

Rui Liu

List of Publications by Year in descending order

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73
papers

3,912
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117625

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times ranked

5452
citing authors

#	ARTICLE	IF	CITATIONS
1	Pivotal roles of N-doped carbon shell and hollow structure in nanoreactor with spatial confined Co species in peroxymonosulfate activation: Obstructing metal leaching and enhancing catalytic stability. <i>Journal of Hazardous Materials</i> , 2022, 427, 128204.	12.4	74
2	Efficient activation of ferrate(VI) by colloid manganese dioxide: Comprehensive elucidation of the surface-promoted mechanism. <i>Water Research</i> , 2022, 215, 118243.	11.3	46
3	Metal-free black-red phosphorus as an efficient heterogeneous reductant to boost Fe ³⁺ /Fe ²⁺ cycle for peroxymonosulfate activation. <i>Water Research</i> , 2021, 188, 116529.	11.3	114
4	Black phosphorus hybridizing produces electron-deficient active sites on palladium nanoparticles for catalysis. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119775.	20.2	27
5	Identification of polystyrene nanoplastics using surface enhanced Raman spectroscopy. <i>Talanta</i> , 2021, 221, 121552.	5.5	97
6	Reduction of Ionic Silver by Sulfur Dioxide as a Source of Silver Nanoparticles in the Environment. <i>Environmental Science & Technology</i> , 2021, 55, 5569-5578.	10.0	17
7	HCl-Tolerant H ₂ PO ₄ /RuO ₄ â€“CeO ₂ Catalysts for Extremely Efficient Catalytic Elimination of Chlorinated VOCs. <i>Environmental Science & Technology</i> , 2021, 55, 4007-4016.	10.0	107
8	The Binding Strength of Reactive H [*] : A Neglected Key Factor in Rh-Catalyzed Environmental Hydrodefluorination Reaction. <i>ACS ES&T Engineering</i> , 2021, 1, 1036-1045.	7.6	6
9	Chirality of gold nanocluster affects its interaction with coagulation factor XII. <i>NanoImpact</i> , 2021, 22, 100321.	4.5	8
10	Stabilizing Black Phosphorus via Covalent Functionalization of Solvent Formamide. <i>Advanced Materials Interfaces</i> , 2021, 8, 2002247.	3.7	6
11	In Situ Growth Large Area Silver Nanostructure on Metal Phenolic Network Coated NAAO Film and Its SERS Sensing Application for Monofluoroacetic Acid. <i>ACS Sensors</i> , 2021, 6, 2129-2135.	7.8	3
12	Simultaneously preconcentration of malachite green and construction of SERS substrate in water based on cloud point extraction. <i>Microchemical Journal</i> , 2021, 169, 106572.	4.5	5
13	Developmental Toxicity of Few-Layered Black Phosphorus toward Zebrafish. <i>Environmental Science & Technology</i> , 2021, 55, 1134-1144.	10.0	18
14	Potential Oscillated Electrochemical Metal Recovery System with Improved Conversion Kinetics and High Levelized Quality. <i>Environmental Science & Technology</i> , 2021, 55, 15380-15389.	10.0	7
15	Construction of a Degradation-Free DNA Conjugated Nanoprobe and Its Application in Rapid Field Screening for Sulfur Mustard. <i>Analytical Chemistry</i> , 2021, 93, 16735-16740.	6.5	2
16	Graphene Oxide Promotes Cancer Metastasis through Associating with Plasma Membrane To Promote TGF-Î² Signaling-Dependent Epithelialâ€“Mesenchymal Transition. <i>ACS Nano</i> , 2020, 14, 818-827.	14.6	43
17	Graphene Oxide Causes Disordered Zonation Due to Differential Intralobular Localization in the Liver. <i>ACS Nano</i> , 2020, 14, 877-890.	14.6	21
18	Ligandâ€“Sharingâ€“Mediated Synthesis of Intermetallic FeM Clusters Embedded in Ultrathin Î³-Fe ₂ O ₃ Nanosheets. <i>Advanced Functional Materials</i> , 2020, 30, 1906995.	14.9	6

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19	Mechanistic insight into the electrocatalytic hydrodechlorination reaction on palladium by a facet effect study. <i>Journal of Catalysis</i> , 2020, 391, 414-423.	6.2	42
20	<i>In Situ</i> Surface-Enhanced Raman Spectroscopic Evidence on the Origin of Selectivity in CO ₂ Electrocatalytic Reduction. <i>ACS Nano</i> , 2020, 14, 11363-11372.	14.6	177
21	Synthesis of highly-branched Au@AgPd core/shell nanoflowers for in situ SERS monitoring of catalytic reactions. <i>Chinese Chemical Letters</i> , 2020, 31, 2437-2441.	9.0	16
22	Blocking the defect sites on ultrathin Pt nanowires with Rh atoms to optimize the reaction path toward alcohol fuel oxidation. <i>Chinese Chemical Letters</i> , 2020, 31, 1782-1786.	9.0	18
23	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. <i>Journal of Hazardous Materials</i> , 2020, 392, 122258.	12.4	85
24	Effects of ionic strength on physicochemical properties and toxicity of silver nanoparticles. <i>Science of the Total Environment</i> , 2019, 647, 1088-1096.	8.0	33
25	Fabrication of nanoporous silver film by dealloying Ag/±-Fe ₂ O ₃ nanocomposite for surface-enhanced Raman spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2019, 286, 94-100.	7.8	11
26	Magnetic metal-organic frameworks nanocomposites for negligible-depletion solid-phase extraction of freely dissolved polyaromatic hydrocarbons. <i>Environmental Pollution</i> , 2019, 252, 1574-1581.	7.5	24
27	Silver Nanoparticles Compromise Female Embryonic Stem Cell Differentiation through Disturbing X Chromosome Inactivation. <i>ACS Nano</i> , 2019, 13, 2050-2061.	14.6	10
28	Facile fabrication of silver nanoparticle decorated ±-Fe ₂ O ₃ nanoflakes as ultrasensitive surface-enhanced Raman spectroscopy substrates. <i>Analytica Chimica Acta</i> , 2018, 1006, 74-82.	5.4	33
29	Au@Pd Bimetallic Nanocatalyst for Carbon-Halogen Bond Cleavage: An Old Story with New Insight into How the Activity of Pd is Influenced by Au. <i>Environmental Science & Technology</i> , 2018, 52, 4244-4255.	10.0	53
30	Self-assembly of supramolecular nanotubes/microtubes from 3,5-dimethyl-4-iodopyrazole for plasmonic nanoparticle organization. <i>Nanoscale</i> , 2018, 10, 20804-20812.	5.6	6
31	Natural Dissociation Ratio of Carboxyl Group Controlled Highly Dispersed Silver Nanoparticles on PSA Microspheres and Their Catalytic Performance. <i>Nanoscale Research Letters</i> , 2018, 13, 406.	5.7	5
32	Defect Sites in Ultrathin Pd Nanowires Facilitate the Highly Efficient Electrochemical Hydrodechlorination of Pollutants by H* _{ads} . <i>Environmental Science & Technology</i> , 2018, 52, 9992-10002.	10.0	137
33	Reduction of graphene oxide alters its cyto-compatibility towards primary and immortalized macrophages. <i>Nanoscale</i> , 2018, 10, 14637-14650.	5.6	23
34	Atomic-Level-Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. <i>Advanced Materials</i> , 2017, 29, 1604571.	21.0	52
35	Use of Polycrystalline Ice for Assembly of Large Area Au Nanoparticle Superstructures as SERS Substrates. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 513-520.	8.0	21
36	Self-assembly of plasmonic nanostructures into superlattices for surface-enhanced Raman scattering applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 97, 188-200.	11.4	18

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37	TiO ₂ particles in seafood and surimi products: Attention should be paid to their exposure and uptake through foods. <i>Chemosphere</i> , 2017, 188, 541-547.	8.2	26
38	Polyvinylidene Fluoride Micropore Membranes as Solid-Phase Extraction Disk for Preconcentration of Nanoparticulate Silver in Environmental Waters. <i>Environmental Science & Technology</i> , 2017, 51, 13816-13824.	10.0	23
39	The fabrication of Cu nanowire/graphene/Al doped ZnO transparent conductive film on PET substrate with high flexibility and air stability. <i>Materials Letters</i> , 2017, 207, 62-65.	2.6	19
40	Highly active TiO ₂ /g-C ₃ N ₄ /G photocatalyst with extended spectral response towards selective reduction of nitrobenzene. <i>Applied Catalysis B: Environmental</i> , 2017, 203, 1-8.	20.2	185
41	Tracking the Fate of Surface Plasmon Resonance-Generated Hot Electrons by In Situ SERS Surveying of Catalyzed Reaction. <i>Small</i> , 2016, 12, 6378-6387.	10.0	16
42	Effect of NO ₂ substitution and solvent on UV-visible spectra, redox potentials and electron transfer mechanisms of copper ^{II} -nitrotriarylcorroles. Proposed electrogeneration of a Cu(I) oxidation state. <i>Journal of Porphyrins and Phthalocyanines</i> , 2016, 20, 753-765.	0.8	8
43	Low temperature synthesized ultrathin ³ -Fe ₂ O ₃ nanosheets show similar adsorption behaviour for As(III) and As(V). <i>Journal of Materials Chemistry A</i> , 2016, 4, 7606-7614.	10.3	45
44	Hydrothermal synthesis of N-doped TiO ₂ nanowires and N-doped graphene heterostructures with enhanced photocatalytic properties. <i>Journal of Alloys and Compounds</i> , 2016, 656, 24-32.	5.5	150
45	Fabrication of highly-specific SERS substrates by co-precipitation of functional nanomaterials during the self-sedimentation of silver nanowires into a nanoporous film. <i>Chemical Communications</i> , 2015, 51, 1309-1312.	4.1	26
46	Controlled Assembly of Gold Nanostructures on a Solid Substrate via Imidazole Directed Hydrogen Bonding for High Performance Surface Enhance Raman Scattering Sensing of Hypochlorous Acid. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 16730-16737.	8.0	19
47	Nanofluid of zinc oxide nanoparticles in ionic liquid for single drop liquid microextraction of fungicides in environmental waters prior to high performance liquid chromatographic analysis. <i>Journal of Chromatography A</i> , 2015, 1395, 7-15.	3.7	69
48	Exposure Medium: Key in Identifying Free Ag ⁺ as the Exclusive Species of Silver Nanoparticles with Acute Toxicity to <i>Daphnia magna</i> . <i>Scientific Reports</i> , 2015, 5, 9674.	3.3	49
49	Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals. <i>ACS Nano</i> , 2015, 9, 10498-10515.	14.6	347
50	Speciation Analysis of Labile and Total Silver(I) in Nanosilver Dispersions and Environmental Waters by Hollow Fiber Supported Liquid Membrane Extraction. <i>Environmental Science & Technology</i> , 2015, 49, 14213-14220.	10.0	11
51	Synthesis of TiO ₂ decorated Co ₃ O ₄ acicular nanowire arrays and their application as an ethanol sensor. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2794-2801.	10.3	73
52	Rapid Chromatographic Separation of Dissoluble Ag(I) and Silver-Containing Nanoparticles of ≤ 100 Nanometer in Antibacterial Products and Environmental Waters. <i>Environmental Science & Technology</i> , 2014, 48, 14516-14524.	10.0	105
53	Cobalt triarylcorroles containing one, two or three nitro groups. Effect of NO ₂ substitution on electrochemical properties and catalytic activity for reduction of molecular oxygen in acid media. <i>Journal of Inorganic Biochemistry</i> , 2014, 136, 130-139.	3.5	64
54	Incorporation of the fluoride induced SiO bond cleavage and functionalized gold nanoparticle aggregation into one colorimetric probe for highly specific and sensitive detection of fluoride. <i>Analytica Chimica Acta</i> , 2014, 820, 139-145.	5.4	30

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55	Graphene sensing an inhomogeneous strain due to the surface relief in FeNiCoTi shape memory alloy. <i>Journal of Raman Spectroscopy</i> , 2014, 45, 1-6.	2.5	4
56	Submonolayer-Pt-Coated Ultrathin Au Nanowires and Their Self-Organized Nanoporous Film: SERS and Catalysis Active Substrates for Operando SERS Monitoring of Catalytic Reactions. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 969-975.	4.6	59
57	N-doped nanoporous graphene decorated three-dimensional CuO nanowire network and its application to photocatalytic degradation of dyes. <i>RSC Advances</i> , 2014, 4, 47455-47460.	3.6	29
58	Thin Layer Chromatography Coupled with Surface-Enhanced Raman Scattering as a Facile Method for On-Site Quantitative Monitoring of Chemical Reactions. <i>Analytical Chemistry</i> , 2014, 86, 7286-7292.	6.5	57
59	Nanosilver Incurs an Adaptive Shunt of Energy Metabolism Mode to Glycolysis in Tumor and Nontumor Cells. <i>ACS Nano</i> , 2014, 8, 5813-5825.	14.6	92
60	The ex vivo and in vivo biological performances of graphene oxide and the impact of surfactant on graphene oxide's biocompatibility. <i>Journal of Environmental Sciences</i> , 2013, 25, 873-881.	6.1	45
61	<i>In Situ</i> Detection of Acid Orange II in Food Based on Shell-Isolated Au@SiO ₂ Nanoparticle-Enhanced Raman Spectroscopy. <i>Acta Chimica Sinica</i> , 2012, 70, 1686.	1.4	13
62	Capping agent replacement induced self-organization of ultrathin nanowires: a new and general approach for fabricating noble metal nanoporous films with small ligament sizes. <i>Chemical Communications</i> , 2011, 47, 1613-1615.	4.1	12
63	Fabrication of a Au Nanoporous Film by Self-Organization of Networked Ultrathin Nanowires and Its Application as a Surface-Enhanced Raman Scattering Substrate for Single-Molecule Detection. <i>Analytical Chemistry</i> , 2011, 83, 9131-9137.	6.5	52
64	Speciation Analysis of Silver Nanoparticles and Silver Ions in Antibacterial Products and Environmental Waters via Cloud Point Extraction-Based Separation. <i>Analytical Chemistry</i> , 2011, 83, 6875-6882.	6.5	198
65	Cysteine Modified Small Ligament Au Nanoporous Film: An Easy Fabricating and Highly Efficient Surface-Assisted Laser Desorption/Ionization Substrate. <i>Analytical Chemistry</i> , 2011, 83, 3668-3674.	6.5	22
66	Applications of Raman-based techniques to on-site and in-vivo analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2011, 30, 1462-1476.	11.4	41
67	Use of Triton X-114 as a weak capping agent for one-pot aqueous phase synthesis of ultrathin noble metal nanowires and a primary study of their electrocatalytic activity. <i>Chemical Communications</i> , 2010, 46, 7010.	4.1	49
68	Ionic liquids in sample preparation. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 871-883.	3.7	163
69	Cloud Point Extraction as an Advantageous Preconcentration Approach for Analysis of Trace Silver Nanoparticles in Environmental Waters. <i>Analytical Chemistry</i> , 2009, 81, 6496-6502.	6.5	193
70	Visual and colorimetric detection of Hg ²⁺ by cloud point extraction with functionalized gold nanoparticles as a probe. <i>Chemical Communications</i> , 2009, , 7030.	4.1	71
71	Triton X-114 based cloud point extraction: a thermoreversible approach for separation/concentration and dispersion of nanomaterials in the aqueous phase. <i>Chemical Communications</i> , 2009, , 1514.	4.1	112
72	Ultrasensitive determination of cadmium in seawater by hollow fiber supported liquid membrane extraction coupled with graphite furnace atomic absorption spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2007, 62, 499-503.	2.9	56

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73	Existence of a Heterogeneous Pathway in Palladium-Catalyzed Carbon-Carbon Coupling Reaction: Evidence from Ag@Pd ₃ Cu Intermetallic Nanoplates. <i>CCS Chemistry</i> , 0, , 751-762.	7.8	8