

Rapid Joule heating processing of nickel-based flexible supercapacitors

[Y Tian](#), [S Wang](#), [N Liu](#), [Q Xue](#), [X Qi](#), [H Liu](#)... - *Chemical Engineering ...*, 2025 - Elsevier

In this study, an ultrafast Joule heating method is employed to efficiently synthesize nickel sulfide and nickel oxide nanoparticles on buckypaper (Ni₃S₂-NiO@BP) as high-...

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Preparation of highly stretchable and reprocessable oxidized natural rubber/lipoic acid self-healing elastomeric composites and their application in human motion ...

[C Luo](#), [J Mao](#), [H Xu](#), [T Zhang](#), [Y Xu](#), [D Zhang](#)... - *Sustainable Materials and ...*, 2025 - Elsevier

Sustainable strain sensor development requires elastomers derived from bio-based materials with mechanical strength and self-healing properties to ensure durability, prolong service ...

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Interlocking reinforced graphitic material based on nanodiamond-derived nano-onion-helical carbon nanotube anchored structure

[Q Zhang](#), [J Fang](#), [W Ma](#), [A Li](#), [Q Liu](#), [R Chang](#)... - *Diamond and Related ...*, 2025 - Elsevier

In this study, high-strength graphitic materials (HSGs) were successfully achieved using nanodiamonds (NDs) and helical carbon nanotubes (HCNTs) as precursors in combination with ...

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Intelligent marine waterborne epoxy coating based on functionalized multiscale nanocomposite: Mechanical enhancement, self-reporting, and active/passive anti ...

[H Li](#), [XZ Meng](#), [HJ Yan](#), [RC Zheng](#), [HS Hu](#), [B Lei](#)... - *Journal of Materials ...*, 2025 - Elsevier

Corrosion activities and related accidents are significant issues for marine facilities, leading to considerable economic losses. Waterborne epoxy (EP) coating has been seen as one of ...

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Designing high-efficiency water transport channels in graphene oxide membranes through incorporating soft polyelectrolyte nanoparticles

[S Dong](#), [J Dong](#), [D Liu](#), [M He](#), [Z Liu](#), [J Zhao](#)... - *Journal of Membrane ...*, 2025 - Elsevier

The design of intercalation material in two-dimensional (2D) laminar membranes is critically important for achieving high-efficiency separation. In this work, we synthesized the soft and ...

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Hydrophobic modification of hydroxyl-rich metallic Sn catalysts for acidic CO₂ electroreduction at high current densities

[Y Li](#), [X Han](#), [S Fu](#), [L Guo](#), [S Chen](#)... - *Catalysis Science & ...*, 2025 - pubs.rsc.org

Acidic CO₂-to-HCOOH electrolysis emerges as a compelling avenue for achieving high CO₂ utilization, but is impeded by the exacerbated hydrogen evolution reaction (HER) under ...

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Oxygen cold plasma-induced synergy of structural defects and surface chemistry: Constructing dual Pd⁰/Pd^{δ+} sites for deep and stable 12H-NPCZ dehydrogenation

R Gao, C Wang, Z Zhang, Y Zhao, C Li, J Li... - International Journal of ..., 2025 - Elsevier

To address catalytic efficiency bottlenecks in liquid organic hydrogen carriers (LOHCs) dehydrogenation, we employed oxygen cold plasma technology to engineer dual carbon ...

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[PDF] rsc.org

Facile synthesis of CoFe₂O₄@SiO₂ nanoparticles anchored on reduced graphene oxide for highly efficient electromagnetic wave absorption

H Lu, C Li, K Chen, Q He, F Ren, J Wu, R Dai - RSC advances, 2025 - pubs.rsc.org

In this study, a ternary composite material composed of CoFe₂O₄@SiO₂ nanospheres and reduced graphene oxide (RGO) was successfully synthesized through a facile route. The ...

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Gold-platinum bimetallic nanowires on graphene oxide nanosheets for the oxygen reduction reaction

J Liu, X Song, X Li, P Chen, Z Cheng, H Zhong... - New Journal of ..., 2025 - pubs.rsc.org

In this study, gold-platinum nanowires (AuPt NWs) were successfully loaded onto graphene oxide (GO) to obtain graphene oxide-supported gold-platinum bimetallic nanowires (GO/...

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Tunable mixed-dimensional graphene oxide membranes via hollow tannic acid nanotube networks for ultra-selective dye and salt separation

Y Zhang, P Qi, H Zuo, Y Jin, S Li, Y Hu... - Chemical Engineering ..., 2025 - Elsevier

The permselectivity of lamellar graphene oxide (GO) membranes depends on the precise control of the interlayer spacing and the creation of rapid transport nanochannels. Herein, we ...

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Improved purification performance on molten steel of Al₂O₃-C based foam filter enhanced by microporous corundum-spinel powder

Z Chen, W Yan, H Li, Z Xia, G Li, N Li, J Yang - Ceramics International, 2025 - Elsevier

As the functional device, reticulated foam ceramic filters can improve the purity of molten steel by adsorbing non-metallic inclusions. In this work, three types of Al₂O₃-C based foam ...

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Solar-driven co-production of freshwater and electricity using Janus Nb₂CTX/graphene aerogels

L Zhao, T Zhao, C Yu, C Zhao, G Xing - Desalination, 2025 - Elsevier

Freshwater scarcity and energy shortages stand as two of the most pressing global challenges

confronting modern society. The integration of solar-driven interfacial evaporation with ...

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Hierarchical synergistic surface construction towards high-efficiency interfacial and mechanical enhancement in energetic polymer composites

G He, L Cao, R Zhong, J Xu, C Zeng, J Chen... - Applied Surface ..., 2025 - Elsevier

As important parts in weapon systems, polymer bonded explosives (PBX) are often subjected to different external stimuli, eg compression, tension and impact during manufacturing, ...

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Multifunctional Pressure/Strain Sensor Based on Dual-layer Mxene/ TiO₂/TPU and Its Application in Gesture Recognition

N Yang, X Yin, H Wang, Y Hui, X Zhou... - IEEE Transactions ..., 2025 - ieeexplore.ieee.org

As essential tools for monitoring human activities, flexible pressure and strain sensors have widespread applications in healthcare and smart devices, particularly in scenarios that ...

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based sap enrichment device combined with laser-induced breakdown spectroscopy for the minimally invasive detection of Cd (II) and Pb (II) in plants

S Zhang, H Yang, Y Wan, Y Shi, X Wang, G Liu... - Journal of Hazardous ..., 2025 - Elsevier

Detecting heavy metals in plants is highly important for diagnosing plant health and understanding the stress mechanisms induced by heavy metals. However, the minimally invasive ...

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[PDF] [ssrn.com](https://www.ssrn.com)

Interlocking Reinforced Graphite Blocks Based on Nanodiamond-Derived Nano-Onion-Helical Carbon Nanotube Anchored Structure

Q Zhang, J Fang, W Ma, A Li, Q Liu, R Chang... - Available at SSRN ... - papers.ssrn.com

In this study, high-strength graphite blocks (HSG) were successfully achieved using nanodiamonds (NDs) and helical carbon nanotubes (HCNTs) as precursors in combination with ...

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Enhancing the characteristics of phenolic acid decarboxylase via N-terminal substitution and investigating its immobilization

Q Li, Y Chen, H Zhao, Y Cheng, K Hu, J Li, A Liu... - BMC ..., 2025 - Springer

Background Phenolic acid decarboxylase (PAD) is an enzyme capable of catalyzing the nonoxidative decarboxylation of phenolic acids, yielding the corresponding 4-vinyl derivatives. ...

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Enhanced mechanical properties of GNPs/Al composites with a screw shell-like fracture surface

Z Zheng, H Huang, S Chen, D Chen, B Nie... - Journal of Alloys and ..., 2025 - Elsevier

Inspired by nature's "strong and tough" shell, a screw shell structure is exhibited in the tensile fracture as a result of the triaxial stress hot drawing's circumferential shear plastic ...

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[Mechanical properties of crosslinked graphene oxide intercalated HMX and CL-20 crystals](#)

[JD Quansah, X Zhang, ZH Xue, QL Yan - CrystEngComm, 2025 - pubs.rsc.org](#)

..., CL-20, and triamino-guanidine (TAG·HNO₃) were supplied by Hubei Institute of Aerospace

Chemical Technology, and graphene oxide (GO) was purchased from Nanjing [Jicang ...](#)

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[Fretting Wear Behavior of PVA-Based Hydrogels Under Dry Friction](#)

[F Xu, LL Ke, J Su - Tribology Letters, 2025 - Springer](#)

Hydrogels are ideal substitute materials for articular cartilage. The fretting wear behavior of polyvinyl alcohol (PVA) hydrogel and three types of PVA-based composite hydrogels under ...

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[Synergistic effect of MXene and Ag NP-decorated aligned Ag NWs on SERS](#)

[Z Tang, Q Su, D Xiao, J Wu, J Li, H Liang, X Li... - Surface ..., 2025 - emerald.com](#)

In this work, MXene and Ag nanoparticle (Ag NP)-decorated aligned Ag nanowires (Ag NWs) are applied to achieve surface-enhanced Raman scattering (SERS). MXene/Ag NP-...

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[Nature loofah network-inspired rapid thermal-conductive and thermochromic-based nanocomposites for efficient heat management in advanced electronic devices](#)

[J Yan, H Zhang, Y Bai, X Wei, X Zheng... - Polymer ..., 2025 - Wiley Online Library](#)

The development of 5G technology has raised concerns about the heat buildup in microelectronic

components, which can hinder device performance and integration. Inspired by the ...

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[Electrochemical synthesis of mesoporous silica/graphene nanocomposite and its application in enhanced strategy for sensing of tannins](#)

[Y Wang, J Liang, F Yan, H Li, L Xie, L Tang... - Journal of Food ..., 2025 - Elsevier](#)

In the present study, a novel mesoporous silica/nitrogen-doped graphene composite modified electrode (MS/NGR/GCE) is prepared using an in-situ electrochemical method. The large ...

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[Preparation of Mesoporous Molecular Sieve Supported CoO_x Catalyst and Its Improvement on the Performance of Synthetic Gas to Aviation Kerosene](#)

[Y Zhai, B Tang, R Wu, W Zhang, L Chen, H Sun... - Russian Journal of ..., 2025 - Springer](#)

Global demand for aviation kerosene has grown steadily over the past few decades. The preparation of aviation kerosene from syngas through Fischer–Tropsch synthesis is a ...

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Preparation and mechanical properties of functionalized graphene oxide and silane coupling agent modified carbon fiber/epoxy resin composites

Z Zhao, P Guo, Y Bian, X Zhao, M Yang, X Wei... - *Matéria (Rio de ...)*, 2025 - SciELO Brasil
To improve the interfacial bonding properties of carbon fiber-reinforced polymer (CFRP) composites, this study proposes an effective surface modification strategy for carbon fibers. A CF...

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Highly pressure-sensitive electronic skin based on the synergistic effect of a microfiber mesh/rough-surfaced carbon film/microstructural poly (dimethylsiloxane)

H Gu, Z Li, S Zhang, Y Hu, Y Zhao, H Xu... - *Applied Materials & ...*, 2025 - ACS Publications

Graphene (G) and carbon nanotubes (CNTs) have received increasing attention in the fabrication of electronic skins (E-skins) because of their outstanding electrical properties and ...

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Temperature Effects on Ag Nanoparticle Array-Monolayer WS₂ Composites for Plasmon-Driven Reduction of 4-Nitrothiophenol

Y Liu, M Li, J Meng, L Yang, H Duan, D Li... - *ACS Applied Nano ...*, 2025 - ACS Publications
Metal-WS₂ nanocomposites show excellent potential in numerous applications, especially in plasmon-driven catalysis reactions. Here, a WS₂-covered Ag nanoparticle array was ...

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Bovine Serum Albumin Quantification Sensors Based on Ion-Gel Gate Vertical Graphene Field Effect Transistors

Z Wu, H Song, R Liu, C Yin, L Ba - *Nano*, 2025 - World Scientific

In recent years, graphene biosensors have received much attention due to their high sensitivity, low noise and low detection limit. Vertical graphene field effect transistors (VGFETs) ...

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Immobilization of Covalent Triazine Framework into Hydrogels for Photothermal-Promoted Gas-Solid Photocatalytic Hydrogen Production

D Fan, C Zhao, Y Lu, G Zhang, Z Li, X Wang... - *Advanced ...*, 2025 - Wiley Online Library

Organic photocatalysts generally suffer from insufficient near-infrared light absorption and undesirable photogenerated charge transport properties, resulting in unfavorable hydrogen ...

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Facile Synthesis of MnCo₂O₄-MWCNTs Nanocomposites for Sensitive Determination of Sulfamethazine in Water Samples

Z Zhang, Z Hou, Y Xue, X Zhang, X Hong, J Ma... - ..., 2025 - Wiley Online Library

Transition metal oxide nanoparticles have garnered considerable attention due to their superior electrochemical catalytic performance and low cost, making them pivotal in the design of ...

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Exceptional Kinetics of Heavy Metals Adsorption from Wastewater Through Ta-Zr Mediated Hzo Nanoparticle Encapsulated within Mesoporous Carbon

H Qiu, S Chen, J Zhang, Q Zhang - Available at SSRN 5095853 - papers.ssrn.com

Traditional immobilization of nanosized metal oxides often causes nanoparticle clustering within the inner pores of carriers, leading to significant blockage and reduced mass transfer ...

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On the Damage Tolerance of Bioinspired Gradient Composites with Nacre-Like Architecture

N Zhang, Z Liu, Q Yu, X Li, Y Zhu... - Advanced Functional ..., 2025 - Wiley Online Library

... Natural graphite flakes with a median diameter of $\approx 18 \mu\text{m}$ and thickness of less than $8 \mu\text{m}$ (325 mesh, Jicang Nano., China) were added into the mixed powders in varying amounts ...

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Multi-stage anisotropic cellulose-based aerogels via “foam-flake-fiber” interweaving for versatile microwave absorbers

Z Sun, S Tian, Z Guo, J Bi, J Wang... - Advanced Functional ..., 2025 - Wiley Online Library

Controllable ice crystallization allows casting of isotropic or anisotropic porous aerogels to tailor versatile electromagnetic wave (EMW) absorbers. In this paper, a multivariate assembly-...

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Affinity Fishing of ACE Ligands from *C. axillaris* using Surface Functionalized Magnetic Nanoparticles

X Zhu, M Zhang, K Qin, X Qin, M Chi, Y Zhang... - Chromatographia, 2025 - Springer

Choerospondias axillaris (*C. axillaris*), recognized as an effective herbal remedy for coronary heart disease (CHD), has been clinically utilized. Although the angiotensin-converting ...

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Photo-and Electro-Responsive Super-Slippery Oleogel Coating for Ultra-Low Temperature Ice-Phobic Applications

R Zhang, H Zhang, S Dong, Y Yang... - Advanced Functional ..., 2025 - Wiley Online Library

Polar regions hold significant potential for energy and resource development, but extreme temperatures and persistent ice pose challenges to commercial shipping, resource exploration...

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Humidity-driven nonlinear modulation of graphene reflectivity via interfacial wetting behavior

C Li, Y Liu, [Z Wan](#), T Ma, [W Zhou](#), SC FAN - 2025 - researchsquare.com

... The 10-layer copper-based graphene used in this study was purchased from Nanjing [Jicang](#)

Nano Technology Co., Ltd. (Nanjing, China). Epoxy resin adhesive (14270) was obtained ...

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Cancer cell-coated PLGA nanoparticles loaded with sorafenib and Spions for hepatocellular carcinoma theranostics

Q Lin, Y Wen, Y Peng, T Shi, K Liu, Q Yu... - Current Drug ..., 2025 - benthamdirect.com

Introduction Hepatocellular carcinoma (HCC) is the sixth most common malignant cancer worldwide, but the chemotherapy drugs used in the treatment of HCC patients have limited ...

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Solar-activated hygroscopic TiVCTX/carbon nanotubes/graphene composite aerogels for efficient atmospheric water harvesting

Y Yang, T Zhao, L Zhao, J Song, C Yu, C Zhao... - Journal of ..., 2025 - Elsevier

In light of the escalating global water scarcity, atmospheric water harvesting (AWH) has emerged as a sustainable approach to supplement freshwater resources. In this study, we ...

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Structure and properties of Au/NG composites prepared based on different nitrogen sources

Y Song, J Xu, Y Sun, X Xu, X Tan, M Du... - Journal of Physics ..., 2025 - iopscience.iop.org

This study looked at different nitrogen sources used to make nitrogen-doped graphene composites loaded with gold. The structures and properties of the different composites were ...

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A new dual-mode enrichment strategy using MSPD and dynamic pH junction-sweeping MEKC for analyzing flavonoids and organic acids in complex matrices

W Li, Y Cheng, Y Gao, Y Qin, B Zhao, S Tong... - Microchemical ..., 2025 - Elsevier

This study presents a novel dual-stage enrichment strategy that integrates matrix solid-phase dispersion (MSPD) with dynamic pH junction-sweeping micellar electrokinetic ...

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Cyclodextrin-assisted vortex dispersive solid-phase extraction coupled with sweeping-field amplified sample stacking for CE analysis of weakly ionized components in ...

Y Cheng, Y Qin, W Sun, J Xu, G Zhong, X Peng... - ... of Chromatography A, 2025 - Elsevier
Simultaneous multi-component analysis of trace-level weakly ionized analytes in complex matrices remains a critical challenge for capillary electrophoresis (CE). To address this, this ...

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[\[HTML\] Thermal Interaction Mechanisms of Ammonium Perchlorate and Ammonia Borane](#)

Y Zhang, R Pu, S Chen, Q Yan - *Molecules*, 2025 - mdpi.com

Ammonia borane (AB), with a theoretical hydrogen content of 19.6 wt%, is constrained by its low crystalline density (0.758 g/cm³) and poor thermal stability (decomposing at 100 C). In ...

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[Portable miRNA profiling of sepsis-associated exosomes via a novel DNA molecular lock-mediated nanobiosensor](#)

W Xie, S Jia, R Yu, J Xue, S Bai, C Wang, G Tian... - *Chemical Engineering ...*, 2025 - Elsevier

Sepsis represents a life-threatening systemic inflammatory condition characterized by organ dysfunction, where the identification of specific biomarkers and development of effective ...

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[Exceptional kinetics of heavy metals adsorption from wastewater through tannic-mediated nano-hydrous zirconium oxide \(HZO\) encapsulated within mesoporous ...](#)

H Qiu, S Chen, J Zhang, Q Zhang - *Journal of Hazardous Materials*, 2025 - Elsevier

Conventional immobilization techniques for nanosized metal oxides frequently result in nanoparticle aggregation within the carrier matrix pores, causing severe pore blockage and ...

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[Triple-synergistic heterostructure nanocomposite achieving superior UV stability, stimuli-responsive protection, and corrosion resistance in marine coating](#)

H Li, HJ Yan, HS Hu, YL Zhang, QH Zhang... - *Journal of Materials ...*, 2025 - Elsevier

Ultraviolet (UV) irradiation and coupled environmental degradation cause premature failure of marine coatings, thereby exacerbating metal corrosion processes. Developing coatings ...

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... Oleic acid modified ferric oxide magnetic nanoparticles were purchased from Nanjing Jicang Nano Technology Co., LTD. (Nanjing, China). Dichloromethane (DCM) was purchased ...

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[Imprinted probes achieve highly specific recognition of L-phenylalanine](#)

Z Wang, J Li, Z Chen, Z Ma, H Han - Journal of Colloid and Interface ..., 2025 - Elsevier
Molecularly imprinted polymers (MIPs) for amphiphilic small molecules are typically synthesized

using a "monolithic imprinting" approach and enable target monolithic recognition, but ...

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This research introduces a synergistic photoelectrocatalytic (PEC) system designed for the effective degradation of tetracycline (TC), integrating a PO₄³⁻-grafted Mo-doped BiVO₄ (...)

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[Innovative NFC-based flexible sensing system for wireless and battery-free detection of H₂S: A game-changer in real-time fresh food freshness evaluation](#)

N Shi, Y Tong, B Xu, X Ge, [Y Cao](#), Y Han... - Chemical Engineering ..., 2025 - Elsevier

Worldwide, approximately 1.3 billion tons of food are wasted yearly, with food spoilage accounting for up to one-third of the total. However, there is no effective way to monitor the ...

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[Screening of pure silica zeolites with high ethane/ethylene separation selectivity by simulations and experiments](#)

P Zhang, J Hu, D Zhou, X Lu, [L Yang](#), L Chen... - AIChE ..., 2025 - Wiley Online Library

The advancement of ethane (C₂H₆)-selective materials offers the potential for developing energy-efficient adsorptive separation processes to obtain high-purity ethylene (C₂H₄) ...

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[Engineering Composite Membrane Architecture via Ultrasonic Spray Coating: Interlayered Organosilica Structures for Efficient Molecular Separation](#)

Q Wang, XP Lu, TD Lu, TZ Jia, YH Wang... - Journal of Membrane ..., 2025 - Elsevier

... Graphene oxide (GO) aqueous dispersion with GO monolayer ratio of greater than 99% was

purchased from Nanjing [Jicang](#) Nanotech. Other organic dyes, including methyl orange (MO...

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[2D/2D Co₃O₄/BiOCl nanocomposite with enhanced antibacterial activity under full spectrum: Synergism of mesoporous structure, photothermal effect and ...](#)

X Wang, Y Shao, C Yao, L Huang, W Song... - Journal of Colloid and ..., 2025 - Elsevier

The overuse of antibiotics has caused the emergence of drug-resistant bacteria and even superbugs, which makes it imperative to develop promising antibiotic-free alternatives.

Herein, ...

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Selective Hydroconversion of Polyaromatics into High-Density Endothermic Aviation Fuel over Highly Dispersed Pt/FAU Catalyst

[X Niu, F Huang, W Zhao, D Liu, Y Qin, X Zhang...](#) - Energy & ..., 2025 - ACS Publications

Selective hydroconversion of polyaromatics enriched in biomass pyrolysis oil into alkyladamantanes (PSA) and multibranched polycycloalkanes (SRO) for high-density endothermic ...

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Preparation and Characterization of Five Cucurbituril Supramolecular Hosts with Nicotine/Nornicotine: Solubility Enhancement and Thermal Stability

[P Lv, G Du, H Shi, Z Chu, B Yang - Haoyi and Chu, Zequn and Yang, Bo ...](#) -

[papers.ssrn.com](#)

Nicotine (NC) and nornicotine (NNC) are unique alkaloids found in tobacco, and their thermal stability and release properties significantly affect their applications. Inclusion ...

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Performance of Co–Cu bimetallic catalysts for catalytic syngas to produce higher alcohols: Influence of the preparation methods, CoCu ratios, and carriers

[X Hu, F Li, K Shi, L Han, Y Che](#) - International Journal of Hydrogen Energy, 2025 - Elsevier

Higher alcohols (C 2+ mixed alcohols) have attracted much attention due to their high application value in the fuel, chemical industry, and the environment. Producing higher alcohols ...

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BioSensGraph: Predicting Biopolymer Interactions via Knowledge Graph Embedding on a Property Graph of Molecular Entities

[P Bogdanov, N Shirokii, Y Din, EV Nam, IA Golovkin...](#) - openreview.net

Existing biomedical knowledge graphs are primarily geared toward drug repurposing and pathway analysis (gene–disease–drug). For biosensing, however, the primary early-stage ...

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Regulation of neuroimmune microenvironment by PLA/GO/Anti-TNF- α composite to enhance neurological repair after spinal cord injury

Y Liu, J Liu, Y Wang, Y Zhang, Z Peng, P Li... - International Journal ..., 2025 - Taylor & Francis

Introduction Spinal cord injury (SCI) is a severe neurological condition with limited treatment options. Polylactic acid (PLA)+graphene oxide (GO)+anti-TNF- α (Ab) composites have ...

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Photoswitchable Enzymatic Biofuel Cell for Controlled Drug Release

C Yang, S Ding, A Zhu - Available at SSRN 5288050 - [papers.ssrn.com](#)

This study introduces an on-demand drug delivery system that utilizes a switchable enzymatic biofuel cell (EBFC) regulated by photochemical mechanisms. The system generates ...

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Investigation of NH₄⁺ Removal via Activated Carbon//MnO₂ Hybrid Membrane Capacitive Deionization

L Xue, Z Chen, J Wu, X Sun, Y Wang... - Water Environment ..., 2025 - Wiley Online Library

Membrane capacitive deionization (MCDI) technology has been regarded as a promising alternative for ammonia nitrogen (NH₄⁺) removal from wastewater. However, NH₄⁺ ...

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Efficient in-situ catalytic upgrading of tobacco biomass pyrolysis to produce burnt sweet fragrance substances over reduced graphene oxide supported ceria-based ...

S Liu, N Shao, Y Pan, Y Hu, C Zhang, X Zhu - Biomass and Bioenergy, 2025 - Elsevier

China is the world's largest producer and consumer of tobacco and the comprehensive utilization of tobacco biomass (TB) has become an urgent problem. The purpose of this work was ...

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[HTML] Research on the laser ablation threshold of the graphene/aluminum foil interface surface

Y Xu, Y Lv, D Zhou, Y Chen, B Su - Coatings, 2025 - [mdpi.com](#)

The aim was to investigate the impact of laser parameters on the surface morphology of ablated graphene and elucidate the interaction mechanism between carbon materials and ...

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Electrically Stable and Reliably Adhered E-Skin for Heart Health Monitoring

X Zhao, Z Zhao, X Wen, Y Huang... - ACS Applied Materials & ..., 2025 - ACS Publications

Electronic skin (e-skin) has been extensively investigated for its potential application in heart health monitoring, such as screening cardiovascular diseases and evaluating cardiac ...

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Perovskite-Graphene Heterostructure Biosensor Integrated with Biotunable Nanoplasmonic Ternary Logic Gate for Ultrasensitive Cytokine Detection

[J Sun, L Zhou, Z Li, G He, H Mao, J Zhao...](#) - *Advanced ...*, 2025 - Wiley Online Library

The integration of 2D-materials and optoelectronic devices has attracted great attention for advanced applications. We propose the first perovskite/graphene heterostructure-based FET ...

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