

Rui Liu

List of Publications by Year in descending order

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73
papers

3,912
citations

117625

34
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123424

61
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74
all docs

74
docs citations

74
times ranked

5452
citing authors

#	ARTICLE	IF	CITATIONS
1	Crucial Role of Lateral Size for Graphene Oxide in Activating Macrophages and Stimulating Pro-inflammatory Responses in Cells and Animals. ACS Nano, 2015, 9, 10498-10515.	14.6	347
2	Speciation Analysis of Silver Nanoparticles and Silver Ions in Antibacterial Products and Environmental Waters via Cloud Point Extraction-Based Separation. Analytical Chemistry, 2011, 83, 6875-6882.	6.5	198
3	Cloud Point Extraction as an Advantageous Preconcentration Approach for Analysis of Trace Silver Nanoparticles in Environmental Waters. Analytical Chemistry, 2009, 81, 6496-6502.	6.5	193
4	Highly active TiO ₂ /g-C ₃ N ₄ /G photocatalyst with extended spectral response towards selective reduction of nitrobenzene. Applied Catalysis B: Environmental, 2017, 203, 1-8.	20.2	185
5	<i>In Situ</i> Surface-Enhanced Raman Spectroscopic Evidence on the Origin of Selectivity in CO ₂ Electrocatalytic Reduction. ACS Nano, 2020, 14, 11363-11372.	14.6	177
6	Ionic liquids in sample preparation. Analytical and Bioanalytical Chemistry, 2009, 393, 871-883.	3.7	163
7	Hydrothermal synthesis of N-doped TiO ₂ nanowires and N-doped graphene heterostructures with enhanced photocatalytic properties. Journal of Alloys and Compounds, 2016, 656, 24-32.	5.5	150
8	Defect Sites in Ultrathin Pd Nanowires Facilitate the Highly Efficient Electrochemical Hydrodechlorination of Pollutants by H [*] . Environmental Science & Technology, 2018, 52, 9992-10002.	10.0	137
9	Metal-free black-red phosphorus as an efficient heterogeneous reductant to boost Fe ³⁺ /Fe ²⁺ cycle for peroxymonosulfate activation. Water Research, 2021, 188, 116529.	11.3	114
10	Triton X-114 based cloud point extraction: a thermoreversible approach for separation/concentration and dispersion of nanomaterials in the aqueous phase. Chemical Communications, 2009, , 1514.	4.1	112
11	HCl-Tolerant H ₂ PO ₄ /RuO ₄ -CeO ₂ Catalysts for Extremely Efficient Catalytic Elimination of Chlorinated VOCs. Environmental Science & Technology, 2021, 55, 4007-4016.	10.0	107
12	Rapid Chromatographic Separation of Dissoluble Ag(I) and Silver-Containing Nanoparticles of 1-100 Nanometer in Antibacterial Products and Environmental Waters. Environmental Science & Technology, 2014, 48, 14516-14524.	10.0	105
13	Identification of polystyrene nanoplastics using surface enhanced Raman spectroscopy. Talanta, 2021, 221, 121552.	5.5	97
14	Nanosilver Incurs an Adaptive Shunt of Energy Metabolism Mode to Glycolysis in Tumor and Nontumor Cells. ACS Nano, 2014, 8, 5813-5825.	14.6	92
15	Probing toluene catalytic removal mechanism over supported Pt nano- and single-atom-catalyst. Journal of Hazardous Materials, 2020, 392, 122258.	12.4	85
16	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. Journal of Hazardous Materials, 2022, 427, 128204.	12.4	74
17	Synthesis of TiO ₂ decorated Co ₃ O ₄ acicular nanowire arrays and their application as an ethanol sensor. Journal of Materials Chemistry A, 2015, 3, 2794-2801.	10.3	73
18	Visual and colorimetric detection of Hg ²⁺ by cloud point extraction with functionalized gold nanoparticles as a probe. Chemical Communications, 2009, , 7030.	4.1	71

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	Atomically Designed Catalytically Active Palladium Atoms on Ultrathin Gold Nanowires. <i>Advanced Materials</i> , 2017, 29, 1604571.	21.0	52
27	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
28	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
29	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
30	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
31	Low temperature synthesized ultrathin 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
32	Graphene Oxide Promotes Cancer Metastasis through Associating with Plasma Membrane To Promote TGF- β 2 Signaling-Dependent Epithelial-Mesenchymal Transition. <i>ACS Nano</i> , 2020, 14, 818-827.	14.6	43
33	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
34	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
35	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
36	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

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37	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
38	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
39	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
40	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
41	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
42	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
43	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
44	Reduction of graphene oxide alters its cyto-compatibility towards primary and immortalized macrophages. <i>Nanoscale</i> , 2018, 10, 14637-14650.	5.6	23
45	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
46	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
47	Graphene Oxide Causes Disordered Zonation Due to Differential Intralobular Localization in the Liver. <i>ACS Nano</i> , 2020, 14, 877-890.	14.6	21
48	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
49	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
50	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
51	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
52	Developmental Toxicity of Few-Layered Black Phosphorus toward Zebrafish. <i>Environmental Science & Technology</i> , 2021, 55, 1134-1144.	10.0	18
53	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
54	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

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55	Synthesis of highly-branched Au@AgPd core/shell nanoflowers for in situ SERS monitoring of catalytic reactions. Chinese Chemical Letters, 2020, 31, 2437-2441.	9.0	16
56	In Situ Detection of Acid Orange II in Food Based on Shell-Isolated Au@SiO ₂ Nanoparticle-Enhanced Raman Spectroscopy. Acta Chimica Sinica, 2012, 70, 1686.	1.4	13
57	Capping agent replacement induced self-organization of ultrathin nanowires: a new and general approach for fabricating noble metal nanoporous films with small ligament sizes. Chemical Communications, 2011, 47, 1613-1615.	4.1	12
58	Speciation Analysis of Labile and Total Silver(I) in Nanosilver Dispersions and Environmental Waters by Hollow Fiber Supported Liquid Membrane Extraction. Environmental Science & Technology, 2015, 49, 14213-14220.	10.0	11
59	Fabrication of nanoporous silver film by dealloying Ag _{1-x} Fe ₂ O ₃ nanocomposite for surface-enhanced Raman spectroscopy. Sensors and Actuators B: Chemical, 2019, 286, 94-100.	7.8	11
60	Silver Nanoparticles Compromise Female Embryonic Stem Cell Differentiation through Disturbing X Chromosome Inactivation. ACS Nano, 2019, 13, 2050-2061.	14.6	10
61	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. Journal of Porphyrins and Phthalocyanines, 2016, 20, 753-765.	0.8	8
62	Existence of a Heterogeneous Pathway in Palladium-Catalyzed Carbon-Carbon Coupling Reaction: Evidence from Ag@Pd ₃ Cu Intermetallic Nanoplates. CCS Chemistry, 0, , 751-762.	7.8	8
63	Chirality of gold nanocluster affects its interaction with coagulation factor XII. NanoImpact, 2021, 22, 100321.	4.5	8
64	Potential Oscillated Electrochemical Metal Recovery System with Improved Conversion Kinetics and High Levelized Quality. Environmental Science & Technology, 2021, 55, 15380-15389.	10.0	7
65	Self-assembly of supramolecular nanotubes/microtubes from 3,5-dimethyl-4-iodopyrazole for plasmonic nanoparticle organization. Nanoscale, 2018, 10, 20804-20812.	5.6	6
66	Ligand-Sharing-Mediated Synthesis of Intermetallic FeM Clusters Embedded in Ultrathin Fe ₂ O ₃ Nanosheets. Advanced Functional Materials, 2020, 30, 1906995.	14.9	6
67	The Binding Strength of Reactive H [*] : A Neglected Key Factor in Rh-Catalyzed Environmental Hydrodefluorination Reaction. ACS ES&T Engineering, 2021, 1, 1036-1045.	7.6	6
68	Stabilizing Black Phosphorus via Covalent Functionalization of Solvent Formamide. Advanced Materials Interfaces, 2021, 8, 2002247.	3.7	6
69	Natural Dissociation Ratio of Carboxyl Group Controlled Highly Dispersed Silver Nanoparticles on PSA Microspheres and Their Catalytic Performance. Nanoscale Research Letters, 2018, 13, 406.	5.7	5
70	Simultaneously preconcentration of malachite green and construction of SERS substrate in water based on cloud point extraction. Microchemical Journal, 2021, 169, 106572.	4.5	5
71	Graphene sensing an inhomogeneous strain due to the surface relief in FeNiCoTi shape memory alloy. Journal of Raman Spectroscopy, 2014, 45, 1-6.	2.5	4
72	In Situ Growth Large Area Silver Nanostructure on Metal Phenolic Network Coated NAAO Film and Its SERS Sensing Application for Monofluoroacetic Acid. ACS Sensors, 2021, 6, 2129-2135.	7.8	3

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73	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