

Bing Wang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7962389/publications.pdf>

Version: 2024-02-01

69
papers

5,303
citations

101543

36
h-index

98798

67
g-index

72
all docs

72
docs citations

72
times ranked

8210
citing authors

#	ARTICLE	IF	CITATIONS
1	Interface-Confined Ferrous Centers for Catalytic Oxidation. <i>Science</i> , 2010, 328, 1141-1144.	12.6	866
2	Metabolism of Nanomaterials <i>in Vivo</i> : Blood Circulation and Organ Clearance. <i>Accounts of Chemical Research</i> , 2013, 46, 761-769.	15.6	424
3	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.	1.9	338
4	Acute toxicity of nano- and micro-scale zinc powder in healthy adult mice. <i>Toxicology Letters</i> , 2006, 161, 115-123.	0.8	276
5	Comparative study of pulmonary responses to nano- and submicron-sized ferric oxide in rats. <i>Toxicology</i> , 2008, 247, 102-111.	4.2	246
6	Broad-Spectrum Antibacterial Activity of Carbon Nanotubes to Human Gut Bacteria. <i>Small</i> , 2013, 9, 2735-2746.	10.0	236
7	Endothelial dysfunction and inflammation induced by iron oxide nanoparticle exposure: Risk factors for early atherosclerosis. <i>Toxicology Letters</i> , 2011, 203, 162-171.	0.8	193
8	Particokinetics and Extrapulmonary Translocation of Intratracheally Instilled Ferric Oxide Nanoparticles in Rats and the Potential Health Risk Assessment. <i>Toxicological Sciences</i> , 2009, 107, 342-351.	3.1	188
9	Transport of Intranasally Instilled Fine Fe ₂ O ₃ Particles into the Brain: Micro-distribution, Chemical States, and Histopathological Observation. <i>Biological Trace Element Research</i> , 2007, 118, 233-243.	3.5	139
10	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.	4.5	139
11	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.	3.1	131
12	Phase and morphology evolution of high dielectric CoO/Co ₃ O ₄ particles with Co ₃ O ₄ nanoneedles on surface for excellent microwave absorption application. <i>Chemical Engineering Journal</i> , 2020, 396, 125205.	12.7	113
13	Microglial activation, recruitment and phagocytosis as linked phenomena in ferric oxide nanoparticle exposure. <i>Toxicology Letters</i> , 2011, 205, 26-37.	0.8	106
14	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.	1.9	101
15	MnO ₂ /Carbon Composites for Supercapacitor: Synthesis and Electrochemical Performance. <i>Frontiers in Materials</i> , 2020, 7, .	2.4	98
16	Nanosurface chemistry and dose govern the bioaccumulation and toxicity of carbon nanotubes, metal nanomaterials and quantum dots in vivo. <i>Science Bulletin</i> , 2015, 60, 3-20.	9.0	96
17	Immunological Responses Induced by Blood Protein Coronas on Two-Dimensional MoS ₂ Nanosheets. <i>ACS Nano</i> , 2020, 14, 5529-5542.	14.6	82
18	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, 9128-9134.	6.5	77

#	ARTICLE	IF	CITATIONS
19	Time-resolved ICP-MS analysis of mineral element contents and distribution patterns in single cells. <i>Analyst</i> , 2015, 140, 523-531.	3.5	76
20	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.	3.3	76
21	Quantitative Analysis of Gold Nanoparticles in Single Cells by Laser Ablation Inductively Coupled Plasma-Mass Spectrometry. <i>Analytical Chemistry</i> , 2014, 86, 10252-10256.	6.5	73
22	One-step synthesis of the reduced graphene oxide@NiO composites for supercapacitor electrodes by electrode-assisted plasma electrolysis. <i>Materials and Design</i> , 2020, 196, 109111.	7.0	67
23	Recent advances in hydrogen generation process via hydrolysis of Mg-based materials: A short review. <i>Journal of Alloys and Compounds</i> , 2020, 816, 152634.	5.5	65
24	First-principles studies in Mg-based hydrogen storage Materials: A review. <i>Energy</i> , 2020, 211, 118959.	8.8	60
25	TiN/Al ₂ O ₃ binary ceramics for negative permittivity metamaterials at kHz frequencies. <i>Journal of Alloys and Compounds</i> , 2021, 855, 157499.	5.5	60
26	Surface chemistry governs the sub-organ transfer, clearance and toxicity of functional gold nanoparticles in the liver and kidney. <i>Journal of Nanobiotechnology</i> , 2020, 18, 45.	9.1	59
27	Determination of quantum dots in single cells by inductively coupled plasma mass spectrometry. <i>Talanta</i> , 2013, 116, 782-787.	5.5	56
28	NiS nanoparticles assembled on biological cell walls-derived porous hollow carbon spheres as a novel battery-type electrode for hybrid supercapacitor. <i>Journal of Materials Science</i> , 2020, 55, 14431-14446.	3.7	56
29	Quantitative imaging of element spatial distribution in the brain section of a mouse model of Alzheimer's disease using synchrotron radiation X-ray fluorescence analysis. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 328-333.	3.0	54
30	Graphene oxide as an anaerobic membrane scaffold for the enhancement of <i>B. adolescentis</i> proliferation and antagonistic effects against pathogens <i>E. coli</i> and <i>S. aureus</i> . <i>Nanotechnology</i> , 2014, 25, 165101.	2.6	50
31	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.	2.4	48
32	Interrogating the variation of element masses and distribution patterns in single cells using ICP-MS with a high efficiency cell introduction system. <i>Analytical and Bioanalytical Chemistry</i> , 2017, 409, 1415-1423.	3.7	45
33	Oral magnetite nanoparticles disturb the development of <i>Drosophila melanogaster</i> from oogenesis to adult emergence. <i>Nanotoxicology</i> , 2015, 9, 302-312.	3.0	43
34	Quantitative analysis of Gd@C ₈₂ (OH) ₂₂ and cisplatin uptake in single cells by inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 2383-2391.	3.7	42
35	Acute Oral Administration of Single-Walled Carbon Nanotubes Increases Intestinal Permeability and Inflammatory Responses: Association with the Changes in Gut Microbiota in Mice. <i>Advanced Healthcare Materials</i> , 2018, 7, e1701313.	7.6	40
36	Metallomics insights for in vivo studies of metal based nanomaterials. <i>Metallomics</i> , 2013, 5, 793.	2.4	37

#	ARTICLE	IF	CITATIONS
37	Microwave absorption properties of microporous CoNi@(NiO-CoO) nanoparticles through dealloying. <i>Journal of Magnetism and Magnetic Materials</i> , 2020, 503, 166631.	2.3	33
38	New methods for nanotoxicology: synchrotron radiation-based techniques. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 667-676.	3.7	32
39	Single-Cell Isotope Dilution Analysis with LA-ICP-MS: A New Approach for Quantification of Nanoparticles in Single Cells. <i>Analytical Chemistry</i> , 2020, 92, 14339-14345.	6.5	30
40	Probing the interaction at nano-bio interface using synchrotron radiation-based analytical techniques. <i>Science China Chemistry</i> , 2015, 58, 768-779.	8.2	28
41	Determination of silver nanoparticles in single cells by microwell trapping and laser ablation ICP-MS determination. <i>Journal of Analytical Atomic Spectrometry</i> , 2019, 34, 915-921.	3.0	23
42	Adsorption and oxidation of SO ₂ on the surface of TiO ₂ nanoparticles: the role of terminal hydroxyl and oxygen vacancy-Ti ³⁺ states. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 9943-9953.	2.8	21
43	Investigation of mercury-containing proteins by enriched stable isotopic tracer and size-exclusion chromatography hyphenated to inductively coupled plasma-isotope dilution mass spectrometry. <i>Analytica Chimica Acta</i> , 2007, 583, 84-91.	5.4	20
44	Immunogold labeling and X-ray fluorescence microscopy reveal enrichment ratios of Cu and Zn, metabolism of APP and amyloid- β^2 plaque formation in a mouse model of Alzheimer's disease. <i>Metallomics</i> , 2012, 4, 1113.	2.4	20
45	miR-185 enhances the inhibition of proliferation and migration induced by ionizing radiation in melanoma. <i>Oncology Letters</i> , 2017, 13, 2442-2448.	1.8	20
46	Quantification of proteins using lanthanide labeling and HPLC/ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1233.	3.0	19
47	Coculture with Low-Dose SWCNT Attenuates Bacterial Invasion and Inflammation in Human Enterocyte-like Caco-2 Cells. <i>Small</i> , 2015, 11, 4366-4378.	10.0	18
48	Chirality of Graphene Oxide-Humic Acid Sandwich Complex Induced by a Twisted, Long-Range-Ordered Nanostructure. <i>Journal of Physical Chemistry C</i> , 2016, 120, 25789-25795.	3.1	17
49	Magnetic Fe ₃ O ₄ nanoparticle catalyzed chemiluminescence for detection of nitric oxide in living cells. <i>Analytical and Bioanalytical Chemistry</i> , 2016, 408, 5479-5488.	3.7	16
50	Iron oxide nanoparticles aggravate hepatic steatosis and liver injury in nonalcoholic fatty liver disease through BMP-SMAD-mediated hepatic iron overload. <i>Nanotoxicology</i> , 2021, 15, 761-778.	3.0	16
51	Polyvinylpyrrolidone functionalization induces deformable structure of graphene oxide nanosheets for lung-targeting delivery. <i>Nano Today</i> , 2021, 38, 101151.	11.9	16
52	In vivo pharmacokinetics, transfer and clearance study of graphene oxide by La/Ce dual elemental labelling method. <i>NanoImpact</i> , 2020, 17, 100213.	4.5	15
53	Dielectric parameters of activated carbon derived from rosewood and corncob. <i>Journal of Materials Science: Materials in Electronics</i> , 2020, 31, 18077-18084.	2.2	14
54	Hepatic impacts of gold nanoparticles with different surface coatings as revealed by assessing the hepatic drug-metabolizing enzyme and lipid homeostasis in mice. <i>NanoImpact</i> , 2020, 20, 100259.	4.5	12

#	ARTICLE	IF	CITATIONS
55	Transferrin Adsorbed on PEGylated Gold Nanoparticles and Its Relevance to Targeting Specificity. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5306-5313.	0.9	11
56	Determination of Mercury in Fish by Isotope Dilution Inductively Coupled Plasma-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2007, 35, 945-948.	1.7	10
57	Laser ablation-single particle-inductively coupled plasma mass spectrometry as a sensitive tool for bioimaging of silver nanoparticles in vivo degradation. <i>Chinese Chemical Letters</i> , 2022, 33, 3484-3487.	9.0	10
58	Structure and catalytic activities of ferrous centers confined on the interface between carbon nanotubes and humic acid. <i>Nanoscale</i> , 2015, 7, 2651-2658.	5.6	7
59	Elemental analysis and imaging of sunscreen fingermarks by X-ray fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 4151-4157.	3.7	7
60	Chemical Analysis and Imaging of Fingerprints by Air-flow Assisted Desorption Electrospray Ionization Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , 2019, 47, 1909-1914.	1.7	5
61	Multiscale Synchrotron-Based Imaging Analysis for the Transfer of PEGylated Gold Nanoparticles In Vivo. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 1462-1474.	5.2	5
62	Measurement of protein size in concentrated solutions by small angle X-ray scattering. <i>Protein Science</i> , 2016, 25, 1385-1389.	7.6	4
63	Inhibition of Lysozyme Fibrillation by Gold Nanorods and Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 3087-3094.	0.9	4
64	Gold Nanoparticles Modified With Polyethyleneimine Disturbed the Activity of Drug-Metabolic Enzymes and Induced Inflammation-Mediated Liver Injury in Mice. <i>Frontiers in Pharmacology</i> , 2021, 12, 706791.	3.5	4
65	Transverse emittance measurement for the heavy ion medical machine cyclotron. <i>Nuclear Science and Techniques/Hewuli</i> , 2019, 30, 1.	3.4	2
66	Preparation and in vivo bacteriostatic application of PPDO-coated Ag loading TiO ₂ nanoparticles. <i>Scientific Reports</i> , 2022, 12, .	3.3	2
67	Thermal Unfolding Process of Lysozyme on PEGylated Gold Nanoparticles Reveals Length-Dependent Effects of PEG Layer. <i>Journal of Nanoscience and Nanotechnology</i> , 2018, 18, 5542-5550.	0.9	1
68	Gut Microbiota: Acute Oral Administration of Single-Walled Carbon Nanotubes Increases Intestinal Permeability and Inflammatory Responses: Association with the Changes in Gut Microbiota in Mice (Adv. Healthcare Mater. 13/2018). <i>Advanced Healthcare Materials</i> , 2018, 7, 1870053.	7.6	0
69	Interaction of Humic Acid with Graphene Oxide: Relation to Antibacterial Activities Against <i>Escherichia coli</i> . <i>Journal of Nanoscience and Nanotechnology</i> , 2021, 21, 1430-1438.	0.9	0