

Zhifang Chai

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376
papers

22,038
citations

77
h-index

138
g-index

400
ext. papers

25,837
ext. citations

7.3
avg, IF

6.87
L-index

#	Paper	IF	Citations
376	Metal-organic framework-based materials: superior adsorbents for the capture of toxic and radioactive metal ions. <i>Chemical Society Reviews</i> , 2018 , 47, 2322-2356	58.5	1077
375	Acute toxicity and biodistribution of different sized titanium dioxide particles in mice after oral administration. <i>Toxicology Letters</i> , 2007 , 168, 176-85	4.4	861
374	Binding of blood proteins to carbon nanotubes reduces cytotoxicity. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 16968-73	11.5	738
373	Acute toxicological effects of copper nanoparticles in vivo. <i>Toxicology Letters</i> , 2006 , 163, 109-20	4.4	691
372	Recent advances in design and fabrication of upconversion nanoparticles and their safe theranostic applications. <i>Advanced Materials</i> , 2013 , 25, 3758-79	24	400
371	A general Lewis acidic etching route for preparing MXenes with enhanced electrochemical performance in non-aqueous electrolyte. <i>Nature Materials</i> , 2020 , 19, 894-899	27	368
370	Element Replacement Approach by Reaction with Lewis Acidic Molten Salts to Synthesize Nanolaminated MAX Phases and MXenes. <i>Journal of the American Chemical Society</i> , 2019 , 141, 4730-4737	16.4	355
369	Uranium(VI) adsorption on graphene oxide nanosheets from aqueous solutions. <i>Chemical Engineering Journal</i> , 2012 , 210, 539-546	14.7	343
368	Time-dependent translocation and potential impairment on central nervous system by intranasally instilled TiO ₂ nanoparticles. <i>Toxicology</i> , 2008 , 254, 82-90	4.4	341
367	Light-Triggered Assembly of Gold Nanoparticles for Photothermal Therapy and Photoacoustic Imaging of Tumors In Vivo. <i>Advanced Materials</i> , 2017 , 29, 1604894	24	320
366	Effects of rare earth oxide nanoparticles on root elongation of plants. <i>Chemosphere</i> , 2010 , 78, 273-9	8.4	318
365	Toxicity of zinc oxide nanoparticles to zebrafish embryo: a physicochemical study of toxicity mechanism. <i>Journal of Nanoparticle Research</i> , 2010 , 12, 1645-1654	2.3	297
364	Elimination efficiency of different reagents for the memory effect of mercury using ICP-MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2006 , 21, 94-96	3.7	283
363	Biotransformation of ceria nanoparticles in cucumber plants. <i>ACS Nano</i> , 2012 , 6, 9943-50	16.7	282
362	Potential neurological lesion after nasal instillation of TiO ₂ nanoparticles in the anatase and rutile crystal phases. <i>Toxicology Letters</i> , 2008 , 183, 72-80	4.4	279
361	Acute toxicological impact of nano- and submicro-scaled zinc oxide powder on healthy adult mice. <i>Journal of Nanoparticle Research</i> , 2008 , 10, 263-276	2.3	276
360	Overcoming the crystallization and designability issues in the ultrastable zirconium phosphonate framework system. <i>Nature Communications</i> , 2017 , 8, 15369	17.4	266

359	Identifying the Recognition Site for Selective Trapping of TcO in a Hydrolytically Stable and Radiation Resistant Cationic Metal-Organic Framework. <i>Journal of the American Chemical Society</i> , 2017 , 139, 14873-14876	16.4	263
358	Differential Pd-nanocrystal facets demonstrate distinct antibacterial activity against Gram-positive and Gram-negative bacteria. <i>Nature Communications</i> , 2018 , 9, 129	17.4	260
357	Multihydroxylated [Gd@C82(OH)22]n nanoparticles: antineoplastic activity of high efficiency and low toxicity. <i>Nano Letters</i> , 2005 , 5, 2050-7	11.5	256
356	Highly Sensitive and Selective Uranium Detection in Natural Water Systems Using a Luminescent Mesoporous Metal-Organic Framework Equipped with Abundant Lewis Basic Sites: A Combined Batch, X-ray Absorption Spectroscopy, and First Principles Simulation Investigation. <i>Environmental Science & Technology</i> , 2017 , 51, 3911-3921	10.3	246
355	Synthesis and Electrochemical Properties of Two-Dimensional Hafnium Carbide. <i>ACS Nano</i> , 2017 , 11, 3841-3850	16.7	229
354	Nano-CeO2 exhibits adverse effects at environmental relevant concentrations. <i>Environmental Science & Technology</i> , 2011 , 45, 3725-30	10.3	225
353	A mesoporous cationic thorium-organic framework that rapidly traps anionic persistent organic pollutants. <i>Nature Communications</i> , 2017 , 8, 1354	17.4	211
352	BSA-Mediated Synthesis of Bismuth Sulfide Nanotheranostic Agents for Tumor Multimodal Imaging and Thermoradiotherapy. <i>Advanced Functional Materials</i> , 2016 , 26, 5335-5344	15.6	203
351	Protein Corona Influences Cellular Uptake of Gold Nanoparticles by Phagocytic and Nonphagocytic Cells in a Size-Dependent Manner. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 20568-75	9.5	191
350	Ultrasensitive Biocompatible WO ₃ -x Nanodots for Multi-Modality Imaging and Combined Therapy of Cancers. <i>Advanced Materials</i> , 2016 , 28, 5072-9	24	191
349	Full assessment of fate and physiological behavior of quantum dots utilizing <i>Caenorhabditis elegans</i> as a model organism. <i>Nano Letters</i> , 2011 , 11, 3174-83	11.5	188
348	Broad-spectrum antibacterial activity of carbon nanotubes to human gut bacteria. <i>Small</i> , 2013 , 9, 2735-46	11.5	185
347	Hydrolytically Stable Luminescent Cationic Metal Organic Framework for Highly Sensitive and Selective Sensing of Chromate Anions in Natural Water Systems. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 16448-16457	9.5	182
346	Ultrafast and Efficient Extraction of Uranium from Seawater Using an Amidoxime Appended Metal-Organic Framework. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 32446-32451	9.5	176
345	Interaction mechanism of uranium(VI) with three-dimensional graphene oxide-chitosan composite: Insights from batch experiments, IR, XPS, and EXAFS spectroscopy. <i>Chemical Engineering Journal</i> , 2017 , 328, 1066-1074	14.7	176
344	Highly Sensitive Detection of Ionizing Radiations by a Photoluminescent Uranyl Organic Framework. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 7500-7504	16.4	172
343	Development of a mild mercaptoethanol extraction method for determination of mercury species in biological samples by HPLC-ICP-MS. <i>Talanta</i> , 2007 , 71, 2034-9	6.2	163
342	The effect of Gd@C82(OH)22 nanoparticles on the release of Th1/Th2 cytokines and induction of TNF-alpha mediated cellular immunity. <i>Biomaterials</i> , 2009 , 30, 3934-45	15.6	159

341	Facet Energy versus Enzyme-like Activities: The Unexpected Protection of Palladium Nanocrystals against Oxidative Damage. <i>ACS Nano</i> , 2016 , 10, 10436-10445	16.7	157
340	Efficient U(VI) Reduction and Sequestration by TiCT MXene. <i>Environmental Science & Technology</i> , 2018 , 52, 10748-10756	10.3	147
339	Acquired superoxide-scavenging ability of ceria nanoparticles. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 1832-5	16.4	143
338	Comparative toxicity of nanoparticulate/bulk YbO ₃ and YbCl ₃ to cucumber (<i>Cucumis sativus</i>). <i>Environmental Science & Technology</i> , 2012 , 46, 1834-41	10.3	140
337	The roles of serum selenium and selenoproteins on mercury toxicity in environmental and occupational exposure. <i>Environmental Health Perspectives</i> , 2006 , 114, 297-301	8.4	140
336	Loading Actinides in Multilayered Structures for Nuclear Waste Treatment: The First Case Study of Uranium Capture with Vanadium Carbide MXene. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 16396-403	9.5	138
335	Antioxidative function and biodistribution of [Gd@C82(OH)22] _n nanoparticles in tumor-bearing mice. <i>Biochemical Pharmacology</i> , 2006 , 71, 872-81	6	138
334	Crossover between Anti- and Pro-oxidant Activities of Graphene Quantum Dots in the Absence or Presence of Light. <i>ACS Nano</i> , 2016 , 10, 8690-9	16.7	136
333	Potent angiogenesis inhibition by the particulate form of fullerene derivatives. <i>ACS Nano</i> , 2010 , 4, 2773-83	16.7	134
332	Phytotoxicity and biotransformation of La ₂ O ₃ nanoparticles in a terrestrial plant cucumber (<i>Cucumis sativus</i>). <i>Nanotoxicology</i> , 2011 , 5, 743-53	5.3	134
331	Rational control of the interlayer space inside two-dimensional titanium carbides for highly efficient uranium removal and imprisonment. <i>Chemical Communications</i> , 2017 , 53, 12084-12087	5.8	132
330	Exceptional Perrhenate/Pertechnetate Uptake and Subsequent Immobilization by a Low-Dimensional Cationic Coordination Polymer: Overcoming the Hofmeister Bias Selectivity. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 316-322	11	131
329	Emergence of Uranium as a Distinct Metal Center for Building Intrinsic X-ray Scintillators. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 7883-7887	16.4	131
328	Defect engineering in metal-organic frameworks: a new strategy to develop applicable actinide sorbents. <i>Chemical Communications</i> , 2018 , 54, 370-373	5.8	131
327	Influences of Structural Properties on Stability of Fullerenols. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 11473-11479	3.4	130
326	Lung deposition and extrapulmonary translocation of nano-ceria after intratracheal instillation. <i>Nanotechnology</i> , 2010 , 21, 285103	3.4	123
325	Near-infrared light remote-controlled intracellular anti-cancer drug delivery using thermo/pH sensitive nanovehicle. <i>Acta Biomaterialia</i> , 2015 , 17, 201-9	10.8	120
324	Neurotoxicological consequence of long-term exposure to lanthanum. <i>Toxicology Letters</i> , 2006 , 165, 112-20	4.4	117

323	Quantitative analysis of metal impurities in carbon nanotubes: efficacy of different pretreatment protocols for ICPMS spectroscopy. <i>Analytical Chemistry</i> , 2008 , 80, 9426-34	7.8	114
322	Towards understanding of nanoparticle-protein corona. <i>Archives of Toxicology</i> , 2015 , 89, 519-39	5.8	112
321	Age-related differences in pulmonary and cardiovascular responses to SiO ₂ nanoparticle inhalation: nanotoxicity has susceptible population. <i>Environmental Science & Technology</i> , 2008 , 42, 8985-92	10.3	109
320	Physicochemical Origin for Free Radical Generation of Iron Oxide Nanoparticles in Biomicroenvironment: Catalytic Activities Mediated by Surface Chemical States. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 383-392	3.8	106
319	Recent advances in computational actinoid chemistry. <i>Chemical Society Reviews</i> , 2012 , 41, 5836-65	58.5	104
318	Origin of the different phytotoxicity and biotransformation of cerium and lanthanum oxide nanoparticles in cucumber. <i>Nanotoxicology</i> , 2015 , 9, 262-70	5.3	102
317	Phase Transition Induced Unusual Electrochemical Performance of VCT MXene for Aqueous Zinc Hybrid-Ion Battery. <i>ACS Nano</i> , 2020 , 14, 541-551	16.7	99
316	Increased oxidative DNA damage, as assessed by urinary 8-hydroxy-2Pdeoxyguanosine concentrations, and serum redox status in persons exposed to mercury. <i>Clinical Chemistry</i> , 2005 , 51, 759-67	5.5	98
315	Mechanism unravelling for ultrafast and selective TcO uptake by a radiation-resistant cationic covalent organic framework: a combined radiological experiment and molecular dynamics simulation study. <i>Chemical Science</i> , 2019 , 10, 4293-4305	9.4	96
314	Rare earth separations by selective borate crystallization. <i>Nature Communications</i> , 2017 , 8, 14438	17.4	94
313	Effective Removal of Anionic Re(VII) by Surface-Modified TiCT MXene Nanocomposites: Implications for Tc(VII) Sequestration. <i>Environmental Science & Technology</i> , 2019 , 53, 3739-3747	10.3	94
312	Ultrasmall [(64)Cu]Cu nanoclusters for targeting orthotopic lung tumors using accurate positron emission tomography imaging. <i>ACS Nano</i> , 2015 , 9, 4976-86	16.7	93
311	The effects of orally administered Ag, TiO ₂ and SiO ₂ nanoparticles on gut microbiota composition and colitis induction in mice. <i>NanoImpact</i> , 2017 , 8, 80-88	5.6	93
310	Neurotoxicity of low-dose repeatedly intranasal instillation of nano- and submicron-sized ferric oxide particles in mice. <i>Journal of Nanoparticle Research</i> , 2009 , 11, 41-53	2.3	92
309	Neurotoxicological evaluation of long-term lanthanum chloride exposure in rats. <i>Toxicological Sciences</i> , 2008 , 103, 354-61	4.4	90
308	Advanced nuclear analytical and related techniques for the growing challenges in nanotoxicology. <i>Chemical Society Reviews</i> , 2013 , 42, 8266-303	58.5	88
307	The translocation of fullerene nanoparticles into lysosome via the pathway of clathrin-mediated endocytosis. <i>Nanotechnology</i> , 2008 , 19, 145102	3.4	88
306	Gadolinium metallofullerenol nanoparticles inhibit cancer metastasis through matrix metalloproteinase inhibition: imprisoning instead of poisoning cancer cells. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2012 , 8, 136-46	6	86

305	Peptide-Conjugated Gold Nanoprobe: Intrinsic Nanozyme-Linked Immunosorbant Assay of Integrin Expression Level on Cell Membrane. <i>ACS Nano</i> , 2015 , 9, 10979-90	16.7	84
304	Light-Enhanced Antibacterial Activity of Graphene Oxide, Mainly via Accelerated Electron Transfer. <i>Environmental Science & Technology</i> , 2017 , 51, 10154-10161	10.3	83
303	Covalent Organic Framework Functionalized with 8-Hydroxyquinoline as a Dual-Mode Fluorescent and Colorimetric pH Sensor. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 15364-15368	9.5	81
302	Toxicity of inorganic nanomaterials in biomedical imaging. <i>Biotechnology Advances</i> , 2014 , 32, 727-43	17.8	77
301	Immunostimulatory properties and enhanced TNF- alpha mediated cellular immunity for tumor therapy by C60(OH)20 nanoparticles. <i>Nanotechnology</i> , 2009 , 20, 415102	3.4	76
300	Effective removal of U(VI) and Eu(III) by carboxyl functionalized MXene nanosheets. <i>Journal of Hazardous Materials</i> , 2020 , 396, 122731	12.8	75
299	Where Does the Transformation of Precipitated Ceria Nanoparticles in Hydroponic Plants Take Place?. <i>Environmental Science & Technology</i> , 2015 , 49, 10667-74	10.3	74
298	A high efficient sorption of U(VI) from aqueous solution using amino-functionalized SBA-15. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2012 , 292, 803-810	1.5	74
297	Transformation of ceria nanoparticles in cucumber plants is influenced by phosphate. <i>Environmental Pollution</i> , 2015 , 198, 8-14	9.3	73
296	New Insight into GO, Cadmium(II), Phosphate Interaction and Its Role in GO Colloidal Behavior. <i>Environmental Science & Technology</i> , 2016 , 50, 9361-9	10.3	73
295	Quantitative analysis of proteins via sulfur determination by HPLC coupled to isotope dilution ICPMS with a hexapole collision cell. <i>Analytical Chemistry</i> , 2007 , 79, 9128-34	7.8	72
294	pH-Responsive Fe(III)-Gallic Acid Nanoparticles for In Vivo Photoacoustic-Imaging-Guided Photothermal Therapy. <i>Advanced Healthcare Materials</i> , 2016 , 5, 772-80	10.1	72
293	Xylem and Phloem Based Transport of CeO Nanoparticles in Hydroponic Cucumber Plants. <i>Environmental Science & Technology</i> , 2017 , 51, 5215-5221	10.3	71
292	Human hair as a potential biomonitor for assessing persistent organic pollutants. <i>Environment International</i> , 2007 , 33, 685-93	12.9	68
291	Mapping technique for biodistribution of elements in a model organism, <i>Caenorhabditis elegans</i> , after exposure to copper nanoparticles with microbeam synchrotron radiation X-ray fluorescence. <i>Journal of Analytical Atomic Spectrometry</i> , 2008 , 23, 1121	3.7	66
290	Concentration characteristics of extractable organohalogens in PM2.5 and PM10 in Beijing, China. <i>Atmospheric Environment</i> , 2005 , 39, 4119-4128	5.3	66
289	Organic selenium supplementation increases mercury excretion and decreases oxidative damage in long-term mercury-exposed residents from Wanshan, China. <i>Environmental Science & Technology</i> , 2012 , 46, 11313-8	10.3	64
288	Potential health impact on mice after nasal instillation of nano-sized copper particles and their translocation in mice. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6335-43	1.3	64

287	Selenium inhibits the phytotoxicity of mercury in garlic (<i>Allium sativum</i>). <i>Environmental Research</i> , 2013 , 125, 75-81	7.9	63
286	Mesoporous silica SBA-15 functionalized with phosphonate and amino groups for uranium uptake. <i>Science China Chemistry</i> , 2012 , 55, 1705-1711	7.9	63
285	Comparison study on the antibacterial activity of nano- or bulk-cerium oxide. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 4103-8	1.3	63
284	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. <i>Analytica Chimica Acta</i> , 2001 , 439, 19-27	6.6	63
283	Effects of copper nanoparticles on the development of zebrafish embryos. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 8670-6	1.3	62
282	Light-Triggered PEGylation/dePEGylation of the Nanocarriers for Enhanced Tumor Penetration. <i>Nano Letters</i> , 2019 , 19, 3671-3675	11.5	61
281	Long-term effects of lanthanum intake on the neurobehavioral development of the rat. <i>Neurotoxicology and Teratology</i> , 2006 , 28, 119-24	3.9	56
280	The influence of iron plaque on the absorption, translocation and transformation of mercury in rice (<i>Oryza sativa</i> L.) seedlings exposed to different mercury species. <i>Plant and Soil</i> , 2016 , 398, 87-97	4.2	55
279	Size- and surface chemistry-dependent pharmacokinetics and tumor accumulation of engineered gold nanoparticles after intravenous administration. <i>Metallomics</i> , 2015 , 7, 516-24	4.5	55
278	Palladium concave nanocrystals with high-index facets accelerate ascorbate oxidation in cancer treatment. <i>Nature Communications</i> , 2018 , 9, 4861	17.4	54
277	Selenium modulates mercury uptake and distribution in rice (<i>Oryza sativa</i> L.), in correlation with mercury species and exposure level. <i>Metallomics</i> , 2014 , 6, 1951-7	4.5	53
276	Time-resolved ICP-MS analysis of mineral element contents and distribution patterns in single cells. <i>Analyst, The</i> , 2015 , 140, 523-31	5	52
275	Blue two-photon fluorescence metal cluster probe precisely marking cell nuclei of two cell lines. <i>Chemical Communications</i> , 2013 , 49, 10724-6	5.8	51
274	Halogenated TiC MXenes with Electrochemically Active Terminals for High-Performance Zinc Ion Batteries. <i>ACS Nano</i> , 2021 , 15, 1077-1085	16.7	50
273	Graphene Oxide Nanosheets Retard Cellular Migration via Disruption of Actin Cytoskeleton. <i>Small</i> , 2017 , 13, 1602133	11	49
272	The strong MRI relaxivity of paramagnetic nanoparticles. <i>Journal of Physical Chemistry B</i> , 2008 , 112, 6288-91	5.4	49
271	Advanced nuclear analytical techniques for metalloproteomics. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 856	3.7	48
270	ZnO nanoparticles act as supportive therapy in DSS-induced ulcerative colitis in mice by maintaining gut homeostasis and activating Nrf2 signaling. <i>Scientific Reports</i> , 2017 , 7, 43126	4.9	47

269	Effects of rare earth elements La and Yb on the morphological and functional development of zebrafish embryos. <i>Journal of Environmental Sciences</i> , 2012 , 24, 209-13	6.4	47
268	Facile approach to observe and quantify the α 5 β 1 integrin on a single-cell. <i>Analytical Chemistry</i> , 2015 , 87, 2546-9	7.8	47
267	Adsorption and desorption characteristics of arsenic onto ceria nanoparticles. <i>Nanoscale Research Letters</i> , 2012 , 7, 84	5	46
266	Near-Infrared Light-Triggered Switchable Nanoparticles for Targeted Chemo/Photothermal Cancer Therapy. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 15103-12	9.5	45
265	Integrative approach for the analysis of the proteome-wide response to bismuth drugs in. <i>Chemical Science</i> , 2017 , 8, 4626-4633	9.4	44
264	Detection of metalloproteins in human liver cytosol by synchrotron radiation X-ray fluorescence after sodium dodecyl sulphate polyacrylamide gel electrophoresis. <i>Analytica Chimica Acta</i> , 2003 , 485, 131-137	6.6	42
263	Multielemental single-atom-thick layers in nanolaminated V(Sn,) C (= Fe, Co, Ni, Mn) for tailoring magnetic properties. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020 , 117, 820-825	11.5	42
262	Organohalogenated compounds in pine needles from Beijing city, China. <i>Chemosphere</i> , 2004 , 57, 1343-53	8.4	41
261	mTOR Signaling in Parkinson's Disease. <i>NeuroMolecular Medicine</i> , 2017 , 19, 1-10	4.6	40
260	A thermoresponsive nanocarrier for mitochondria-targeted drug delivery. <i>Chemical Communications</i> , 2019 , 55, 4051-4054	5.8	40
259	Aryl Diazonium-Assisted Amidoximation of MXene for Boosting Water Stability and Uranyl Sequestration via Electrochemical Sorption. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 15579-15587	8.5	40
258	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. <i>Journal of Analytical Atomic Spectrometry</i> , 2007 , 22, 925	3.7	40
257	Label-free Au cluster used for in vivo 2D and 3D computed tomography of murine kidneys. <i>Analytical Chemistry</i> , 2015 , 87, 343-5	7.8	39
256	Regional distribution of organochlorinated pesticides in pine needles and its indication for socioeconomic development. <i>Chemosphere</i> , 2004 , 54, 743-52	8.4	39
255	Design and synthesis of a chiral uranium-based microporous metal organic framework with high SHG efficiency and sequestration potential for low-valent actinides. <i>Dalton Transactions</i> , 2015 , 44, 18810-4	4.2	38
254	Highly Sensitive Detection of UV Radiation Using a Uranium Coordination Polymer. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 4844-4850	9.5	38
253	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. <i>Metallomics</i> , 2012 , 4, 289-96	4.5	38
252	A new solvent system containing N,N'-diethyl-N,N'-ditolyl-2,9-diamide-1,10-phenanthroline in 1-(trifluoromethyl)-3-nitrobenzene for highly selective UO ₂ ²⁺ extraction. <i>Separation and Purification Technology</i> , 2016 , 168, 232-237	8.3	37

251	Synthesis and characterization of novel macroporous silica-polymer-calixcrown hybrid supramolecular recognition materials for effective separation of cesium. <i>Journal of Hazardous Materials</i> , 2014 , 267, 109-18	12.8	37
250	Heteroaggregation behavior of graphene oxide on Zr-based metal-organic frameworks in aqueous solutions: a combined experimental and theoretical study. <i>Journal of Materials Chemistry A</i> , 2017 , 5, 20398-20406	13.3	37
249	Levels of extractable organohalogens in pine needles in China. <i>Environmental Science & Technology</i> , 2003 , 37, 1-6	10.3	37
248	Vacancies on 2D transition metal dichalcogenides elicit ferroptotic cell death. <i>Nature Communications</i> , 2020 , 11, 3484	17.4	37
247	Three-Dimensional Polycatenation of a Uranium-Based Metal-Organic Cage: Structural Complexity and Radiation Detection. <i>Journal of the American Chemical Society</i> , 2020 , 142, 16218-16222	16.4	37
246	Trophic Transfer and Transformation of CeO Nanoparticles along a Terrestrial Food Chain: Influence of Exposure Routes. <i>Environmental Science & Technology</i> , 2018 , 52, 7921-7927	10.3	37
245	SPEC: A New Process for Strontium and Cesium Partitioning Utilizing Two Macroporous Silica-Based Supramolecular Recognition Agents Impregnated Polymeric Composites. <i>Separation Science and Technology</i> , 2009 , 44, 2146-2168	2.5	36
244	Tuning electronic properties of metallic atom in bondage to a nanospace. <i>Journal of Physical Chemistry B</i> , 2005 , 109, 8779-85	3.4	36
243	Highly selective and simple synthesis of C(2)(m)-X-C(2)(n) fullerene dimers. <i>Journal of the American Chemical Society</i> , 2004 , 126, 11134-5	16.4	36
242	Electron Beam Irradiation as a General Approach for the Rapid Synthesis of Covalent Organic Frameworks under Ambient Conditions. <i>Journal of the American Chemical Society</i> , 2020 , 142, 9169-9174	16.4	35
241	Comparative pulmonary toxicity of two ceria nanoparticles with the same primary size. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 6072-85	6.3	35
240	Ecotoxicological assessment of lanthanum with <i>Caenorhabditis elegans</i> in liquid medium. <i>Metallomics</i> , 2010 , 2, 806-10	4.5	35
239	Serum and urine chromium concentrations in elderly diabetics. <i>Biological Trace Element Research</i> , 1998 , 63, 231-7	4.5	35
238	Accumulation of mercury, selenium and their binding proteins in porcine kidney and liver from mercury-exposed areas with the investigation of their redox responses. <i>Science of the Total Environment</i> , 2006 , 366, 627-37	10.2	35
237	Significance and systematic analysis of metallic impurities of carbon nanotubes produced by different manufacturers. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 2389-97	1.3	34
236	Understanding Enhanced Microbial MeHg Production in Mining-Contaminated Paddy Soils under Sulfate Amendment: Changes in Hg Mobility or Microbial Methylators?. <i>Environmental Science & Technology</i> , 2019 , 53, 1844-1852	10.3	34
235	Nanometallomics: an emerging field studying the biological effects of metal-related nanomaterials. <i>Metallomics</i> , 2014 , 6, 220-32	4.5	33
234	Metallomics insights for in vivo studies of metal based nanomaterials. <i>Metallomics</i> , 2013 , 5, 793-803	4.5	33

233	Scalp hair as a biomarker in environmental and occupational mercury exposed populations: suitable or not?. <i>Environmental Research</i> , 2008 , 107, 39-44	7.9	33
232	Subcellular distribution of selenium and Se-containing proteins in human liver. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1999 , 1427, 205-15	4	33
231	Au Clusters Treat Rheumatoid Arthritis with Uniquely Reversing Cartilage/Bone Destruction. <i>Advanced Science</i> , 2019 , 6, 1801671	13.6	32
230	Oral magnetite nanoparticles disturb the development of <i>Drosophila melanogaster</i> from oogenesis to adult emergence. <i>Nanotoxicology</i> , 2015 , 9, 302-12	5.3	32
229	Single-Atom-Thick Active Layers Realized in Nanolaminated Ti(AlCu)C and Its Artificial Enzyme Behavior. <i>ACS Nano</i> , 2019 , 13, 9198-9205	16.7	31
228	Solvent extraction of U(VI) by trioctylphosphine oxide using a room-temperature ionic liquid. <i>Science China Chemistry</i> , 2014 , 57, 1432-1438	7.9	31
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226	Chromatographic separation of cesium by a macroporous silica-based supramolecular recognition agent impregnated material. <i>Separation and Purification Technology</i> , 2009 , 66, 541-548	8.3	30
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