Zhifang Chai

List of Publications by Year
in descending order

386 papers	29,827 citations	4370 86 h-index	5965 160 g-index
400 all docs	400 docs citations	400 times ranked	29509 citing authors

#	Article	IF	Citations
1	Metalâ€“organic framework-based materials: superior adsorbents for the capture of toxic and radioactive metal ions. Chemical Society Reviews, 2018, 47, 2322-2356.	18.7	1,438
2	Acute toxicity and biodistribution of different sized titanium dioxide particles in mice after oral administration. Toxicology Letters, 2007, 168, 176-185.	0.4	973
3	A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. Nature Materials, 2020, 19, 894-899.	13.3	870
4	Binding of blood proteins to carbon nanotubes reduces cytotoxicity. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16968-16973.	3.3	839
5	Acute toxicological effects of copper nanoparticles in vivo. Toxicology Letters, 2006, 163, 109-120.	0.4	825
6	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. Journal of the American Chemical Society, 2019, 141, 4730-4737.	6.6	811
7	Lightâ€Triggered Assembly of Gold Nanoparticles for Photothermal Therapy and Photoacoustic Imaging of Tumors In Vivo. Advanced Materials, 2017, 29, 1604894.	11.1	444
8	Recent Advances in Design and Fabrication of Upconversion Nanoparticles and Their Safe Theranostic Applications. Advanced Materials, 2013, 25, 3758-3779.	11.1	437
9	Differential Pd-nanocrystal facets demonstrate distinct antibacterial activity against Gram-positive and Gram-negative bacteria. Nature Communications, 2018, 9, 129.	5.8	414
10	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions. Chemical Engineering Journal, 2012, 210, 539-546.	6.6	402
11	Time-dependent translocation and potential impairment on central nervous system by intranasally instilled TiO2 nanoparticles. Toxicology, 2008, 254, 82-90.	2.0	386
12	Identifying the Recognition Site for Selective Trapping of ⁹⁹TcO₄^{â€“} in a Hydrolytically Stable and Radiation Resistant Cationic Metalâ€“Organic Framework. Journal of the American Chemical Society, 2017, 139, 14873-14876.	6.6	386
13	Effects of rare earth oxide nanoparticles on root elongation of plants. Chemosphere, 2010, 78, 273-279.	4.2	377
14	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. ACS Nano, 2017, 11, 3841-3850.	7.3	370
15	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. Nature Communications, 2017, 8, 15369.	5.8	366
16	Toxicity of zinc oxide nanoparticles to zebrafish embryo: a physicochemical study of toxicity mechanism. Journal of Nanoparticle Research, 2010, 12, 1645-1654.	0.8	348
17	Acute toxicological impact of nano- and submicro-scaled zinc oxide powder on healthy adult mice. Journal of Nanoparticle Research, 2008, 10, 263-276.	0.8	338
18	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metalâ€“Organic Framework Equipped with Abundant Lewis Basic Sites: A Combined Batch, X-ray Absorption Spectroscopy, and First Principles Simulation Investigation. Environmental Science & Technology, 2017, 51, 3911-3921.	4.6	331

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19	Elimination efficiency of different reagents for the memory effect of mercury using ICP-MS. Journal of Analytical Atomic Spectrometry, 2006, 21, 94-96.	1.6	322
20	Biotransformation of Ceria Nanoparticles in Cucumber Plants. ACS Nano, 2012, 6, 9943-9950.	7.3	319
21	Potential neurological lesion after nasal instillation of TiO2 nanoparticles in the anatase and rutile crystal phases. Toxicology Letters, 2008, 183, 72-80.	0.4	310
22	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. Nature Communications, 2017, 8, 1354.	5.8	296
23	Multihydroxylated [Gd@C82(OH)22]nNanoparticles:Â Antineoplastic Activity of High Efficiency and Low Toxicity. Nano Letters, 2005, 5, 2050-2057.	4.5	281
24	Interaction mechanism of uranium(VI) with three-dimensional graphene oxide-chitosan composite: Insights from batch experiments, IR, XPS, and EXAFS spectroscopy. Chemical Engineering Journal, 2017, 328, 1066-1074.	6.6	266
25	Ultrafast and Efficient Extraction of Uranium from Seawater Using an Amidoxime Appended Metalâ€“Organic Framework. ACS Applied Materials & Interfaces, 2017, 9, 32446-32451.	4.0	260
26	Nano-CeO₂ Exhibits Adverse Effects at Environmental Relevant Concentrations. Environmental Science & Technology, 2011, 45, 3725-3730.	4.6	257
27	BSAâ€Mediated Synthesis of Bismuth Sulfide Nanotheranostic Agents for Tumor Multimodal Imaging and Thermoradiotherapy. Advanced Functional Materials, 2016, 26, 5335-5344.	7.8	255
28	Efficient U(VI) Reduction and Sequestration by Ti₂CT_x MXene. Environmental Science & Technology, 2018, 52, 10748-10756.	4.6	253
29	Facet Energy versus Enzyme-like Activities: The Unexpected Protection of Palladium Nanocrystals against Oxidative Damage. ACS Nano, 2016, 10, 10436-10445.	7.3	247
30	Protein Corona Influences Cellular Uptake of Gold Nanoparticles by Phagocytic and Nonphagocytic Cells in a Size-Dependent Manner. ACS Applied Materials & Interfaces, 2015, 7, 20568-20575.	4.0	243
31	Broadâ€Spectrum Antibacterial Activity of Carbon Nanotubes to Human Gut Bacteria. Small, 2013, 9, 2735-2746.	5.2	236
32	Ultrasmall Biocompatible WO_{3â^’}_x Nanodots for Multiâ€Modality Imaging and Combined Therapy of Cancers. Advanced Materials, 2016, 28, 5072-5079.	11.1	227
33	Hydrolytically Stable Luminescent Cationic Metal Organic Framework for Highly Sensitive and Selective Sensing of Chromate Anions in Natural Water Systems. ACS Applied Materials & Interfaces, 2017, 9, 16448-16457.	4.0	223
34	Are carbon nanotubes safe?. Nature Nanotechnology, 2008, 3, 191-192.	15.6	215
35	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. ACS Applied Materials & Interfaces, 2016, 8, 16396-16403.	4.0	214
36	Highly Sensitive Detection of Ionizing Radiations by a Photoluminescent Uranyl Organic Framework. Angewandte Chemie - International Edition, 2017, 56, 7500-7504.	7.2	214

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37	Full Assessment of Fate and Physiological Behavior of Quantum Dots Utilizing Caenorhabditis elegans as a Model Organism. Nano Letters, 2011, 11, 3174-3183.	4.5	212
38	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. Chemical Communications, 2017, 53, 12084-12087.	2.2	198
39	Emergence of Uranium as a Distinct Metal Center for Building Intrinsic Xâ€ray Scintillators. Angewandte Chemie - International Edition, 2018, 57, 7883-7887.	7.2	198
40	Crossover between Anti- and Pro-oxidant Activities of Graphene Quantum Dots in the Absence or Presence of Light. ACS Nano, 2016, 10, 8690-8699.	7.3	188
41	Development of a mild mercaptoethanol extraction method for determination of mercury species in biological samples by HPLCâ€“ICP-MS. Talanta, 2007, 71, 2034-2039.	2.9	184
42	Halogenated Ti₃C₂ MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. ACS Nano, 2021, 15, 1077-1085.	7.3	183
43	Exceptional Perrhenate/Pertechnetate Uptake and Subsequent Immobilization by a Low-Dimensional Cationic Coordination Polymer: Overcoming the Hofmeister Bias Selectivity. Environmental Science and Technology Letters, 2017, 4, 316-322.	3.9	181
44	Mechanism unravelling for ultrafast and selective ⁹⁹TcO₄^{â^’} uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. Chemical Science, 2019, 10, 4293-4305.	3.7	181
45	Acquired Superoxideâ€Scavenging Ability of Ceria Nanoparticles. Angewandte Chemie - International Edition, 2015, 54, 1832-1835.	7.2	179
46	Phase Transition Induced Unusual Electrochemical Performance of V₂CT_X MXene for Aqueous Zinc Hybrid-Ion Battery. ACS Nano, 2020, 14, 541-551.	7.3	179
47	The effect of Gd@C82(OH)22 nanoparticles on the release of Th1/Th2 cytokines and induction of TNF-Î± mediated cellular immunity. Biomaterials, 2009, 30, 3934-3945.	5.7	177
48	Defect engineering in metalâ€“organic frameworks: a new strategy to develop applicable actinide sorbents. Chemical Communications, 2018, 54, 370-373.	2.2	167
49	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. Journal of Hazardous Materials, 2020, 396, 122731.	6.5	166
50	The Roles of Serum Selenium and Selenoproteins on Mercury Toxicity in Environmental and Occupational Exposure. Environmental Health Perspectives, 2006, 114, 297-301.	2.8	163
51	Effective Removal of Anionic Re(VII) by Surface-Modified Ti₂CT_x MXene Nanocomposites: Implications for Tc(VII) Sequestration. Environmental Science & Technology, 2019, 53, 3739-3747.	4.6	163
52	Comparative toxicity of nanoparticulate/bulk Yb₂O₃ and YbCl₃ to cucumber (Cucumis sativus). Environmental Science & Technology, 2012, 46, 1834-1841.	4.6	153
53	Antioxidative function and biodistribution of [Gd@C82(OH)22]n nanoparticles in tumor-bearing mice. Biochemical Pharmacology, 2006, 71, 872-881.	2.0	152
54	Phytotoxicity and biotransformation of La₂O₃nanoparticles in a terrestrial plant cucumber (Cucumis sativus). Nanotoxicology, 2011, 5, 743-753.	1.6	151

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55	Potent Angiogenesis Inhibition by the Particulate Form of Fullerene Derivatives. ACS Nano, 2010, 4, 2773-2783.	7.3	148
56	Near-infrared light remote-controlled intracellular anti-cancer drug delivery using thermo/pH sensitive nanovehicle. Acta Biomaterialia, 2015, 17, 201-209.	4.1	145
57	Neurotoxicological consequence of long-term exposure to lanthanum. Toxicology Letters, 2006, 165, 112-120.	0.4	140
58	Influences of Structural Properties on Stability of Fullerenols. Journal of Physical Chemistry B, 2004, 108, 11473-11479.	1.2	139
59	The effects of orally administered Ag, TiO 2 and SiO 2 nanoparticles on gut microbiota composition and colitis induction in mice. NanoImpact, 2017, 8, 80-88.	2.4	139
60	Lung deposition and extrapulmonary translocation of nano-ceria after intratracheal instillation. Nanotechnology, 2010, 21, 285103.	1.3	137
61	Covalent Organic Framework Functionalized with 8-Hydroxyquinoline as a Dual-Mode Fluorescent and Colorimetric pH Sensor. ACS Applied Materials & Interfaces, 2018, 10, 15364-15368.	4.0	136
62	Towards understanding of nanoparticleâ€“protein corona. Archives of Toxicology, 2015, 89, 519-539.	1.9	135
63	Physicochemical Origin for Free Radical Generation of Iron Oxide Nanoparticles in Biomicroenvironment: Catalytic Activities Mediated by Surface Chemical States. Journal of Physical Chemistry C, 2013, 117, 383-392.	1.5	131
64	Light-Enhanced Antibacterial Activity of Graphene Oxide, Mainly via Accelerated Electron Transfer. Environmental Science & Technology, 2017, 51, 10154-10161.	4.6	131
65	Quantitative Analysis of Metal Impurities in Carbon Nanotubes: Efficacy of Different Pretreatment Protocols for ICPMS Spectroscopy. Analytical Chemistry, 2008, 80, 9426-9434.	3.2	125
66	Rare earth separations by selective borate crystallization. Nature Communications, 2017, 8, 14438.	5.8	125
67	Age-Related Differences in Pulmonary and Cardiovascular Responses to SiO₂ Nanoparticle Inhalation: Nanotoxicity Has Susceptible Population. Environmental Science & Technology, 2008, 42, 8985-8992.	4.6	124
68	Origin of the different phytotoxicity and biotransformation of cerium and lanthanum oxide nanoparticles in cucumber. Nanotoxicology, 2015, 9, 262-270.	1.6	123
69	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. ACS Applied Materials & Interfaces, 2020, 12, 15579-15587.	4.0	115
70	Increased Oxidative DNA Damage, as Assessed by Urinary 8-Hydroxy-2â€²-Deoxyguanosine Concentrations, and Serum Redox Status in Persons Exposed to Mercury. Clinical Chemistry, 2005, 51, 759-767.	1.5	113
71	Recent advances in computational actinoid chemistry. Chemical Society Reviews, 2012, 41, 5836.	18.7	113
72	Ultrasmall [⁶⁴Cu]Cu Nanoclusters for Targeting Orthotopic Lung Tumors Using Accurate Positron Emission Tomography Imaging. ACS Nano, 2015, 9, 4976-4986.	7.3	108

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73	Neurotoxicological Evaluation of Long-Term Lanthanum Chloride Exposure in Rats. Toxicological Sciences, 2008, 103, 354-361.	1.4	106
74	Advanced nuclear analytical and related techniques for the growing challenges in nanotoxicology. Chemical Society Reviews, 2013, 42, 8266.	18.7	104
75	The translocation of fullerenic nanoparticles into lysosome via the pathway of clathrin-mediated endocytosis. Nanotechnology, 2008, 19, 145102.	1.3	103
76	Neurotoxicity of low-dose repeatedly intranasal instillation of nano- and submicron-sized ferric oxide particles in mice. Journal of Nanoparticle Research, 2009, 11, 41-53.	0.8	101
77	Gadolinium metallofullerenol nanoparticles inhibit cancer metastasis through matrix metalloproteinase inhibition: imprisoning instead of poisoning cancer cells. Nanomedicine: Nanotechnology, Biology, and Medicine, 2012, 8, 136-146.	1.7	101
78	Task-Specific Tailored Cationic Polymeric Network with High Base-Resistance for Unprecedented ⁹⁹TcO₄^{â€“} Cleanup from Alkaline Nuclear Waste. ACS Central Science, 2021, 7, 1441-1450.	5.3	101
79	Peptide-Conjugated Gold Nanoprobe: Intrinsic Nanozyme-Linked Immunsorbant Assay of Integrin Expression Level on Cell Membrane. ACS Nano, 2015, 9, 10979-10990.	7.3	99
80	Xylem and Phloem Based Transport of CeO₂ Nanoparticles in Hydroponic Cucumber Plants. Environmental Science & Technology, 2017, 51, 5215-5221.	4.6	97
81	Immunostimulatory properties and enhanced TNF-Î± mediated cellular immunity for tumor therapy by C₆₀(OH)₂₀nanoparticles. Nanotechnology, 2009, 20, 415102.	1.3	96
82	Toxicity of inorganic nanomaterials in biomedical imaging. Biotechnology Advances, 2014, 32, 727-743.	6.0	94
83	pHâ€Responsive Fe(III)â€“Gallic Acid Nanoparticles for In Vivo Photoacousticâ€Imagingâ€Guided Photothermal Therapy. Advanced Healthcare Materials, 2016, 5, 772-780.	3.9	94
84	A high efficient sorption of U(VI) from aqueous solution using amino-functionalized SBA-15. Journal of Radioanalytical and Nuclear Chemistry, 2012, 292, 803-810.	0.7	92
85	Light-Triggered PEGylation/dePEGylation of the Nanocarriers for Enhanced Tumor Penetration. Nano Letters, 2019, 19, 3671-3675.	4.5	92
86	Vacancies on 2D transition metal dichalcogenides elicit ferroptotic cell death. Nature Communications, 2020, 11, 3484.	5.8	90
87	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. Journal of the American Chemical Society, 2020, 142, 9169-9174.	6.6	90
88	Three-Dimensional Polycatenation of a Uranium-Based Metalâ€“Organic Cage: Structural Complexity and Radiation Detection. Journal of the American Chemical Society, 2020, 142, 16218-16222.	6.6	89
89	New Insight into GO, Cadmium(II), Phosphate Interaction and Its Role in GO Colloidal Behavior. Environmental Science & Technology, 2016, 50, 9361-9369.	4.6	85
90	Transformation of ceria nanoparticles in cucumber plants is influenced by phosphate. Environmental Pollution, 2015, 198, 8-14.	3.7	84

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91	Palladium concave nanocrystals with high-index facets accelerate ascorbate oxidation in cancer treatment. Nature Communications, 2018, 9, 4861.	5.8	84
92	Multielemental singleâ€“atom-thick A layers in nanolaminated V ₂ (Sn, A) C () Tj ETQq0 0 0 rgBT /Overlock 1 Sciences of the United States of America, 2020, 117, 820-825.	3.3	84
93	Comparison Study on the Antibacterial Activity of Nano- or Bulk-Cerium Oxide. Journal of Nanoscience and Nanotechnology, 2011, 11, 4103-4108.	0.9	83
94	Where Does the Transformation of Precipitated Ceria Nanoparticles in Hydroponic Plants Take Place?. Environmental Science & Technology, 2015, 49, 10667-10674.	4.6	82
95	Human hair as a potential biomonitor for assessing persistent organic pollutants. Environment International, 2007, 33, 685-693.	4.8	80
96	Quantitative Analysis of Proteins via Sulfur Determination by HPLC Coupled to Isotope Dilution ICPMS with a Hexapole Collision Cell. Analytical Chemistry, 2007, 79, 9128-9134.	3.2	77
97	D-arginine-loaded metal-organic frameworks nanoparticles sensitize osteosarcoma to radiotherapy. Biomaterials, 2021, 269, 120642.	5.7	77
98	Concentration characteristics of extractable organohalogens in PM2.5 and PM10 in Beijing, China. Atmospheric Environment, 2005, 39, 4119-4128.	1.9	76
99	Organic Selenium Supplementation Increases Mercury Excretion and Decreases Oxidative Damage in Long-Term Mercury-Exposed Residents from Wanshan, China. Environmental Science & Technology, 2012, 46, 11313-11318.	4.6	76
100	Time-resolved ICP-MS analysis of mineral element contents and distribution patterns in single cells. Analyst, The, 2015, 140, 523-531.	1.7	76
101	ZnO nanoparticles act as supportive therapy in DSS-induced ulcerative colitis in mice by maintaining gut homeostasis and activating Nrf2 signaling. Scientific Reports, 2017, 7, 43126.	1.6	76
102	Mapping technique for biodistribution of elements in a model organism, Caenorhabditis elegans, after exposure to copper nanoparticles with microbeam synchrotron radiation X-ray fluorescence. Journal of Analytical Atomic Spectrometry, 2008, 23, 1121.	1.6	75
103	Effects of Copper Nanoparticles on the Development of Zebrafish Embryos. Journal of Nanoscience and Nanotechnology, 2010, 10, 8670-8676.	0.9	75
104	mTOR Signaling in Parkinsonâ€™s Disease. NeuroMolecular Medicine, 2017, 19, 1-10.	1.8	74
105	Mesoporous silica SBA-15 functionalized with phosphonate and amino groups for uranium uptake. Science China Chemistry, 2012, 55, 1705-1711.	4.2	73
106	Selenium inhibits the phytotoxicity of mercury in garlic (Allium sativum). Environmental Research, 2013, 125, 75-81.	3.7	73
107	The influence of iron plaque on the absorption, translocation and transformation of mercury in rice (Oryza sativa L.) seedlings exposed to different mercury species. Plant and Soil, 2016, 398, 87-97.	1.8	73
108	Potential Health Impact on Mice after Nasal Instillation of Nano-Sized Copper Particles and Their Translocation in Mice. Journal of Nanoscience and Nanotechnology, 2009, 9, 6335-6343.	0.9	72

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109	Distribution of some rare earth elements and their binding species with proteins in human liver studied by instrumental neutron activation analysis combined with biochemical techniques. Analytica Chimica Acta, 2001, 439, 19-27.	2.6	68
110	Size- and surface chemistry-dependent pharmacokinetics and tumor accumulation of engineered gold nanoparticles after intravenous administration. Metallomics, 2015, 7, 516-524.	1.0	68
111	Graphene Oxide Nanosheets Retard Cellular Migration via Disruption of Actin Cytoskeleton. Small, 2017, 13, 1602133.	5.2	68
112	Long-term effects of lanthanum intake on the neurobehavioral development of the rat. Neurotoxicology and Teratology, 2006, 28, 119-124.	1.2	67
113	Integrative approach for the analysis of the proteome-wide response to bismuth drugs in Helicobacter pylori. Chemical Science, 2017, 8, 4626-4633.	3.7	66
114	Effects of rare earth elements La and Yb on the morphological and functional development of zebrafish embryos. Journal of Environmental Sciences, 2012, 24, 209-213.	3.2	65
115	Selenium modulates mercury uptake and distribution in rice (Oryza sativa L.), in correlation with mercury species and exposure level. Metallomics, 2014, 6, 1951-1957.	1.0	64
116	Near-Infrared Light-Triggered Switchable Nanoparticles for Targeted Chemo/Photothermal Cancer Therapy. ACS Applied Materials & Interfaces, 2016, 8, 15103-15112.	4.0	61
117	Adsorption and desorption characteristics of arsenic onto ceria nanoparticles. Nanoscale Research Letters, 2012, 7, 84.	3.1	60
118	A thermoresponsive nanocarrier for mitochondria-targeted drug delivery. Chemical Communications, 2019, 55, 4051-4054.	2.2	60
119	Au Clusters Treat Rheumatoid Arthritis with Uniquely Reversing Cartilage/Bone Destruction. Advanced Science, 2019, 6, 1801671.	5.6	60
120	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti₃(Al_xCu_{1â€“x})C₂ and Its Artificial Enzyme Behavior. ACS Nano, 2019, 13, 9198-9205.	7.3	59
121	Highly selective extraction of Pu (IV) and Am (III) by N,Nâ€²-diethyl-N,Nâ€²-ditolyl-2,9-diamide-1,10-phenanthroline ligand: An experimental and theoretical study. Separation and Purification Technology, 2019, 223, 274-281.	3.9	59
122	Surface chemistry governs the sub-organ transfer, clearance and toxicity of functional gold nanoparticles in the liver and kidney. Journal of Nanobiotechnology, 2020, 18, 45.	4.2	59
123	Blue two-photon fluorescence metal cluster probe precisely marking cell nuclei of two cell lines. Chemical Communications, 2013, 49, 10724.	2.2	58
124	Synthesis of MAX phases Nb₂CuC and Ti₂(Al_{0.1}Cu_{0.9})N by A-site replacement reaction in molten salts. Materials Research Letters, 2019, 7, 510-516.	4.1	58
125	Understanding Enhanced Microbial MeHg Production in Mining-Contaminated Paddy Soils under Sulfate Amendment: Changes in Hg Mobility or Microbial Methylators?. Environmental Science & Technology, 2019, 53, 1844-1852.	4.6	58
126	Emergence of a Radicalâ€Stabilizing Metalâ€“Organic Framework as a Radioâ€photoluminescence Dosimeter. Angewandte Chemie - International Edition, 2020, 59, 15209-15214.	7.2	56

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127	Advanced nuclear analytical techniques for metalloproteomics. Journal of Analytical Atomic Spectrometry, 2007, 22, 856.	1.6	55
128	Facile Approach To Observe and Quantify the Î±_{IIb}Î²₃ Integrin on a Single-Cell. Analytical Chemistry, 2015, 87, 2546-2549.	3.2	53
129	Heteroaggregation behavior of graphene oxide on Zr-based metalâ€“organic frameworks in aqueous solutions: a combined experimental and theoretical study. Journal of Materials Chemistry A, 2017, 5, 20398-20406.	5.2	53
130	Competition/Cooperation between Humic Acid and Graphene Oxide in Uranyl Adsorption Implicated by Molecular Dynamics Simulations. Environmental Science & Technology, 2019, 53, 5102-5110.	4.6	53
131	Precise recognition of palladium through interlaminar chelation in a covalent organic framework. CheM, 2022, 8, 1442-1459.	5.8	53
132	A new solvent system containing N,Nâ€²-diethyl-N,Nâ€²-ditolyl-2,9-diamide-1,10-phenanthroline in 1-(trifluoromethyl)-3-nitrobenzene for highly selective UO 2 2+ extraction. Separation and Purification Technology, 2016, 168, 232-237.	3.9	52
133	Highly Sensitive Detection of UV Radiation Using a Uranium Coordination Polymer. ACS Applied Materials & Interfaces, 2018, 10, 4844-4850.	4.0	52
134	Detection of metalloproteins in human liver cytosol by synchrotron radiation X-ray fluorescence after sodium dodecyl sulphate polyacrylamide gel electrophoresis. Analytica Chimica Acta, 2003, 485, 131-137.	2.6	51
135	The Strong MRI Relaxivity of Paramagnetic Nanoparticles. Journal of Physical Chemistry B, 2008, 112, 6288-6291.	1.2	51
136	Simultaneous speciation of selenium and mercury in human urine samples from long-term mercury-exposed populations with supplementation of selenium-enriched yeast by HPLC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2007, 22, 925.	1.6	50
137	Design and synthesis of a chiral uranium-based microporous metal organic framework with high SHG efficiency and sequestration potential for low-valent actinides. Dalton Transactions, 2015, 44, 18810-18814.	1.6	49
138	Trophic Transfer and Transformation of CeO₂ Nanoparticles along a Terrestrial Food Chain: Influence of Exposure Routes. Environmental Science & Technology, 2018, 52, 7921-7927.	4.6	49
139	Tuning the Electrical Conductivity of Ti₂CO₂ MXene by Varying the Layer Thickness and Applying Strains. Journal of Physical Chemistry C, 2019, 123, 6802-6811.	1.5	49
140	The distribution profile and oxidation states of biometals in APP transgenic mouse brain: dyshomeostasis with age and as a function of the development of Alzheimer's disease. Metallomics, 2012, 4, 289.	1.0	48
141	Solvent extraction of U(VI) by trioctylphosphine oxide using a room-temperature ionic liquid. Science China Chemistry, 2014, 57, 1432-1438.	4.2	48
142	Label-Free Au Cluster Used for in Vivo 2D and 3D Computed Tomography of Murine Kidneys. Analytical Chemistry, 2015, 87, 343-345.	3.2	48
143	A Porous Aromatic Framework Functionalized with Luminescent Iridium(III) Organometallic Complexes for Turn-On Sensing of ⁹⁹TcO₄^{â€“}. ACS Applied Materials & Interfaces, 2020, 12, 15288-15297.	4.0	46
144	Levels of Extractable Organohalogens in Pine Needles in China. Environmental Science & Technology, 2003, 37, 1-6.	4.6	45

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145	Organohalogenated compounds in pine needles from Beijing city, China. Chemosphere, 2004, 57, 1343-1353.	4.2	45
146	Interrogating the variation of element masses and distribution patterns in single cells using ICP-MS with a high efficiency cell introduction system. Analytical and Bioanalytical Chemistry, 2017, 409, 1415-1423.	1.9	45
147	Influence of Surface Charge on the Phytotoxicity, Transformation, and Translocation of CeO₂ Nanoparticles in Cucumber Plants. ACS Applied Materials & Interfaces, 2019, 11, 16905-16913.	4.0	45
148	Accumulation of mercury, selenium and their binding proteins in porcine kidney and liver from mercury-exposed areas with the investigation of their redox responses. Science of the Total Environment, 2006, 366, 627-637.	3.9	44
149	Comparative Pulmonary Toxicity of Two Ceria Nanoparticles with the Same Primary Size. International Journal of Molecular Sciences, 2014, 15, 6072-6085.	1.8	44
150	Synthesis and characterization of novel macroporous silica-polymer-calixcrown hybrid supramolecular recognition materials for effective separation of cesium. Journal of Hazardous Materials, 2014, 267, 109-118.	6.5	44
151	Layered structure-based materials: challenges and opportunities for radionuclide sequestration. Environmental Science: Nano, 2020, 7, 724-752.	2.2	44
152	Serum and urine chromium concentrations in elderly diabetics. Biological Trace Element Research, 1998, 63, 231-237.	1.9	43
153	Regional distribution of organochlorinated pesticides in pine needles and its indication for socioeconomic development. Chemosphere, 2004, 54, 743-752.	4.2	43
154	Scalp hair as a biomarker in environmental and occupational mercury exposed populations: Suitable or not?. Environmental Research, 2008, 107, 39-44.	3.7	43
155	Oral magnetite nanoparticles disturb the development ofDrosophila melanogasterfrom oogenesis to adult emergence. Nanotoxicology, 2015, 9, 302-312.	1.6	43
156	Ecotoxicological assessment of lanthanum with Caenorhabditis elegans in liquid medium. Metallomics, 2010, 2, 806.	1.0	42
157	Subcellular distribution of selenium and Se-containing proteins in human liver. Biochimica Et Biophysica Acta - General Subjects, 1999, 1427, 205-215.	1.1	41
158	Coordination of Eu(III) with 1,10-Phenanthroline-2,9-dicarboxamide Derivatives: A Combined Study by MS, TRLIF, and DFT. Inorganic Chemistry, 2019, 58, 10239-10247.	1.9	41
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