

Preparation and enhanced mechanical properties of novel Al₂O₃-C ceramic filter reinforced by microporous powder and SiC whiskers

W Yan, Z Chen, [G Li](#), S Hong... - Journal of the American ... , 2024 - Wiley Online Library

In present work, the novel Al₂O₃-C ceramic filter fabricated by using microporous corundum-spinel powder instead of dense Al₂O₃ powder and reinforced by SiC whiskers is ...

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CNTs-induced superhydrophobic and photothermal coating with long-term durability and self-replenishing property for anti-icing/de-icing

L Deng, Z Wang, Y Niu, F Luo, Q Chen - Composites Science and ... , 2024 - Elsevier

Ice formation and accumulation of various equipment often leads to economic loss and severe

traffic accidents. Although numerous anti-icing coating strategies have been exploited in ...

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Carbon nanotube/polyvinylidene fluoride flexible composite material with low percolation threshold and adjustable negative permittivity

Z Mu, Y Sun, [Z Shen](#), [G Liang](#), [J Zou](#), P Xie - Advanced Composites and ... , 2024 - Springer

In the interdisciplinary fields of materials science, electromagnetics, and optics, the negative dielectric constant, as a unique physical property, is gradually attracting widespread ...

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Negative permittivity of polyimide-based percolative composites with zero/one dimensional functional fillers

Y Lu, P Yang, Z Wang, B Liu, [K Sun](#), M Pan... - Composites ... , 2024 - Elsevier

The construction of conductor/insulator composites based on percolation theory is a hot method for achieving negative permittivity in the radio frequency range. The morphology of ...

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Temperature Effects on Hybrid of Ag Nanoparticles and Monolayer MoS₂ for Surface-Enhanced Raman Spectroscopy

Y Liu, M Li, Q Li, Y Liu - ACS Applied Nano Materials, 2024 - ACS Publications

... Poly(methyl methacrylate) (PMMA) anisole solution (4%) was purchased from Nanjing [Jicang](#) Nanotechnology. The MoS₂ monolayer was provided by Shenzhen Six Carbon ...

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Enhancing mechanical properties and thermal conductivity in polymer bonded explosives by multi-scale surface modification of carbon fibers

G He, P Wang, R Zhong, X Li, H Yin, J Chen... - Composites Part A ... , 2024 - Elsevier

Poor interfacial interaction and strength largely restrict the overall performance and practical application of carbon fibers (CFs) reinforced composites. The favorable interfacial ...

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[H Yan, J Wang, N Shi, Y Han, S Zhang...](#) - *Chemical engineering ...*, 2024 - Elsevier

A chemiresistive ethylene gas sensor was fabricated for fruit wearable based on SWCNTs/PdNPs/Cu-MOF-74

(SPM) nanocomposite which was attached to a flexible PET substrate (...)

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[Y Qin, W Gao, J Xu, L Ping, S Tong, B Liu, C Chu](#) - *Analytica Chimica Acta*, 2024 - Elsevier

Background Capillary electrophoresis is a powerful analytical method featured with high separation efficiency, minimal sample requirements, and reduced organic solvents consumption...

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[Silica-supported ionic liquid for efficient gaseous arsenic oxide removal through hydrogen bonding](#)

[H Zhang, L Wang, Y Xie, S Zhang, P Ning...](#) - *Journal of Hazardous ...*, 2024 - Elsevier

The emission of highly-toxic gaseous As₂O₃ (As₂O₃ (g)) from nonferrous metal smelting poses environmental concerns. In this study, we prepared an adsorbent (S M IL-X) by ...

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[C Li, W Han, T Zhu, L Liu, Y Zhao, F Luo...](#) - *ACS Applied Nano ...*, 2024 - ACS Publications

Formic acid, renowned as an exceptional hydrogen storage candidate, has garnered significant

attention. However, its widespread application in the hydrogen economy is impeded by ...

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[Interfacial reaction induced mechanical behaviors in graphene reinforced Nb/Nb₅Si₃ composites](#)

[B Xiong, F Zheng, D Cheng, Q Zhu, Z Niu...](#) - *Materials Today ...*, 2024 - Elsevier

Fabricating high-toughness Nb/Nb₅Si₃ composites without sacrificing their strength is a challenge. Here, a novel and promising strategy is suggested for developing the graphene ...

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[Synthesis, characterization, and efficacy evaluation of a PH-responsive Fe-MOF@ GO composite drug delivery system for the treating colorectal cancer](#)

[JJ Shen, SJ Xue, ZH Mei, TT Li, HF Li, XF Zhuang...](#) - *Heliyon*, 2024 - cell.com

Luteolin is a potent anti-colorectal cancer chemical. However, its effectiveness is hindered by its poor solubility in water and fat, and it is easy to degrade by gastrointestinal enzymes. In ...

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Performance improvement of organic light-emitting diodes with graphene oxide-based hole transport layer

X Du, J Yang, S Cui, X Liu - Fourth International Conference on ..., 2024 - spiedigitallibrary.org

... Graphene oxide was a brown powder, purchased from Nanjing Jicang NanoTechnology Co. Ltd. Water-soluble copper phthalocyanine was dark blue particles, purchased from ...

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Desensitization and stabilization of HMX crystals by intercalation of crosslinked graphene oxide

XX Zhang, X Zhang, C Zhang, X Zhao, ZJ Yang... - Chemical Engineering ..., 2024 - Elsevier

It is challenging to balance the energy and sensitivity for the development of energetic materials

(EMs). In this paper, the HMX crystals with improved energy density but lower sensitivity ...

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Enhancing strength and toughness of GNS/Al nanocomposites via a hybridization strategy

J Zhang, M Qian, X Zhang, A Li, L Geng - Materials & Design, 2024 - Elsevier

Good strength-ductility balance in graphene nanosheet (GNS)-reinforced aluminum nanocomposites can be achieved through tailorable and facile agglomeration control. Our previous ...

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Facilitating Water Permeation in Graphene Oxide Membranes via Incorporating Sulfonato Calix [n] arenes

Y Ji, S Dong, Y Huang, C Yue, H Zhu, D Wu, J Zhao - Membranes, 2024 - mdpi.com

Graphene oxide (GO) with its atomic thickness and abundant functional groups holds great potential in molecular-scale membrane separation. However, constructing high-speed and ...

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Strengthening mechanisms in graphene reinforced Nb/Nb₅Si₃ composite

B Xiong, D Cheng, F Zheng, F Peng, Q Zhu... - Journal of Alloys and ..., 2024 - Elsevier

Understanding strengthening mechanisms is essential to tailor mechanical properties of composites. The strengthening mechanisms in graphene reinforced Nb/Nb₅Si₃ composite ...

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Affinity Fishing of ACE Ligands from Choerospondias axillaris using Surface Functionalized Magnetic Nanoparticles

X Zhu, M Zhang, K Qin, X Qin, M Chi, Y Zhang, H Wang... - 2024 - researchsquare.com

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

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[A fire resistant MXene-based flexible film with excellent Joule heating and electromagnetic interference shielding performance](#)

R Chang, P Hao, H Qu, J Xu, J Ma - *Journal of Colloid and Interface ...*, 2024 - Elsevier

Flexible films with thermal management capability and efficient electromagnetic interference (EMI) shielding performance are highly needed for electronic devices. Moreover, it remains ...

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[Highly dispersed nanocomposite based on magnesium ion modified and silver nanoparticles loaded graphene oxide for enhanced antibacterial activity of silicone ...](#)

X Zhang, Z Zhang, J Xing, Y Qi, Z Wu - *Diamond and Related Materials*, 2024 - Elsevier

Silver nanoparticles (Ag NPs) possess excellent antibacterial properties and have received widespread attention. However, the poor dispersion and easy aggregation of Ag NPs can ...

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[An ultrasensitive electrochemical sensor based on boron-doped porous graphene for efficient detection of nitrite in food](#)

R Yu, M Chen, X Li, J Liu, Z Cheng, H Zhong... - *Journal of Food ...*, 2024 - Elsevier

Boron (B) doping plays a critical role in adjusting the electronic properties of carbon materials. In this work, B-doped porous graphene (B-PG) was successfully prepared by a simple ...

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[Ultra-stable threose nucleic acid-based biosensors for rapid and sensitive nucleic acid detection and in vivo imaging](#)

P Li, C Zhu, [LS Liu](#), CTJ Han, HC Chu, Z Li, Z Mao... - *Acta Biomaterialia*, 2024 - Elsevier

The human genome's nucleotide sequence variation, such as single nucleotide mutations, can cause numerous genetic diseases. However, detecting nucleic acids accurately and ...

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[Enhanced Pressure Response of Edge-Deposited Graphene Nanomechanical Resonators](#)

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Nanomechanical resonators made of suspended graphene exhibit high sensitivity to pressure changes. Nevertheless, the graphene resonator pressure performance is affected owing ...

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[Amplified internal electric field of Cs₂CuBr₄@ WO₃- x S-scheme heterojunction for efficient CO₂ photoreduction](#)

Z Zhang, X Wang, J Qian, J Xu - *Journal of Energy Chemistry*, 2024 - Elsevier

Heterojunction construction, especially S-scheme heterojunction, represents an efficient universal strategy to achieve high-performance photocatalytic materials. For further ...

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[A polystyrene acrylate-polysiloxane multicomponent protective coating with interpenetrating polymer network structure for cementitious materials](#)

C Wu, D Hou, B Yin, B Chen, Z Li - *Progress in Organic Coatings*, 2024 - Elsevier

The polystyrene acrylate (PSA) coating and polysiloxane coatings can protect the durability of cementitious materials through surface barrier and internal hydrophobicity, respectively. ...

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[Constructing novel GO microcomposite membranes with \$\beta\$ -CD based microporous nanosheets for efficient dye/salt separation](#)

SL Li, D Cheng, N Ullah, Y Chen, XM Wang, M Wang... - *Desalination*, 2024 - Elsevier

Graphene oxide (GO) membrane is considered as one of the preferred choice for textile wastewater treatment thanks to its unique 2D interlayer channel features. However, GO laminar ...

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[Mesoporous TiO₂ matrix embeded with Cs₂CuBr₄ perovskite quantum dots as a step-scheme-based photocatalyst for boosting charge separation and CO₂ ...](#)

J Qian, H Hu, Y Liang, Z Zhang - *Applied Surface Science*, 2024 - Elsevier

Halide perovskite quantum dots (PQDs) have shown great promise for the photochemical conversion of CO₂. However, the fast carrier recombination rates and inadequate adsorption/...

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[Selective separation of structurally similar alkaloids by graphene oxide membranes](#)

J Cui, Q Wu, F Li, J Yang, H Yin, H Zhang... - *Separation and ...*, 2024 - Elsevier

Matrine (MT) and oxymatrine (OMT) are alkaloids coexisting in *Sophora flavescens*, and they have similar structure but different clinical applications. Graphene oxide (GO) membranes ...

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[UV-protective and flexible electrospun nanofiber-based pressure sensor for outdoor activity monitoring](#)

H Liu, N Yang, Q Zhang, X Yan, X Zhang... - *IEEE Transactions ...*, 2024 - ieeexplore.ieee.org

The development of flexible pressure sensors with ultraviolet (UV) shielding property is of great significance for outdoor activity monitoring devices. In this work, we propose a flexible ...

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[A step-scheme-based Cs₃Bi₂Br₉ perovskite quantum dots@ mesoporous Nb₂O₅ photocatalyst with boosted charge separation and CO₂ reduction](#)

J Qian, Y Ling, S Huang, Z Zhang, J Xu - *Journal of Colloid and Interface ...*, 2024 - Elsevier

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Abnormalities of deoxyribonucleic acid (DNA) bases include guanine (G), adenine (A), thymine (T), and cytosine (C) in organisms could cause defects or mutations in the immune ...

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[Multi-crosslinked robust alginate/polyethyleneimine modified graphene aerogel for efficient organic dye removal](#)

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Polymer composite aerogel holds great promise for sewage treatment. Here, a novel triply crosslinked alginate/graphene aerogel for efficient organic dye removal was reported. The ...

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Ground LiDAR is a terrestrial LiDAR system that is often used for terrain and geomorphic mapping. Ground-based LiDAR can be used to collect more local and short-range data, making ...

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S Chen, M Yu, ZH Xue, Y Ding, C Zhang, QL Yan - *Materials*, 2024 - mdpi.com

2,4,6,8,10,12-hexanitro-2,4,6,8,10,12-hexaazaisowurtzitane (CL-20) is one of the high-energy oxidants, but has limited application due to its high sensitivity. In this work, polyvinylidene ...

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[A novel ratiometric electrochemical immunosensor for the detection of cancer antigen 125 based on three-dimensional carbon nanomaterial and MOFs](#)

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Accurate and sensitive detection of cancer antigen 125 (CA125) is important in early ovarian cancer diagnosis and monitoring. In the present work, a novel electrochemical ratiometric ...
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Graphene oxide intercalated with MXene as composite membranes with improved permeability for wastewater treatment

R Chang, J Ma, Y Hou, J Xu - *ACS Applied Nano Materials*, 2024 - ACS Publications
Graphene oxide (GO)-based membranes have exhibited fascinating superiority in water treatment. However, water transfer resistance caused by the tortuous interlayer pathway and ...

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[HTML] Thermoplastic Polyurethane Derived from CO₂ for the Cathode Binder in Li-CO₂ Battery

H Wu, X Huang, M Xiao, S Wang, D Han, S Huang - *Nanomaterials*, 2024 - mdpi.com
High-energy-density Li-CO₂ batteries are promising candidates for large-capacity energy storage systems. However, the development of Li-CO₂ batteries has been hindered by low ...

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TiVCT_x MXene/Graphene Nanosheet-Based Aerogels for Removal of Organic Contaminants from Wastewater

T Lv, F Wu, Z Zhang, Z Liu, Y Zhao, L Yu... - *ACS Applied Nano ...*, 2024 - ACS Publications
Efficient removal of broad-spectrum organic pollutants is crucial in wastewater treatment. This research focuses on the synthesis of three-dimensional TiVCT X MXene/graphene ...

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Oxidation control preparation of chromium-based MXene as ultrahigh performance barrier nanosheets for corrosion protection

Y Ning, B Liu, Q Wang, Z Wang, Y Song, J Lv - *Corrosion Science*, 2024 - Elsevier
Cr₂CT_x nanosheets were obtained through the utilization of FeCl₃ + tartaric acid to etch Cr₂AIC, taking advantage of the disparities in redox reactions and metal complex formation ...

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Regulation of interlayer channels of graphene oxide nanosheets in ultra-thin Pebax mixed-matrix membranes for CO₂ capture

F Yang, Y Jin, J Liu, H Zhu, R Xu, F Xiangli... - *Chinese Journal of ...*, 2024 - Elsevier
For the application of carbon capture by membrane process, it is crucial to develop a highly permeable CO₂-selective membrane. In this work, we reported an ultra-thin polyether-block-...

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Negative permittivity of reduced graphene oxide/polyvinylidene fluoride membranous composites adjusted by heat treatment: K. Sun et al.

[K Sun](#), [MH Zhao](#), [PT Yang](#), [M Chen](#), [Q Hou](#), [WX Duan](#)... - *Rare Metals*, 2024 - Springer

Flexible composites with negative permittivity have a very broad development prospect in flexible electronics and wearable devices. Currently, how to control the negative permittivity ...

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[X Wen](#), [Z Zhao](#), [Y Chen](#), [X Shan](#), [X Zhao](#), [X Gao](#)... - ... *Composites and Hybrid ...*, 2024 - Springer

Multifunctional integrated flexible electronic skin (e-skin) is the essential medium for information exchange between humans and machines. Especially, the proximity/pressure/strain ...

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Effect of Normal Load on the Nanofriction Behavior of Graphene on Stainless-Steel Substrate: Implication for Nanoscale Lubrication

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... The preparation and transfer process of graphene were provided by Nanjing [JCNANO](#) Technology Co., Ltd. The Raman spectra show that the number of graphene layers is a single ...

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Revealing the Interlayer Interaction Forces in 2D Graphene Materials by Graphene-Wrapped Nanoprobe

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... Large-area monolayer graphene was grown on a piece of copper foil by using the CVD method ([JCNANO](#) product, JCVSG). The graphene/copper sample was spin-coated with a layer ...

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... Additionally, graphene, a single-layer silica-based sample, was synthesized via chemical vapor deposition by Nanjing [JCNANO](#) Tech Co., Ltd, China. The based silica and the silica ...

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Atomically dispersed MoNi alloy catalyst for partial oxidation of methane

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... The as-synthesized NCs were rapidly impregnated onto SBA-15 supports ([JCNANO Com.](#)) with ultrasonic treatment (10 min) for well dispersion. After overnight drying at 70 C, the ...

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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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An "On-Site Transformation" Strategy for Electrochemical Formation of TiO₂ Nanoparticles/Ti₃C₂T_x MXene/Reduced Graphene Oxide Heterojunction Electrode ...

[Y Zhu](#), [TH Liu](#), [W Zhou](#), [M Shi](#), [M Wu](#), [P Shi](#)... - *Small* ..., 2024 - [Wiley Online Library](#)

Ascribing to the abundance of Ti element, exceptional electrical conductivity, and electrocatalytic

performance, titanium carbide MXene (Ti₃C₂T_x, MX) is considered as an ideal ...

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Ultra-low detection limit self-sensing nanocomposites with self-assembled conductive microsphere arrays for asphalt pavement health monitoring

[L Su](#), [Y Jiao](#), [J Wang](#), [Y Zhang](#), [M Liang](#), [X Xin](#)... - ... and *Building Materials*, 2024 - [Elsevier](#)

Accurately monitoring micro-level strain within pavements poses a significant challenge in contemporary road engineering, limiting the effectiveness of early-stage pavement health ...

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Efficient and rapid digestion of proteins with a dual-enzyme microreactor featuring 3-D pores formed by dopamine/polyethyleneimine/acrylamide-coated KIT-6 ...

[FF Yuan](#), [P Wang](#), [XJ Han](#), [TT Qin](#), [X Lu](#), [HJ Bai](#) - *Scientific Reports*, 2024 - [nature.com](#)

The microreactor with two types of immobilized enzymes, exhibiting excellent orthogonal performance, represents an effective approach to counteract the reduced digestion efficiency ...

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Comparison of lubrication mechanism and friction behavior of graphene on stainless steel substrate at different scales

W Guo, Q Bai, K Deng, Y Dou, T Wang, H Wang - Applied Surface Science, 2024 - Elsevier

Graphene at both nano and macro scales reduces friction in stainless steel, but there are differences in the lubrication mechanisms of graphene at the two scales. In macroscopic friction...

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Caracterização de filamentos comerciais de PLA e avaliação dos parâmetros de manufatura aditiva na condutividade térmica

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A manufatura aditiva, uma tecnologia que vem ganhando grande popularidade nos últimos anos, permite a produção de peças a partir de modelos 3D. Entre as sete subdivisões ...

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The electron irradiation effect on reduced graphene oxide paper

X Zhen, Y Huang, G Wang, Z Feng, S Yang... - Radiation Physics and ..., 2024 - Elsevier

The reduced graphene oxide paper (rGOP) has been irradiated with different energy and dose, namely 200 keV and 1000 keV electron with dose ranging from 2×10^{14} e/cm² × 10 ...

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Novel RNA genosensor based on highly stable gold nanoparticles decorated phosphorene nanohybrid with graphene for highly sensitive and low-cost ...

Y Wang, W Wang, X Lu, T Chen, Y Wang, Y Wen, J Hu... - Microchimica Acta, 2024 - Springer

Coconut cadang-cadang viroid (CCCVd) is an infectious single-stranded RNA (ssRNA) pathogen, which leads directly to the death of a large number of coconut palm trees and heavy ...

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Versatile lamellar wrap-structured PVDF/PZT/CNTs piezoelectric sensor for road traffic information sensing, monitoring, and energy harvesting

M Liang, J Wang, L Su, X Xin, Z Chen, Y Zhang... - Chemical Engineering ..., 2024 - Elsevier

Active monitoring and accurate sensing of road traffic information provide crucial data for road managers and traffic law enforcement. However, current sensors and monitoring systems ...

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Quantification of glycated hemoglobin in total hemoglobin by a simultaneous dual-signal acquisition approach

J Wang, Q Xiong, S Zhang, H Han, Z Ma - ACS sensors, 2024 - ACS Publications

The glycated hemoglobin (HbA 1c) level, which is defined as the ratio of HbA 1c to total hemoglobin (tHb, including glycated and unglycated hemoglobin), is considered one of the ...

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Fabrication of polydopamine/graphene oxide composite membranes for effective radionuclide removal

C Li, Z Li, YH Chiao, K Guan, X Zhang... - Colloids and Surfaces A ..., 2024 - Elsevier

As the energy consumption surges in the past few decades, the utilization of reliable and cost-effective energy resources with minimum greenhouse gas emission is highly desirable, for ...

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Supplementary H₂O₂ generation in capacitive deionization with a three-phase architecture and its application in simultaneous desalination and organics control

J Wu, Z Chen, F Lv, J Li, Y Li - Chemical Engineering Journal, 2024 - Elsevier

Cathodic oxygen reduction, as a Faradaic side reaction, has been proven to be thermodynamically

favorable for H₂O₂ generation in capacitive deionization (CDI), which may provide ...

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Electrochemiluminescent biosensor based on AuNPs@PEI/MWCNTs and OMC@ Ru (bpy) ³⁺ for the detection of Vibrio parahaemolyticus

Y Zhang, L Yan, L Tian, Q Guo, M Sang, S Dou, F Li... - Electrochimica ..., 2024 - Elsevier

Vibrio parahaemolyticus (VP) is one of the most common pathogens in aquatic products, and its study using electrochemiluminescence is still relatively rare. In this study, an ...

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Insight into the scaling behavior of capacitive deionization for the removal of multiple cation components in the single-pass mode

J Wu, Z Chen, J Zhang, Y Li - Separation and Purification Technology, 2024 - Elsevier

Capacitive deionization (CDI) can effectively remove various ions in seawater and brackish water. However, due to the complex cation components in natural water, the desalination ...

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