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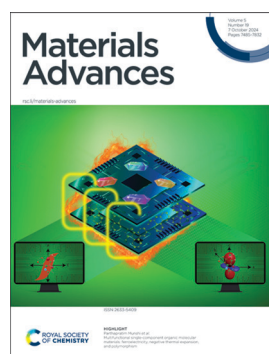
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Inside cover

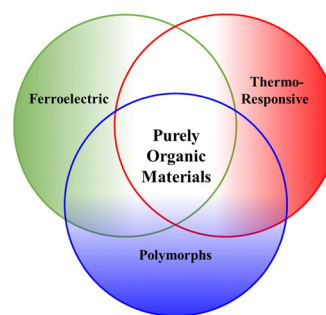
See Parthapratim Munshi *et al.*, pp. 7495–7515. Image reproduced by permission of Parthapratim Munshi from *Mater. Adv.*, 2024, 5, 7495.

HIGHLIGHT

7495

Multifunctional single-component organic molecular materials: ferroelectricity, negative thermal expansion, and polymorphism

Sanjay Dutta, Lalita Negi and Parthapratim Munshi*

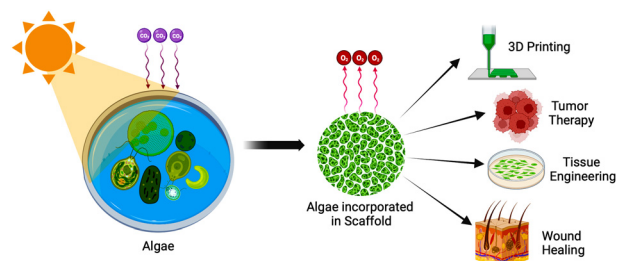


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Roadmap of algal autotrophic tissue engineering in the avenue of regenerative wound therapy

Nikhita Pandian, Radhika Chaurasia, Satyaki Chatterjee, Bhaskar Biswas, Prabir Patra, Archana Tiwari* and Monalisa Mukherjee*



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Eco-friendly, sustainable, and safe energy storage: a nature-inspired materials paradigm shift

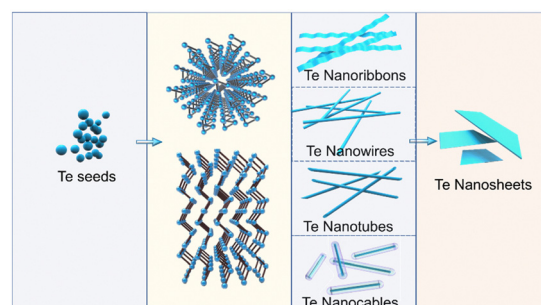
Thiago Bertaglia, Carlos M. Costa, Senentxu Lanceros-Méndez* and Frank N. Crespilho*



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Morphology-controlled synthesis, growth mechanism, and applications of tellurium nanostructures

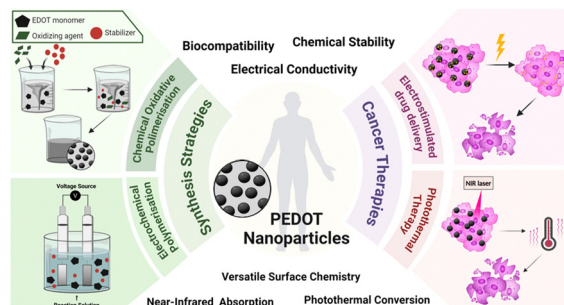
Jinshu Li, Qingshan Yang, Dawei He, Yongsheng Wang, Euyheon Hwang and Yajie Yang*



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Synthesis strategies and cancer therapy applications of PEDOT nanoparticles

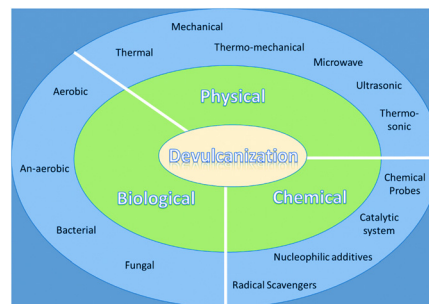
Diogo Dias, Leonor Resina, Frederico Castelo Ferreira, Paola Sanjuan-Alberte* and Teresa Esteves*



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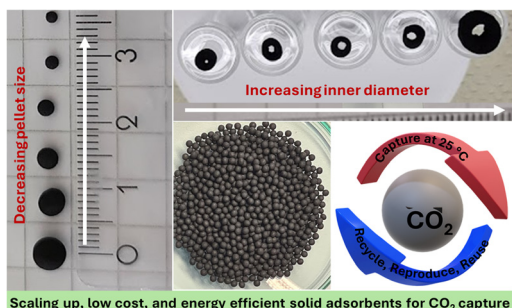
Advances in recycling of waste vulcanized rubber products via different sustainable approaches

Amit Kumar, Ritesh J. Dhanorkar, Subhra Mohanty and Virendra Kumar Gupta*



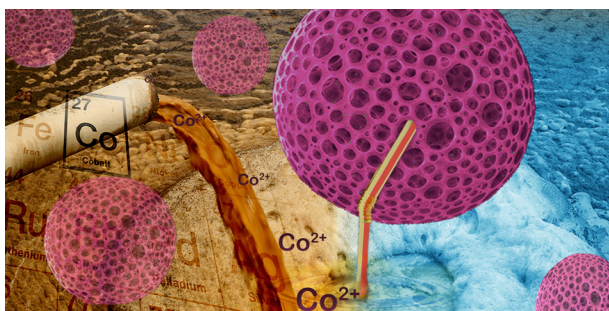
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Scaling up, low cost, and energy efficient solid adsorbents for CO₂ capture**Porous carbon pellets for physical adsorption of CO₂: size and shape effect**

Baljeet Singh,* Marianna Kemell and Timo Repo*

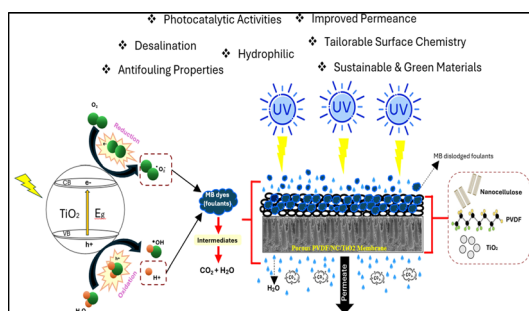
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Mao-Hsuan Peng and Chia-Chen Li*

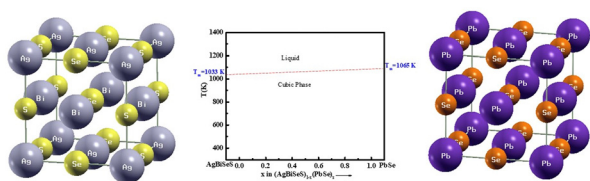
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**A TiO₂ grafted bamboo derivative nanocellulose polyvinylidene fluoride (PVDF) nanocomposite membrane for wastewater treatment by a photocatalytic process**

Md Rezaur Rahman,* Anthonette James, Khairul Anwar Mohamed Said, Murtala Namakka, Mayeen Uddin Khandaker, Woo Haw Jiunn, Jehan Y. Al-Humaidi, Raed H. Althomali and Mohammed Muzibur Rahman

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Highly Symmetrical stabilized cubic structure in the operating temperature regime (300-800) K

Entropy engineering in I–V–VI₂ family: a paradigm to bestow enhanced average ZT in the entire operating temperature regime

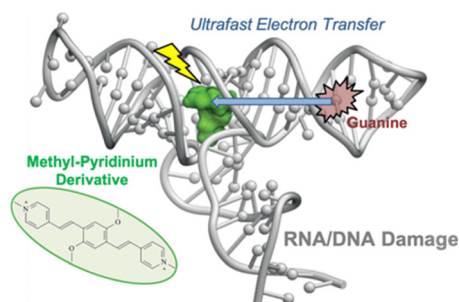
Ranita Basu,* U. Sandhya Shenoy, Ankita Pathak, Shweta Singh, P. Jha, D. Krishna Bhat, Hirakendu Basu and Ajay Singh



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Direct observation of guanine photo-oxidation from new potential anticancer drugs *via* ultrafast electron transfer

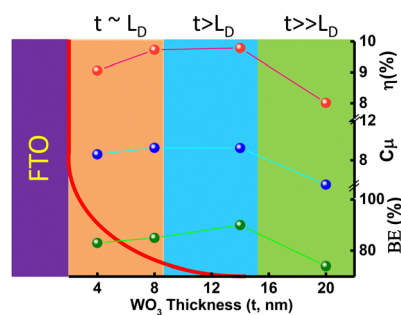
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Enhanced efficiency of dye-sensitized solar cells *via* controlled thickness of the WO₃ Langmuir–Blodgett blocking layer in the Debye length regime

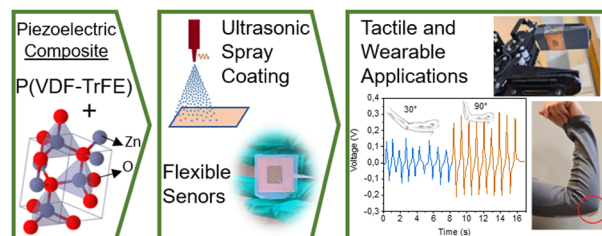
Neeraj Kumar, Sipra Choudhury, Aman Mahajan and Vibha Saxena*



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Toward high quality tactile sensors using ZnO/P(VDF-TrFE) flexible piezoelectric composite films

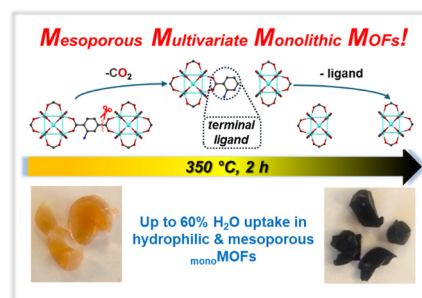
Sepide Taleb,* Wiebren M. van Lingen and Mónica Acuautila



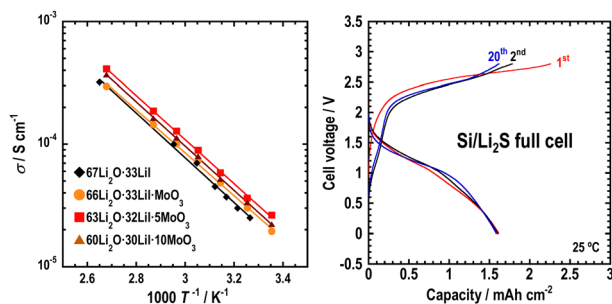
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Water sorption studies with mesoporous multivariate monoliths based on UiO-66

Linia Gedi Marazani, Victoria Gascon-Perez, Ayush Pathak, Michele Tricarico, Jin-Chong Tan, Michael J. Zaworotko, Andrew E. H. Wheatley, Banothile C. E. Makhubela and Gift Mehlana*



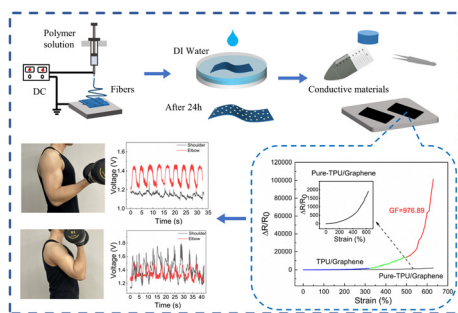
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Amorphous $\text{Li}_2\text{O-LiI-MoO}_3$ solid electrolytes: mechanochemical synthesis and application to all-solid-state batteries

Yushi Fujita, Tomoya Otono, Taichi Asakura, Jiong Ding, Hirofumi Tsukasaki, Shigeo Mori, Kota Motohashi, Atsushi Sakuda* and Akitoshi Hayashi

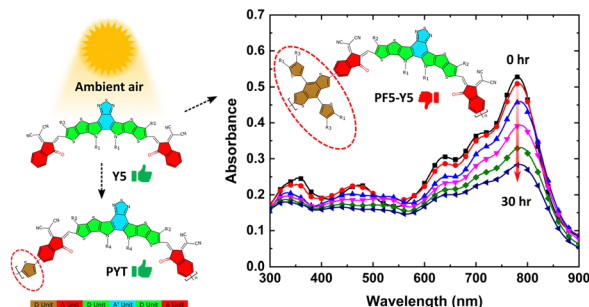
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Highly tensile and sensitive strain sensors with micro-nano topology optimization

Weixia Lan, Qiqi Ding, Tao Zhou, Zilong Guo, Wenbin Sun, Zhenghui Wu,* Yingjie Liao,* Bin Wei and Yuanyuan Liu*

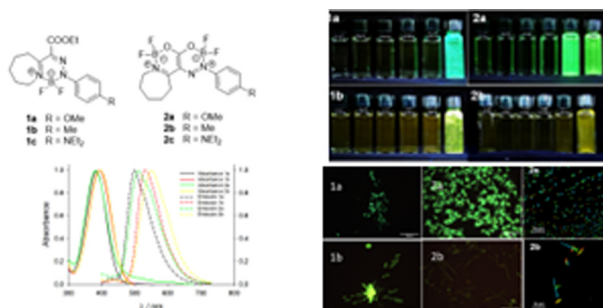
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Effect of molecular structure on the photochemical stability of acceptor and donor polymers used in organic solar cells

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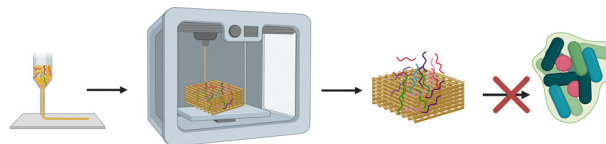
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3D printable gelatin/nisin biomaterial inks for antimicrobial tissue engineering applications

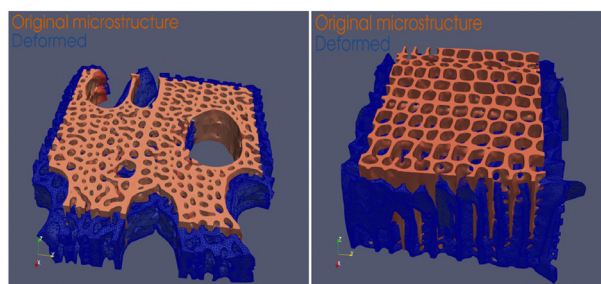
Mateo Dallos Ortega, Jenny Aveyard, Alexander Ciupa, Robert J. Poole, David Whetnall, Julia G. Behnsen and Raechelle A. D'Sa*



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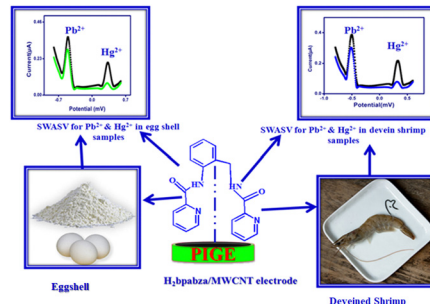
Tarik Chakkour* and Patrick Perré



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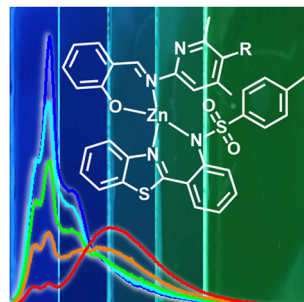
Kumar Sangeetha Selvan,* Jayagopi Gayathri* and Sivakumar Sivalingam



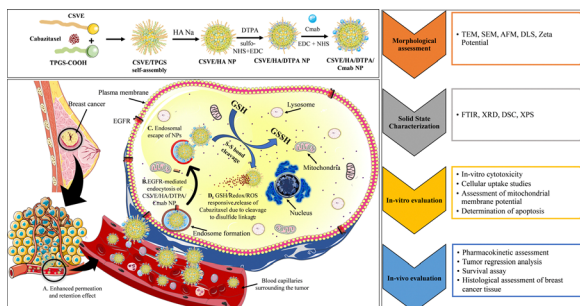
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Zinc(II)-heteroligand compounds for wet processing OLEDs: a study on balancing charge carrier transport and energy transfer

Emmanuel Santos Moraes, Luís Gustavo Teixeira Alves Duarte, Fabiano Severo Rodembusch, José Carlos Germino,* Luiz Fernando Ribeiro Pereira* and Teresa Dib Zambon Atvars*



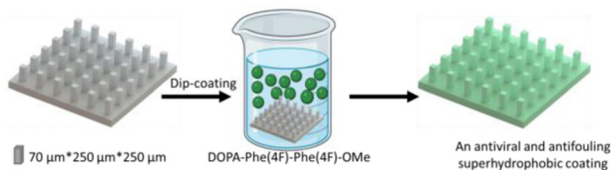
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Cabazitaxel-loaded redox-responsive nanocarrier based on D-alpha-tocopheryl-chitosan and hyaluronic acid for improved anti-tumor efficacy in DMBA-induced breast cancer model

Abhishek Jha, Manish Kumar, Pooja Goswami, Kanchan Bharti, Manjit Manjit, Ashutosh Gupta, Sudheer Moorkoth, Biplob Koch* and Brahmeshwar Mishra*

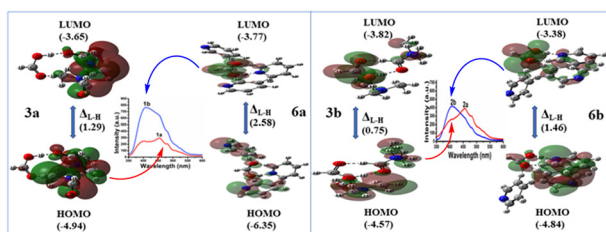
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An antifouling and antiviral superhydrophobic elastomer formed by 3D printing and a peptide-based coating

Tan Hu, Noa Trink, Shlomo Magdassi* and Meital Rechtes*

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Raju Ram Puniya, Priyanka Takhar, Monika Chhapoliya, Rinki Deka, Dhruva Jyoti Kalita and Devendra Singh*

