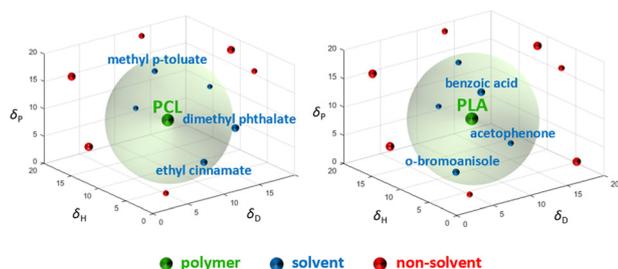
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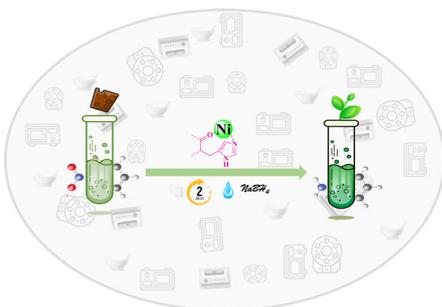
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Patrik Boura, Lenka Krajkova, Adam Bouz, Silvestr Figalla, Alexandr Zubov, Bart Van der Bruggen and Juraj Kosek*

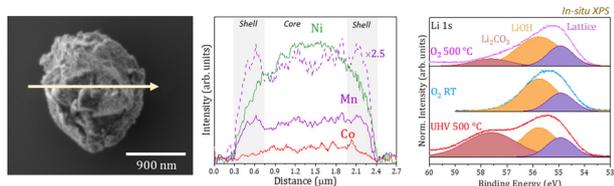
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Fatemeh Eshrati, Hossein Ghafuri,* Peyman Hanifehnejad and Haniyeh Dogari

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Synthesis and characterization of core-shell NMC microparticles as cathode materials for Li-ion batteries: insights from *ex situ* and *in situ* microscopy and spectroscopy techniques

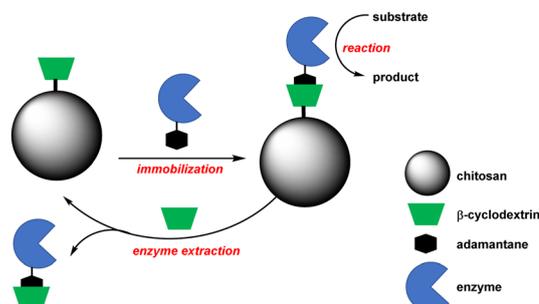
J. García-Alonso, S. Krüger, K. Kelm, E. Guney, N. Yuca, I. J. Villar-García, B. Saruhan, V. Pérez-Dieste, D. Maestre* and B. Méndez



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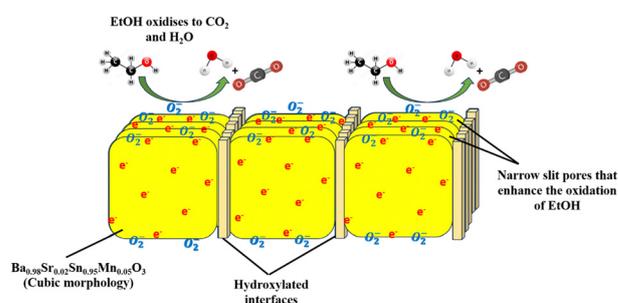
Agatha Bastida,* Leoncio Garrido and Alfonso Fernández-Mayoralas*



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Nanocrystalline and mesoporous $(\text{Ba,Sr})(\text{Sn,Mn})\text{O}_3$ perovskite solid solution: a potential n-type semiconductor for room temperature ethanol sensing applications

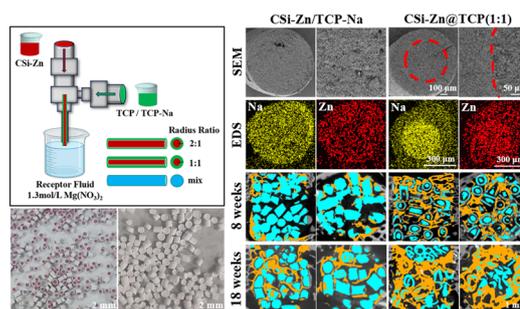
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Doping functional ions in phase-stabilizing core-shell biphasic granules readily tunes bone regeneration *in situ*

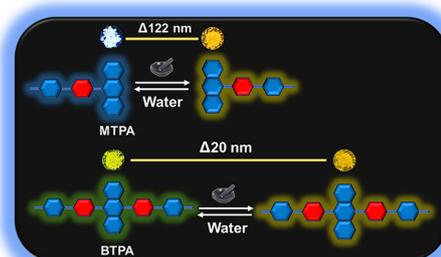
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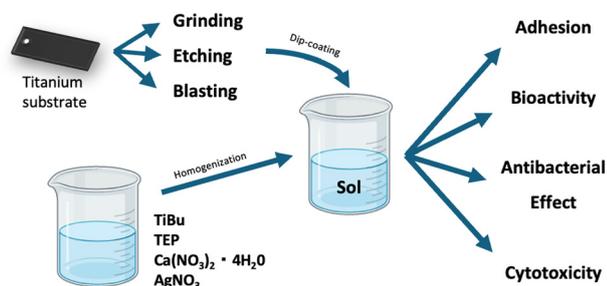
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D-A-D type high contrast mechanochromic luminescence based on anthracene and pyridinium salt derivatives

Xianchen Hu, Zhengfen Liu, Shubiao Xiao* and Junli Yang*



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Development of titania coatings containing calcium, phosphorus, and silver, applied *via* the sol-gel method and dip-coating technique

Karolína Opavová,* Diana Horkavcová, Eva Jablonská, Lucie Mrázková and Anna Bašusová

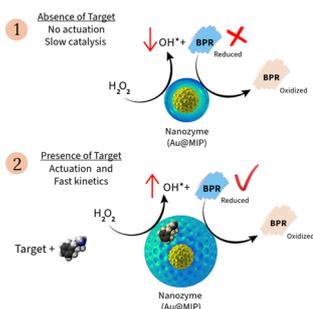
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Self-assembling PEGylated mannolipids for liposomal drug encapsulation of natural products

Leila Mousavifar, Mukul R. Gupta, Madleen Rivat, Aly El Riz, Abdelkrim Azzouz, Jordan D. Lewicky, Alexandrine L. Martel, Hoang-Thanh Le and René Roy*

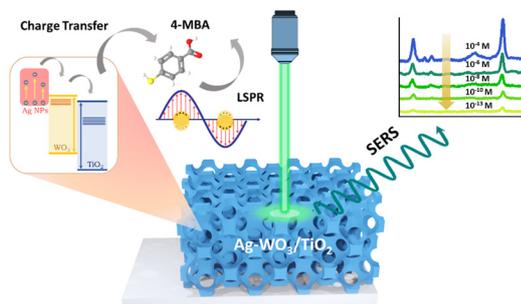
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Generic strategy for the synthesis of highly specific Au/MIP nanozymes and their application in homogeneous assays

Shaema Hadi Abdulsada, Alvaro Garcia Cruz,* Christopher Zaleski, Elena Piletska, Damla Ulker, Stanislav Piletsky and Sergey A. Piletsky

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Interplay of plasmonic and charge transfer effects for ultrasensitive Ag-WO₃/TiO₂ photonic crystal SERS sensors

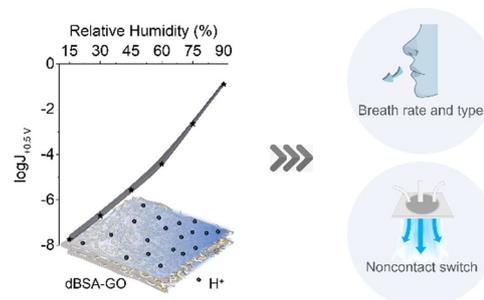
Maria-Athina Apostolaki, Elias Sakellis, Spiros Gardelis and Vlassis Likodimos*



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Denatured bovine serum albumin particle decorated graphene oxide nanocomposite for ultrasensitive resistive humidity sensing

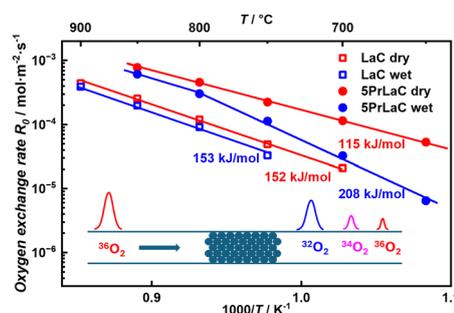
Pan Qi, Yongkang Zhang, Ziang Zhang, Xiaobing Li and Cunlan Guo*



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Unravelling the oxygen exchange mechanism on $\text{La}_2\text{Ce}_2\text{O}_7$

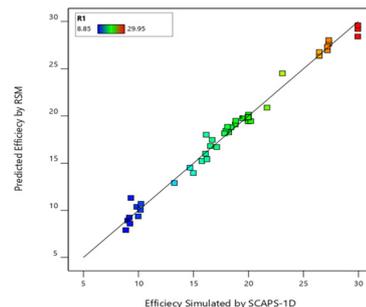
Yizhou Shen, Vincent Thor eton and Reidar Haugrud*



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Unlocking the full potential of solar cell materials: parameter sensitivity analysis and optimization using response surface modelling

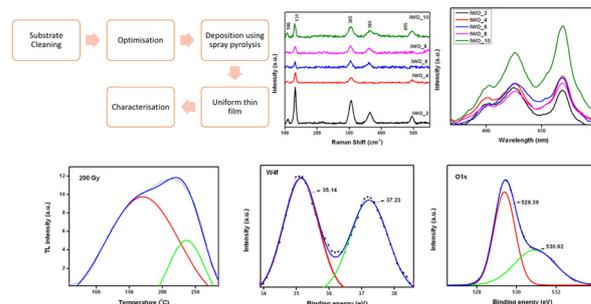
Manoj Kumar*, Sanju Rani, Xu Wang* and Vidya Nand Singh*



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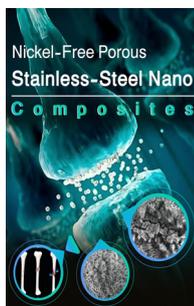
Tuning of the structural and electrical properties of thermo-luminescent tungsten-doped indium oxide thin film

Aparna C., Pramoda Kumara Shetty* and Mahesha M. G.



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**Nickel-free porous stainless-steel nanocomposites for versatile biomedical applications: fabrication, characterization, and evaluation of electrochemical and immunogenicity detection**

Sabreen Abdallah Abdelwahab, Mohamad Warda, Mamdouh Zewaid, Hisham Saleh, Omar A. Ahmed-Farid, Hassan A. M. Hendawy, Elbadawy A. Kamoun,* Amr Negm, Jong Yeog Son* and Ahmed I. Ali*

CORRECTION

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Correction: Arylselanyl motifs in hierarchically structured mesoporous phenolic polymers: efficient adsorption sites for Hg²⁺ ions

Vishnu Selladurai and Selvakumar Karuthapandi*

