

## 2023 年吉仓客户所发文章汇总 53 篇

其中 JCNANO 39 篇, Ji cang 14 篇

1. [Bio-inspired metallic cellular material with extraordinary energy dissipation capability](#)  
J Feng, B Safaei, Z Qin, F Chu, F Scarpa - Chemical Engineering Journal, 2023 - Elsevier  
Graphene coating on the skeleton of porous material opens the door to simply achieving high-performance composites. In this study, relying on the adhesive properties of polydopamine ...  
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2. [SnO<sub>2</sub>/graphene nanocomposite for effective detection of CO at room temperature](#)  
L Li, C Wang, Z Ying, W Wu, Y Hu, W Yang... - Chemical Physics ..., 2023 - Elsevier  
A low concentration CO gas sensor at 25 C based on SnO<sub>2</sub> modified graphene nanocomposite was reported in this paper. The SnO<sub>2</sub> /graphene nanocomposite has higher CO gas ...  
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3. [Investigation of the Effect of Aspect Ratio of Graphene Nanoplatelets on the Microstructure of Copper Matrix Composites](#)  
D Zhang, M Ding, Y Xu, H Li, W Gao - Russian Journal of Physical ..., 2023 - Springer  
In this study, the effect of aspect ratio of graphene nanoplatelets (GNPs) on the microstructure and properties of copper matrix layered composites were investigated. The Cu layered ...  
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4. [Nature-inspired energy dissipation sandwich composites reinforced with high-friction graphene](#)  
J Feng, B Safaei, Z Qin, F Chu - Composites Science and Technology, 2023 - Elsevier  
... rGO used in this study is provided by Nanjing JCNANO Tech Co., Ltd, of which the diameter, carbon content and oxygen content are about 0.5–10 nm, about 83.4 wt% and about 7.6 wt%...  
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5. [An encapsulation strategy of graphene humidity sensor for enhanced anti-interference ability](#)  
Y Huang, Z Zeng, T Liang, J Li, Z Liao, J Li... - Sensors and Actuators B ..., 2023 - Elsevier  
... The small GO encapsulated humidity sensor was obtained by spraying with the same concentration of small size GO solution purchased from Nanjing JCNANO Technology CO., Ltd. (...  
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[\[PDF\] researchgate.net](#)
6. [The effects of fluoropolymers with optimized contents on reactivity and combustion behavior of Al/MxOy nanocomposites](#)

K Xiong, W Zhang, Y Wang, R Liu, S Yang, [H Nie](#)... - Combustion and ..., 2023 - Elsevier  
Recently fluoropolymers are of great interest as an oxidative binder and modifier in Al-based metastable intermixed composites (MICs) due to the high heat of reaction between Al-F and ...

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7. [Highly sensitive graphene-based ammonia sensor enhanced by electrophoretic deposition of MXene](#)

Q Li, M Xu, [C Jiang](#), S Song, T Li, M Sun, W Chen... - Carbon, 2023 - Elsevier

Herein, we reported a gas sensor based on MXene/Graphene composite sensitive film for low-concentration ammonia detection. Specifically, we use the electrophoretic deposition ...

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8. [Insights into H<sub>2</sub>S-absorption and oxidation-regeneration behavior of Ni-doped ZnO-based sorbents supported on SBA-15 for desulfurization of hot coal gas](#)

X Wang, R Zhang, Q Li, J Mi, M Wu - Fuel, 2023 - Elsevier

Sulfur removal from hot coal gas is one of important technologies for highly efficient coal-based

energy system. H<sub>2</sub>S-absorption and oxidation-regeneration behavior of Ni-doped ZnO-...

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9. [Impact of GNP content on cure behaviors and diverse properties of epoxy composites modified with graphene nanoplatelets: A comprehensive study](#)

Y Zhu, L Su, J Deng, M Liang, C Xu, Y Jiao... - Materials Today ..., 2023 - Elsevier

... The GNP used in the present investigation were obtained from JCNANO Technology Company, and used directly without further purification. According to the supplier's data, the ...

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10. [3D tubular graphene sponge/PEDOT: PSS based stretchable and flexible device for noninterfering pressure-temperature detection](#)

ZC Zhao, ST Ding, XH Wen, HP Ma, XF Zhao - Sensors and Actuators A ..., 2023 - Elsevier

Skin-like pressure- and temperature-sensing capabilities are two important indicators for artificial human skins and flexible wearable sensors. However, artifact interference between ...

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11. [Synthesis of a novel magnetic chitosan-mediated GO dual-template imprinted polymer for the simultaneous and selective removal of Cd \( II \) and Ni \( II \) from aqueous ...](#)

Y Bao, S Liu, N Shao, Z Tian, X Zhu - Colloids and Surfaces A ..., 2023 - Elsevier

... GO was obtained from Nanjing JCNANO Co., Ltd. The procurement of the following chemicals

used in this study, including FeCl<sub>3</sub>, MnSO<sub>4</sub> · H<sub>2</sub>O, CdCl<sub>2</sub> · 2.5 H<sub>2</sub>O, NiSO<sub>4</sub> · 6 H<sub>2</sub>O, ...

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12. [Facile Synthesis of Platinum Nanoparticle-Embedded Reduced Graphene Oxide for the Detection of Carbendazim](#)

S Pushparajah, S Hasegawa, [TSH Pham](#), [M Shafiei](#)... - Materials, 2023 - mdpi.com

In recent years, there has been a significant interest in the advancement of electrochemical sensing platforms to detect pesticides with high sensitivity and selectivity. Current research ...  
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13. [An experimental study of the combustion characteristics of novel Al/MOX/PVDF metastable intermixed composites](#)

W Zhang, K Xiong, Z Fan, Y Shu, P Liu, [Q Yan](#)... - Aerospace Science and ..., 2023 - Elsevier

The combustion of metastable intermixed composites (MICs) containing fluoropolymers is yet still not well understood. In this study, five new Al/MO X /PVDF nanocomposites (MO X : ...

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14. [Manipulating gas transport channels in graphene oxide membrane with swift heavy ion irradiation](#)

H Yang, [G Chen](#), L Cheng, [Y Liu](#), Y Cheng... - Separation and ..., 2023 - Elsevier

... GO nanosheets with different sizes were purchased from Nanjing JCNANO Tech Co., Ltd. Polyether sulfone (PES) substrates with a pore size of 220 nm were obtained from Haining ...

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15. [Covalent organic framework-based immunosensor to detect plasma Latexin reveals novel biomarker for coronary artery diseases](#)

X Li, H Wan, Y Tian, J Wang, S Xu, [K Huang](#)... - Analytica Chimica ..., 2023 - Elsevier

It is a great challenge to develop an efficient and rapid method to detect of biomarkers of cardiovascular disease. In this research, a differential pulse voltammetry (DPV)-based ...

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16. [Shielding effect of hydrophobic graphene on contact time dependence of adhesion force and instability with repeated contacts at silica/silica interface](#)

[T Lai](#), M Guo, Y Chen, T Zhu - The Journal of Adhesion, 2023 - Taylor & Francis

Contact time dependence of adhesion force demands clarification. Under a humid condition, with some tipless silica cantilevers, adhesion forces on silica and silica-based graphene ...

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17. [Robust orientation-3D conductive network enabled high-performance flexible sensor for traffic monitoring: Role of surface functionalization on self-assembled ...](#)

L Su, M Liang, J Wang, X Xin, Y Jiao, C Wang... - Chemical Engineering ..., 2023 - Elsevier

... Carbon nanotubes (CNTs) and aminated carbon nanotubes (CNT-N) were provided by JCNANO Technology Company. The purity, average diameter, length, and specific surface area ...

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18. [Oxidized Graphene Alleviates Benzo\[a\]pyrene-Induced Cytotoxicity by Suppressing Mitochondrial Apoptosis Pathways](#)

Y Wei, H Sun, [B Yan](#) - ACS Sustainable Chemistry & Engineering, 2023 - ACS Publications  
Environmental carbon nanomaterials such as multi-walled carbon nanotubes (MWCNTs) and graphene oxides (GOs) may interact with aromatic hydrocarbon pollutants, such as benzo[...]  
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19. [Real-time detection of isoprene marker gas based on micro-integrated chromatography system with GOQDs-modified  \$\mu\$ GC column and metal oxide gas detector](#)

B Han, X Zhang, Y Wang, W Wang, B Wang, S Li... - ..., 2023 - iopscience.iop.org  
Isoprene is a typical physiological marker that can be used to screen for chronic liver disease. This work developed a portable micro-integrated chromatography analysis system based ...  
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20. [A super-hydrophilic honeycomb activated carbon evaporator for simultaneous salt rejection and VOCs removal during solar-driven seawater desalination](#)

M Ye, N Tao, X Zhou, X Wang, W Jin, T Zhang... - Separation and ..., 2023 - Elsevier  
Salt accumulation and volatile organic compounds (VOCs) entering condensed freshwater are two main drawbacks in the new approach of solar-driven seawater desalination. In this ...  
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21. [HTML] [Thermal behavior and thermolysis mechanisms of graphene oxide-intercalated energetic complexes of carbohydrazide](#)

S Chen, SZ Wang, SL Yang, X Fu, [QL Yan](#) - ... Thermodynamics and Thermal ..., 2023 - Elsevier  
Graphene-based carbohydrazide coordination polymers are beneficial for improving solid propellants' energy level and safety, so the study of their thermal decomposition mechanism is ...  
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22. [A novel strategy by combining "magnified" matrix solid phase dispersion extraction with high-speed countercurrent chromatography for the rapid and efficient isolation ...](#)

Y Zou, Y Lv, X Peng, S Tong, C Chu - Sustainable Chemistry and Pharmacy, 2023 - Elsevier  
A rapid and efficient isolation strategy by combining matrix solid phase dispersion extraction (MSPD) with high-speed countercurrent chromatography (HSCCC) had been proposed in ...  
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23. [Printable and Flexible Humidity Sensor Based on Graphene -Oxide-Supported MoTe<sub>2</sub> Nanosheets for Multifunctional Applications](#)

L Ni, X Li, F Cai, Z Dong, Y Deng, T Jiang, Z Su... - Nanomaterials, 2023 - mdpi.com  
This study focuses on a novel humidity sensor composed of graphene-oxide

(GO)-supported

MoTe<sub>2</sub> nanosheets. Conductive Ag electrodes were formed on PET substrates by inkjet ...

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24. [Gas-Phase Synthesis of Perfluoroalkyl-Functionalized Graphene and Its Desensitization Effect on 1, 3, 5, 7-Tetranitro-1, 3, 5, 7-Tetraazacyclooctane](#)

T Lei, KJ Meng, N Yang, [QL Yan](#), X Fu... - ACS Applied Nano ..., 2023 - ACS Publications

Energetic materials, such as 1,3,5,7-tetranitro-1,3,5,7-tetraazacyclooctane (HMX), are known for their high energy output but low safety. The application of fluorine-containing materials ...

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25. [Speciation of trace amounts of Sb \(iii\) and Sb \(v\) in environmental water using inductively coupled plasma mass spectrometry after magnetic solid-phase extraction ...](#)

Q Wang, Y Nie, Z Wu, Y Yang - Analytical Methods, 2023 - pubs.rsc.org

We developed an approach of magnetic dispersive solid-phase extraction (MSPE) based on magnetic graphene nanocomposite rGO/Fe<sub>3</sub>O<sub>4</sub> for the determination of trace Sb(III) and Sb(IV) ...

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26. [Effect of regularly arranged reduced graphene oxide on the anti-corrosion performance of waterborne silicate zinc-rich coatings](#)

X Zhao, Y Qi, Z Zhang, M Li - Corrosion Engineering, Science and ..., 2023 - Taylor & Francis

The effect of a barrier layer composed of reduced graphene oxide (rGO) with edge adsorption

of K<sup>+</sup> (rGOK<sup>+</sup>) on anticorrosive performance was investigated. Scanning electron ...

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27. [Influence of modified graphene oxide on the antifouling performance of waterborne polyurethane coatings containing amphiphilic honeycomb surface](#)

X Zhao, Y Qi, Z Zhang - Journal of Coatings Technology and Research, 2023 - Springer

The coating with amphiphilic honeycomb surface containing modified graphene oxide was constructed by a three-step method for improved antifouling properties. Graphene oxide is ...

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28. [Effect of CNT film interleaves on the flexural properties and strength after impact of CFRP composites](#)

J Li, Z Zhang, J Fu, Z Liang, D Hui... - Nanotechnology ..., 2023 - degruyter.com

Carbon nanotubes (CNTs), with their high strength, modulus, and large aspect ratio, have emerged as a frontrunner in nano-reinforcements. In this study, CNT films (CNTFs) were ...

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[\[HTML\] hep.com.cn](#)

29. [Resource utilization of typical biomass wastes as biochars in removing plasticizer diethyl phthalate from water: characterization and adsorption mechanisms](#)

M Shi, X Wang, M Shao, L Lu, [H Ullah](#)... - ... of Environmental Science ...; 2023 - Springer  
Plastic pollution as a global environmental issue has become a research hotspot, among which the removal of inherent plasticizer (eg, phthalic acid esters, PAEs) received increasing ...

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30. [Stretchable hybrid electronic network-based e-skin for proximity and multifunctional tactile sensing](#)

X Wen, Z Zhao, Y Chen, X Shan, X Zhao, X Gao... - 2023 - researchsquare.com

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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31. [Matrix solid-phase dispersion combined with micro-fractionation bioactivity evaluation screening polymethoxylated flavones from \*Citrus\* peels](#)

L Fang, M Wen, Y Zou, C Chu, C Wu... - Journal of Separation ...; 2023 - Wiley Online Library  
Polymethoxyflavones were a unique class of natural and safe flavonoids containing two or more methoxy groups, which were also the most abundant edible part in Citrus peel. The ...

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32. [Quantitative Label-Free SERS Detection of Trace Fentanyl in Biofluids with a Freestanding Hydrophobic Plasmonic Paper Biosensor](#)

X Su, X Liu, [Y Xie](#), [M Chen](#), H Zhong, [M Li](#) - Analytical Chemistry, 2023 - ACS Publications

The prevalence of fentanyl abuse raises global public health concerns with an unprecedented

surge in overdose deaths. Rapid identification and quantification of fentanyl in biofluids is ...

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33. [Enhancing the electronic and ionic transport of flow-electrode capacitive deionization by hollow mesoporous carbon nanospheres](#)

Y Li, T Yong, J Qi, J Wu, R Lin, Z Chen, [J Li](#) - Desalination, 2023 - Elsevier

... AC powders and carbon black (CB) were purchased from JCNANO Co. Ltd. Non-selective cation and anion exchange membranes were purchased from ASTOM Crop. ...

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[\[PDF\] acs.org](#)

34. [Thermoelectric Characteristics of Self-Supporting WSe<sub>2</sub>-Nanosheet/PEDOT-Nanowire Composite Films](#)

S Guo, Q Meng, J Qin, Y Du, L Wang... - ... Applied Materials & ..., 2023 - ACS Publications  
Conducting polymer poly(3,4-ethylenedioxythiophene) nanowires (PEDOT NWs) were synthesized by a modified self-assembled micellar soft-template method, followed by fabrication ...

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35. [Effects of porous carbon materials on heat storage performance of CaCl<sub>2</sub> hydrate for low-grade thermal energy](#)

N Gao, L Deng, J Li, T Zeng, H Huang, [N Kobayashi](#)... - RSC ..., 2023 - pubs.rsc.org

Thermochemical energy storage (TES) is a promising technology to overcome supply-demand

mismatch in the recycling of low-grade industrial waste heat. A novel sorbent is ...

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36. [Nano-plasmonic graphene-quantum dots integrated photoelectronic biosensor](#)

[J Sun](#), L Zhou, H Mao, J Zhao... - 2023 Opto-Electronics ..., 2023 - ieeexplore.ieee.org

We report a nano-plasmonic biosensor with integrated optoelectronic architecture developed

on a miniaturized chip. With simple means, the nano-plasmonic sensor demonstrated the ...

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37. [Toxicity of carbon nanomaterials in Caenorhabditis elegans: Effects of biocorona formation on single and co-exposure testing](#)

F Côa - 2023 - teses.usp.br

This thesis aimed to evaluate the effects of biocorona formation on carbon nanomaterials (ie, graphene oxide - GO and multiwalled carbon nanotubes - MWCNT) toxicity in the ...

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38. [Efficient Degradation of Chlortetracycline by Graphene Supported Cobalt Oxide Activated Peroxydisulfate: Performances and Mechanisms](#)

W Li, B Yao, Y Zheng, G Zhang, D Zhi, Y Zhou - Processes, 2023 - mdpi.com

Cobalt oxide has good catalytic activity for peroxydisulfate (PDS) activation but poor stability and is vulnerable to inactivation because of agglomeration. In this work, the ...

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39. [Upcycling of carbon fiber-reinforced polymer composites](#)

L Zhang, W Liu, H Jiang, X Zhang, Y Shang... - ... Science and Technology, 2023 - Elsevier

An upcycling method of carbon fiber-reinforced polymer (CFRP) was proposed to solve environmental pollution caused by waste CFRP. Novel graphene supported on alumina fiber ...

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1. [HTML] [Reprocessable thermal interface materials with optimized phonon transport based on Diels-Alder click chemistry](#)

[Y Liu](#), [Z Hu](#), [M Lyu](#), [H Wu](#), [B Liu](#), [S Sun](#), [X Lin](#)... - Composites Part A ..., 2023 - Elsevier  
... Graphite flakes (GFs, >98%) of which the thickness is lower than 15 nm and the diameter size is 3~6 μm supplied from NanJing Ji Cang Nano Technology Co. Ltd. Other Reagents ...  
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2. [HTML] [Investigation of mechanical properties of phosphorus building gypsum modified by multi-walled carbon nanotubes](#)

[Y Ling](#), [X Zhu](#), [L Song](#), [X Yang](#) - Alexandria Engineering Journal, 2023 - Elsevier  
... Carbon nanotube dispersion was procured from Ji Cang Nanotechnology. Other apparatus incorporated in the experiment include ball milling jars, mixing rods, mixing bowls, rapid ...  
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3. [Effect of stainless-steel substrate grain boundaries on surface graphene morphology and nano-friction behavior](#)

[W Guo](#), [Q Bai](#), [Y Dou](#), [T Wang](#), [H Wang](#) - Applied Surface Science, 2023 - Elsevier  
... The graphene samples and the transfer process were provided by Nanjing Ji Cang Nano Tech. The graphene samples on the stainless-steel surface were examined by confocal ...  
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4. [Preparation of high concentration coal water slurry with good fluidity based on preferentially modified ultrafine particle under three-peak grading](#)

[D Yao](#), [H Zhao](#), [Z Chen](#), [H Liu](#) - International Journal of Coal ..., 2023 - Taylor & Francis  
... Refining & Chemical Co., Ltd.), nanometer calcium carbonate (nano CaCO<sub>3</sub>, Shanghai Macklin Biochemical Co., Ltd.) and carbon nanospheres (nano Carbon, Nanjing Ji Cang Nano ...  
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5. [Graphdiyne and Nitrogen-Doped Graphdiyne Nanotubes as Highly Efficient Electrocatalysts for Oxygen Reduction Reaction](#)

[T Liu](#), [X Hao](#), [J Liu](#), [P Zhang](#), [J Chang](#)... - International Journal of ..., 2023 - mdpi.com  
Electrocatalysts with high efficiency and low cost are always urgently needed for oxygen reduction reaction (ORR). As a new carbon allotrope, graphdiyne (GDY) has received much ...  
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6. [Dry Reforming of Methane over Ni-Supported SBA-15 Prepared with Physical Mixing Method by Complexing with Citric Acid](#)

[HP Ren](#), [SP Tian](#), [SY Ding](#), [Q Ma](#), [WQ Song](#), [YZ Zhao](#)... - Catalysts, 2023 - mdpi.com  
Ni-supported SBA-15 catalysts were prepared by physical mixing of Ni(NO<sub>3</sub>)<sub>2</sub>·6H<sub>2</sub>O and

SBA-15 (Ni/SBA-15-M) and in the presence of citric acid as the complexing agent (Ni/SBA-...

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7. [Fast Kinetic Carbon Anode Inherited and Developed from Architectural Designed Porous Aromatic Framework for Flexible Lithium Ion Micro Capacitors](#)

X Li, M Sun, C Xu, X Zhang, [G Wang](#)... - Advanced Functional ..., 2023 - Wiley Online Library  
Lithium ion micro capacitors (LIMCs) demonstrate competitive advantages of simultaneously high energy/power densities and long cycle life over many other micro supercapacitors and ...

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8. [A molecular sieve-containing protective separator to suppress the shuttle effect of redox mediators in lithium-oxygen batteries](#)

X Wu, H Wu, [S Guan](#), Y Liang, [K Wen](#), H Wang... - Nano Research, 2023 - Springer  
Lithium-oxygen (Li-O<sub>2</sub>) batteries have a great potential in energy storage and conversion due to their ultra-high theoretical specific energy, but their applications are hindered by ...

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9. [Nanozyme-based biofuel cell ingeniously coupled with luminol chemiluminescence system through in situ co-reactant generation for dual-signal biosensing](#)

C Wang, Y Wang, J Liu, [F Li](#), P Gai - Analytical Chemistry, 2023 - ACS Publications  
Classical luminol-based chemiluminescence (CL) is the process of emitting light enhanced by the addition of coreactant hydrogen peroxide (H<sub>2</sub>O<sub>2</sub>). To address the instability issue of ...

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10. [Preparation and evaluation of molecularly imprinted polymers based on magnetic graphene oxide for selective extraction and determination of quercetin in red wine](#)

Y Cheng, H Liu, L Kuang, Z Yan, H Li, G Xu - Microchemical Journal, 2023 - Elsevier  
In this work, a high selectivity molecularly imprinted polymer (Fe<sub>3</sub>O<sub>4</sub>/GO@MIP) for quercetin was successfully synthesized by combination of surface molecular imprinting technology ...

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11. [A Flexible and Wearable Chemiresistive Biosensor Fabricated by Laser Inducing for Real-Time Glucose Analysis of Sweat](#)

HX Sun, S Song, [G Zhao](#), X Wang... - Advanced Materials ..., 2023 - Wiley Online Library  
In this study, a flexible and wearable chemiresistive biosensor (FWCB) is developed for the real-time analysis of glucose in sweat on the human skin surface based on a novel detection ...

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12. [A Flexible and Wearable Chemiresistive Biosensor Fabricated by Laser Inducing for Real-Time Glucose Analysis of Sweat](#)

HX Sun, S Song, [G Zhao](#), X Wang... - Advanced Materials ..., 2023 - Wiley Online Library

In this study, a flexible and wearable chemiresistive biosensor (FWCB) is developed for the real-time analysis of glucose in sweat on the human skin surface based on a novel detection ...

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13. [pH-responsive magnetic graphene oxide composite as an adsorbent with high affinity for rapid capture of nucleosides](#)

H Yin, Y Yuan, L Xin, Q Hang, L Zhao, F Qin, Z Xiong - Microchimica Acta, 2023 - Springer

A novel pH-responsive magnetic graphene oxide composite (MGO@PEI-BA) is proposed for the first time as an adsorbent for the rapid capture and detection of nucleosides (cytidine, ...

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14. [Temporal Deformation Anomaly Detection in Recursive Multi-Temporal InSAR: Quality Control and Processing Strategy](#)

F Hu, [F Xu](#) - ... 2023-2023 IEEE International Geoscience and ..., 2023 - ieeexplore.ieee.org

Current synthetic aperture radar (SAR) missions with the satellite constellation can effectively reduce repeat time, achieving a near real-time deformation monitoring. In the practical ...

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