

Materials Advances

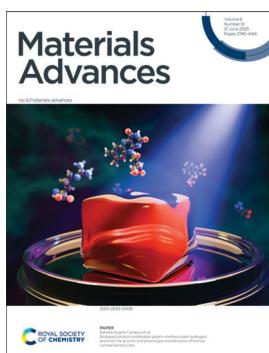
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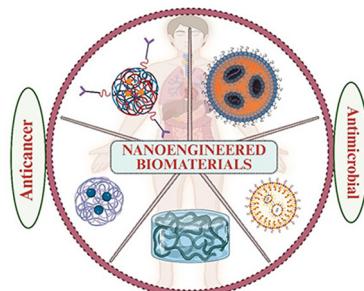
See Daniela Duarte Campos et al., pp. 3805–3816.
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EDITORIAL

3756

Nanoengineered biomaterials for anticancer and antimicrobial drug targeting

Sabya Sachi Das, Janne Ruokolainen and Kavindra Kumar Kesari*

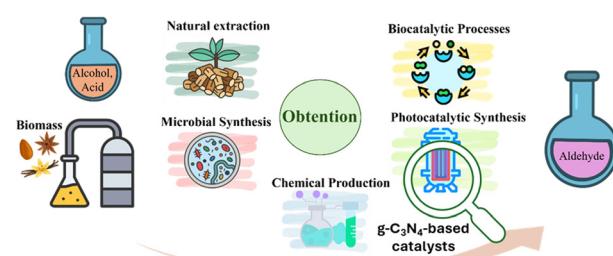


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Selective production of aldehydes: from traditional alternatives to alcohol photo-oxidation using g-C₃N₄-based materials

M. A. Quintana, D. Rodriguez-Padrón, P. Jiménez-Calvo, M. Calero, R. R. Solís* and M. J. Muñoz-Batista*



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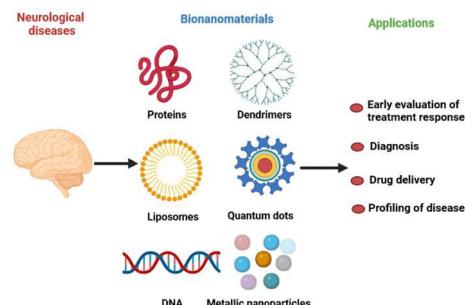
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REVIEWS

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Applications of bionanomaterials in neurodegenerative diseases

Abhijit Biswas,* Pravin Hivare, Raghu Solanki, Sharad Gupta and Dhiraj Bhatia*

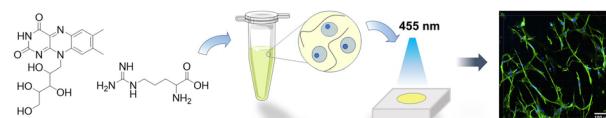


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Biobased photocrosslinkable gelatin-methacrylate hydrogels promote the growth and phenotype maintenance of human corneal keratocytes

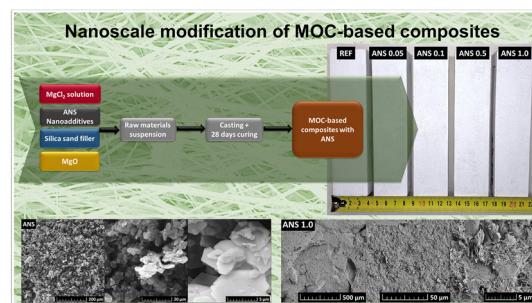
Friederike Dehli, Olivia Schless, Meret Kaliske, Isabel Potthof, Alexandre Taoum, Matthias Fuest and Daniela Duarte Campos*



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Nanoscale modification of MOC-based composites: the influence of alumina nanosheets on the microstructure and material properties

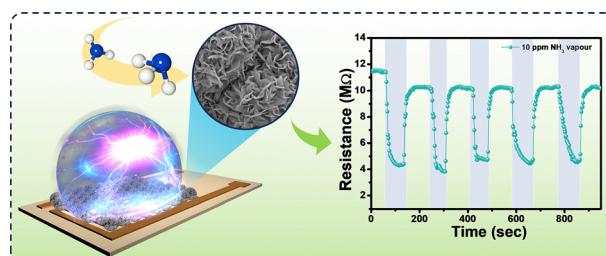
Anna-Marie Lauermannová,* Adéla Jiříčková, Martina Záleská, Milena Pavlíková, Adam Pivák, Ondřej Jankovský and Zbyšek Pavlík



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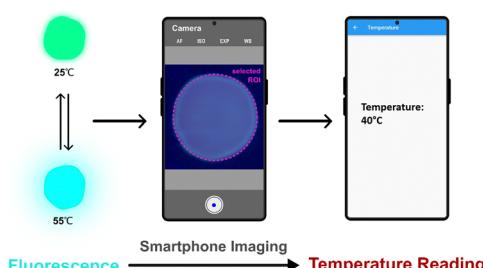
Highly selective ammonia sensing at room temperature using DC plasma-modified MoS₂ nanoflowers

Anurag Kashyap, Bipradip Chakraborty, Tonmoi Hazarika, Sanjeeb Chouhan, Bharat Kakati and Hemen Kalita*



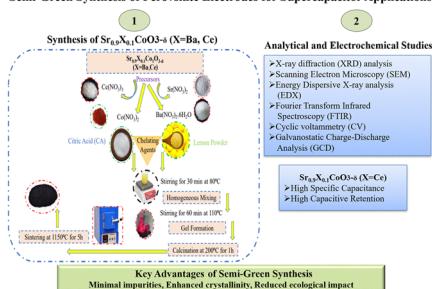
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Polygalacturonic Acid-Based Thermal Sensor**Temperature-responsive fluorescent polygalacturonic acid: a step towards wound monitoring with smartphone imaging**

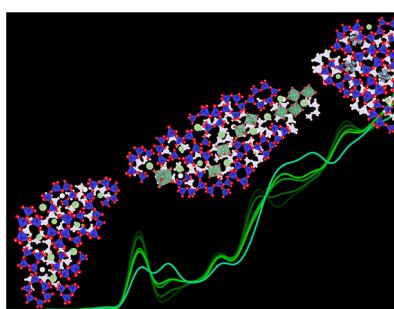
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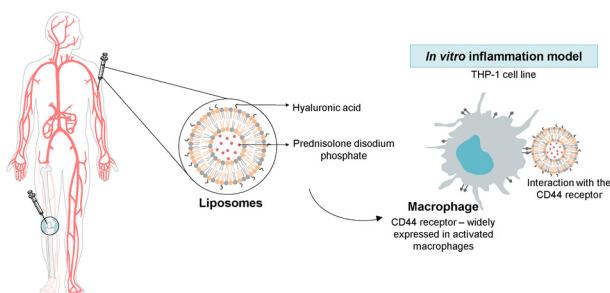
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**Unraveling the structural complexity of niobate units in aluminosilicate glasses and glass-ceramics**

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**Assessment of hyaluronic acid-conjugated pH-sensitive liposomes for prednisolone delivery to activated macrophages**

Andreia Marinho, Salette Reis and Cláudia Nunes*

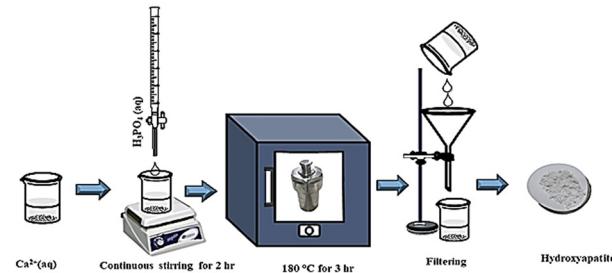


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Crystalline structure modification of hydroxyapatite via a hydrothermal method using different modifiers

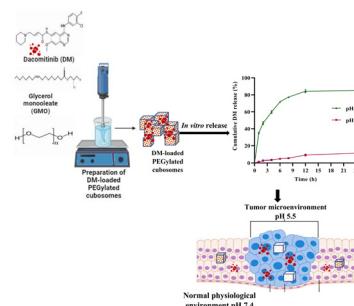
Md. Kawsar, Md. Sahadat Hossain,* Newaz Mohammed Bahadur, Dipa Islam and Samina Ahmed*



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Optimized PEGylated cubosomes: a novel approach for specific delivery of dacomitinib to non-small cell lung cancer cells

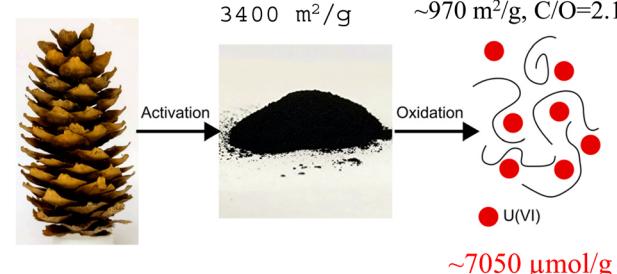
Mohamed Nasr,* Rania Mokhtar and Rania S. Abdel-rashid



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Extraordinary U(VI) sorption capacity of high surface area super-oxidized carbons

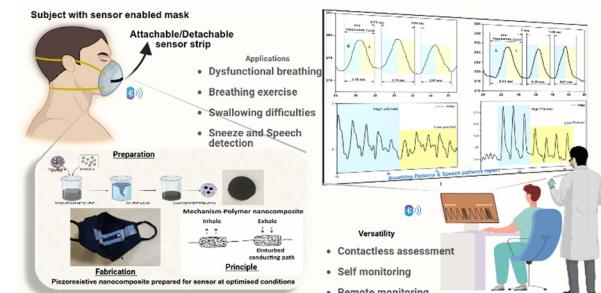
Tamuna Bakhiia, Bartosz Gurzeda, Gui Li, Nicolas Boulanger, Konstantin Maslakov, Anna Krot, Alexander Trigub, Anna Yu. Romanchuk,* Stepan N. Kalmykov and Alexandr V. Talyzin*



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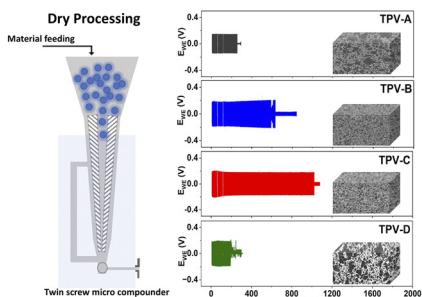
Development of a face mask attachable wireless piezoresistive nanocomposite sensor for monitoring respiratory health

D. B. Niranjan, Mathew Peter, Jeevan Medikonda and Pramod Kesavan Namboothiri*



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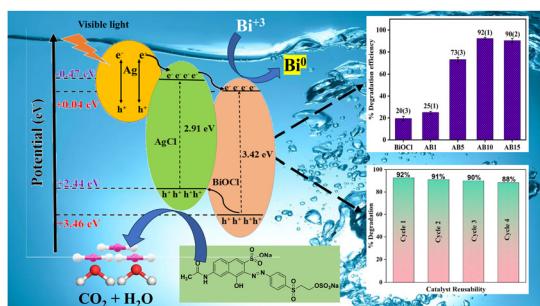
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Optimizing the dry processing parameters of thermoplastic vulcanizate electrolytes for improved microstructure and its impact on electrochemical stability

Mona Azimi, Gabrielle Foran, Cédric Barcha, Caroline St-Antoine, Arnaud Prébé and Mickael Dollé*

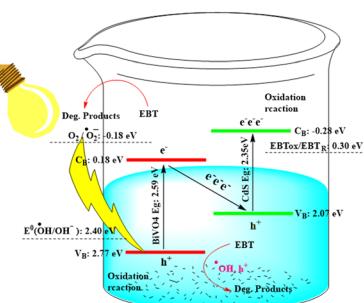
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Superior photocatalytic degradation of Reactive Orange 16 by Ag–AgCl/BiOCl nanocomposites under visible light

Kamya Jasuja and Raj Kumar Das*

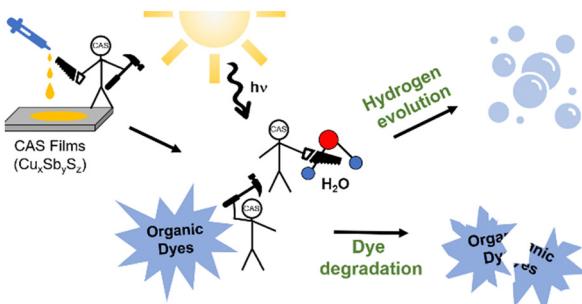
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A photodegradation study of the deposition fabricated $\text{CdS}-\text{BiVO}_4$ binary catalyst: a brief comparison with other fabrication procedures

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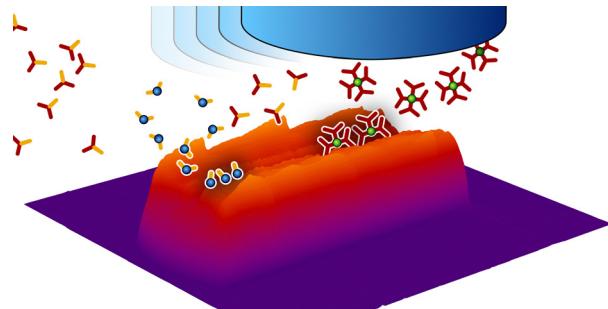


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Direct-patterning SnO₂ deposition by atomic-layer additive manufacturing

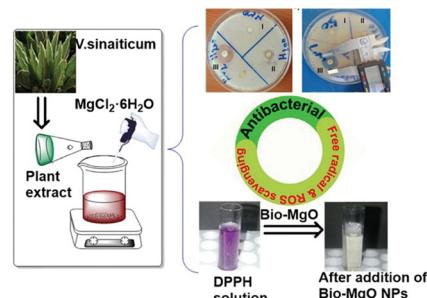
Sonja Kürten, Kimia Hashemizadeh, Mingjian Wu, Johannes Will, Ivan Kundrata, Erdmann Spiecker and Julien Bachmann*



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Biogenic synthesis and characterization of MgO nanoparticles using *Verbascum sinaiticum*: antibacterial, free radical, and reactive oxygen species scavenging activities

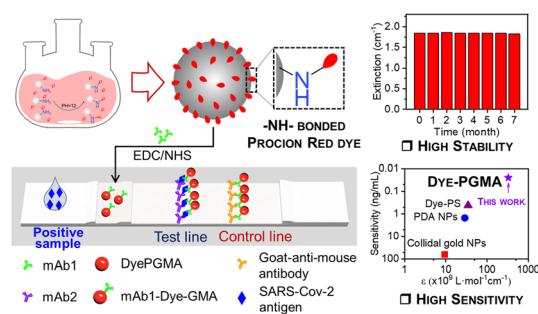
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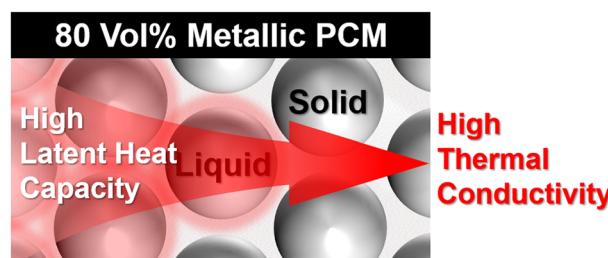
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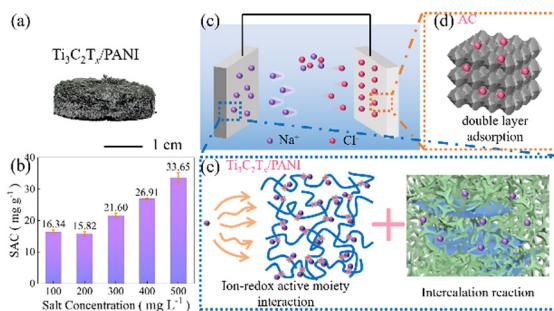
Gallium-in-glycerol phase change material emulsions (PCMEs) with superior latent heat capacity and thermal conductivity

Chae Young Park, Suji Kim, Chimin Song, Jieun Kim and Joohyung Lee*



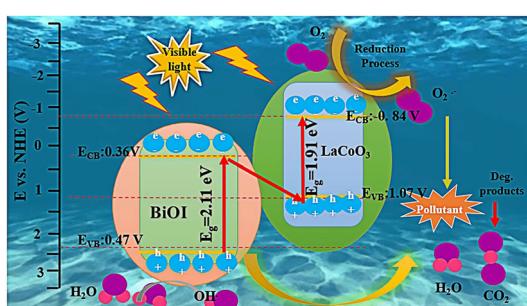
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**In situ polymerized porous $\text{Ti}_3\text{C}_2\text{T}_x/\text{PANI}$ as an electrode material for enhanced desalination performance in asymmetric capacitive deionization**

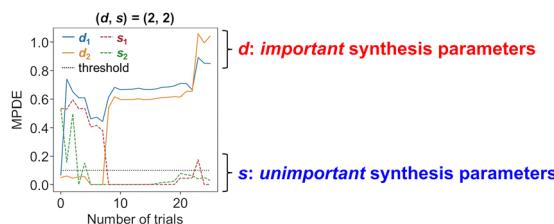
Xiaoyan Yang,* Xiaoke Lv, Tao Wen, Zhen Wang, Yubin Zhou, Tianmeng Zhang and Jianfeng Zhang*

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Razieh Ahesteh, Alireza Nezamzadeh-Ejhieh* and Seyed Nezamoddin Mirsattari

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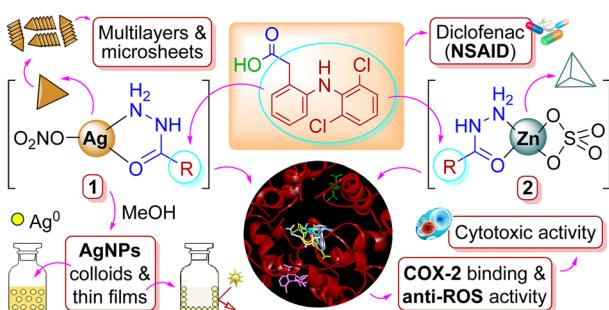
A sparse modeling-based Bayesian optimization using the maximum partial dependence effect (MPDE)

Designed for materials scientists, offering intuitive ease of use

Sparse modeling based Bayesian optimization for experimental design

Ryuji Masui,* Unseo Lee, Ryo Nakayama* and Taro Hitosugi

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**A multilayered supramolecular chelate of diclofenac-appended Ag^+ -hydrazide as an efficient anti-inflammatory, anticancer, and nanometal dispersing material, in comparison to analogous Zn^{II} -hydrazide**

Qurrat-ul-Ain,* Sammer Yousuf, Summaiyyah Bibi, Irum Hamid, Shazia Shah and Sumaira Khurshid

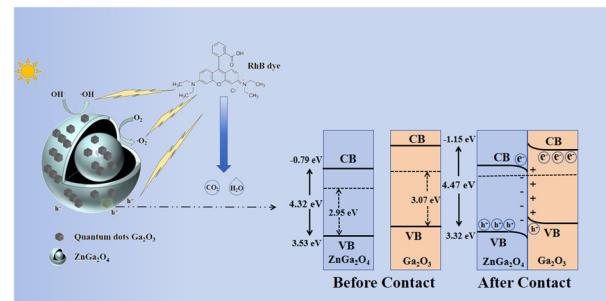


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High photocatalytic performance of $\text{ZnGa}_2\text{O}_4/\text{Ga}_2\text{O}_3$ double-shell hollow sphere structures prepared via a one-step hydrothermal method

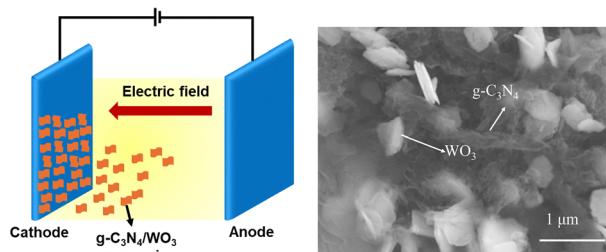
Zeyu Yang, Jizhou Yang and Haibo Fan*



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Unlocking photoanode performance through a roadmap for electrophoretic deposition of carbon nitride/tungsten oxide heterojunction thin films

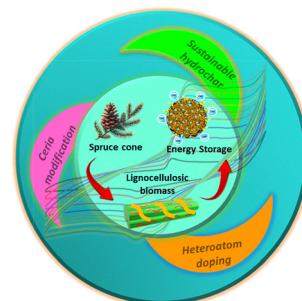
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Ionic liquid-assisted hydrothermal valorization and redox site engineering of spruce cone biowaste for high-performance heteroatom-doped and ceria-modified electrodes for sustainable supercapacitor applications

Khadija Chaudhary, Adeen Ilyas, Tomáš Zelenka, Hidetsugu Shiozawa, Muhammad Farooq Warsi, Eric W. Cochran* and Sonia Zulfiqar*



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Exploring the dynamic behaviour and optical properties of indolocarbazole charge-transfer cocrystals

Jade Cisneros, Ernesto A. Hernández-Morales, Armando Navarro-Huerta, Jan Blahut, Erika Bartuňková, Simon J. Teat, Rubén A. Toscano, Martin Dračínský* and Braulio Rodríguez-Molina*

