

# Bing Wang

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69

papers

4,061

citations

31

h-index

63

g-index

72

ext. papers

4,680

ext. citations

6.1

avg, IF

5.18

L-index

#	Paper	IF	Citations
69	Interface-confined ferrous centers for catalytic oxidation. <i>Science</i> , <b>2010</b> , 328, 1141-4	33.3	743
68	Metabolism of nanomaterials in vivo: blood circulation and organ clearance. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 761-9	24.3	336
67	Acute toxicological impact of nano- and submicro-scaled zinc oxide powder on healthy adult mice. <i>Journal of Nanoparticle Research</i> , <b>2008</b> , 10, 263-276	2.3	276
66	Acute toxicity of nano- and micro-scale zinc powder in healthy adult mice. <i>Toxicology Letters</i> , <b>2006</b> , 161, 115-23	4.4	232
65	Comparative study of pulmonary responses to nano- and submicron-sized ferric oxide in rats. <i>Toxicology</i> , <b>2008</b> , 247, 102-11	4.4	214
64	Broad-spectrum antibacterial activity of carbon nanotubes to human gut bacteria. <i>Small</i> , <b>2013</b> , 9, 2735-46	4.1	185
63	Endothelial dysfunction and inflammation induced by iron oxide nanoparticle exposure: Risk factors for early atherosclerosis. <i>Toxicology Letters</i> , <b>2011</b> , 203, 162-71	4.4	169
62	Particokinetics and extrapulmonary translocation of intratracheally instilled ferric oxide nanoparticles in rats and the potential health risk assessment. <i>Toxicological Sciences</i> , <b>2009</b> , 107, 342-51	4.4	163
61	Transport of intranasally instilled fine Fe <sub>2</sub> O <sub>3</sub> particles into the brain: micro-distribution, chemical states, and histopathological observation. <i>Biological Trace Element Research</i> , <b>2007</b> , 118, 233-43	4.5	123
60	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> , <b>2013</b> , 117, 383-392	3.8	106
59	Microglial activation, recruitment and phagocytosis as linked phenomena in ferric oxide nanoparticle exposure. <i>Toxicology Letters</i> , <b>2011</b> , 205, 26-37	4.4	95
58	The effects of orally administered Ag, TiO <sub>2</sub> and SiO <sub>2</sub> nanoparticles on gut microbiota composition and colitis induction in mice. <i>NanoImpact</i> , <b>2017</b> , 8, 80-88	5.6	93
57	Neurotoxicity of low-dose repeatedly intranasal instillation of nano- and submicron-sized ferric oxide particles in mice. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 41-53	2.3	92
56	Nanosurface chemistry and dose govern the bioaccumulation and toxicity of carbon nanotubes, metal nanomaterials and quantum dots in vivo. <i>Science Bulletin</i> , <b>2015</b> , 60, 3-20	10.6	85
55	Quantitative analysis of proteins via sulfur determination by HPLC coupled to isotope dilution ICPMS with a hexapole collision cell. <i>Analytical Chemistry</i> , <b>2007</b> , 79, 9128-34	7.8	72
54	Phase and morphology evolution of high dielectric CoO/Co <sub>3</sub> O <sub>4</sub> particles with Co <sub>3</sub> O <sub>4</sub> nanoneedles on surface for excellent microwave absorption application. <i>Chemical Engineering Journal</i> , <b>2020</b> , 396, 125203	14.7	66
53	Quantitative analysis of gold nanoparticles in single cells by laser ablation inductively coupled plasma-mass spectrometry. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 10252-6	7.8	58

52	Time-resolved ICP-MS analysis of mineral element contents and distribution patterns in single cells. <i>Analyst, The</i> , <b>2015</b> , 140, 523-31	5	52
51	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> , <b>2017</b> , 7, 43126	4.9	47
50	Determination of quantum dots in single cells by inductively coupled plasma mass spectrometry. <i>Talanta</i> , <b>2013</b> , 116, 782-7	6.2	47
49	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> , <b>2010</b> , 25, 328-333	3.7	46
48	TiN/Al <sub>2</sub> O <sub>3</sub> binary ceramics for negative permittivity metamaterials at kHz frequencies. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 855, 157499	5.7	41
47	Graphene oxide as an anaerobic membrane scaffold for the enhancement of B. adolescentis proliferation and antagonistic effects against pathogens E. coli and S. aureus. <i>Nanotechnology</i> , <b>2014</b> , 25, 165101	3.4	39
46	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> , <b>2012</b> , 4, 289-96	4.5	38
45	MnO <sub>2</sub> /Carbon Composites for Supercapacitor: Synthesis and Electrochemical Performance. <i>Frontiers in Materials</i> , <b>2020</b> , 7,	4	37
44	Immunological Responses Induced by Blood Protein Coronas on Two-Dimensional MoS Nanosheets. <i>ACS Nano</i> , <b>2020</b> , 14, 5529-5542	16.7	35
43	Recent advances in hydrogen generation process via hydrolysis of Mg-based materials: A short review. <i>Journal of Alloys and Compounds</i> , <b>2020</b> , 816, 152634	5.7	35
42	One-step synthesis of the reduced graphene oxide@NiO composites for supercapacitor electrodes by electrode-assisted plasma electrolysis. <i>Materials and Design</i> , <b>2020</b> , 196, 109111	8.1	34
41	Metallomics insights for in vivo studies of metal based nanomaterials. <i>Metallomics</i> , <b>2013</b> , 5, 793-803	4.5	33
40	Quantitative analysis of Gd@C <sub>82</sub> (OH) <sub>22</sub> and cisplatin uptake in single cells by inductively coupled plasma mass spectrometry. <i>Analytical and Bioanalytical Chemistry</i> , <b>2015</b> , 407, 2383-91	4.4	32
39	Oral magnetite nanoparticles disturb the development of Drosophila melanogaster from oogenesis to adult emergence. <i>Nanotoxicology</i> , <b>2015</b> , 9, 302-12	5.3	32
38	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> , <b>2017</b> , 409, 1415-1423	4.4	29
37	New methods for nanotoxicology: synchrotron radiation-based techniques. <i>Analytical and Bioanalytical Chemistry</i> , <b>2010</b> , 398, 667-76	4.4	28
36	Microwave absorption properties of microporous CoNi@(NiO-CoO) nanoparticles through dealloying. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2020</b> , 503, 166631	2.8	25
35	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> , <b>2020</b> , 55, 14431-14443	4.3	24

34	First-principles studies in Mg-based hydrogen storage Materials: A review. <i>Energy</i> , <b>2020</b> , 211, 118959	7.9	24
33	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> , <b>2018</b> , 7, e1701313	10.1	22
32	Surface chemistry governs the sub-organ transfer, clearance and toxicity of functional gold nanoparticles in the liver and kidney. <i>Journal of Nanobiotechnology</i> , <b>2020</b> , 18, 45	9.4	21
31	Probing the interaction at nano-bio interface using synchrotron radiation-based analytical techniques. <i>Science China Chemistry</i> , <b>2015</b> , 58, 768-779	7.9	19
30	Quantification of proteins using lanthanide labeling and HPLC/ICP-MS detection. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2011</b> , 26, 1233	3.7	18
29	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> , <b>2007</b> , 583, 84-91	6.6	18
28	Determination of silver nanoparticles in single cells by microwell trapping and laser ablation ICP-MS determination. <i>Journal of Analytical Atomic Spectrometry</i> , <b>2019</b> , 34, 915-921	3.7	17
27	miR-185 enhances the inhibition of proliferation and migration induced by ionizing radiation in melanoma. <i>Oncology Letters</i> , <b>2017</b> , 13, 2442-2448	2.6	15
26	Coculture with Low-Dose SWCNT Attenuates Bacterial Invasion and Inflammation in Human Enterocyte-like Caco-2 Cells. <i>Small</i> , <b>2015</b> , 11, 4366-78	11	15
25	Immunogold labeling and X-ray fluorescence microscopy reveal enrichment ratios of Cu and Zn, metabolism of APP and amyloid- $\beta$ plaque formation in a mouse model of Alzheimer's disease. <i>Metalomics</i> , <b>2012</b> , 4, 1113-8	4.5	15
24	Chirality of Graphene Oxide-Humic Acid Sandwich Complex Induced by a Twisted, Long-Range-Ordered Nanostructure. <i>Journal of Physical Chemistry C</i> , <b>2016</b> , 120, 25789-25795	3.8	14
23	Single-Cell Isotope Dilution Analysis with LA-ICP-MS: A New Approach for Quantification of Nanoparticles in Single Cells. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 14339-14345	7.8	13
22	Magnetic Fe <sub>3</sub> O <sub>4</sub> nanoparticle catalyzed chemiluminescence for detection of nitric oxide in living cells. <i>Analytical and Bioanalytical Chemistry</i> , <b>2016</b> , 408, 5479-88	4.4	12
21	In vivo pharmacokinetics, transfer and clearance study of graphene oxide by La/Ce dual elemental labelling method. <i>NanoImpact</i> , <b>2020</b> , 17, 100213	5.6	11
20	Determination of Mercury in Fish by Isotope Dilution Inductively Coupled Plasma-Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , <b>2007</b> , 35, 945-948	1.6	9
19	Adsorption and oxidation of SO on the surface of TiO nanoparticles: the role of terminal hydroxyl and oxygen vacancy-Ti states. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 9943-9953	3.6	7
18	Transferrin Adsorbed on PEGylated Gold Nanoparticles and Its Relevance to Targeting Specificity. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 5306-5313	1.3	7
17	Elemental analysis and imaging of sunscreen fingermarks by X-ray fluorescence. <i>Analytical and Bioanalytical Chemistry</i> , <b>2019</b> , 411, 4151-4157	4.4	5

16	Structure and catalytic activities of ferrous centers confined on the interface between carbon nanotubes and humic acid. <i>Nanoscale</i> , <b>2015</b> , 7, 2651-8	7.7	5
15	Polyvinylpyrrolidone functionalization induces deformable structure of graphene oxide nanosheets for lung-targeting delivery. <i>Nano Today</i> , <b>2021</b> , 38, 101151	17.9	5
14	Nanotoxicity of Metal Oxide Nanoparticles in Vivo 247-269		4
13	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> , <b>2020</b> , 20, 100259	5.6	4
12	Iron oxide nanoparticles aggravate hepatic steatosis and liver injury in nonalcoholic fatty liver disease through BMP-SMAD-mediated hepatic iron overload. <i>Nanotoxicology</i> , <b>2021</b> , 15, 761-778	5.3	4
11	Measurement of protein size in concentrated solutions by small angle X-ray scattering. <i>Protein Science</i> , <b>2016</b> , 25, 1385-9	6.3	3
10	Chemical Analysis and Imaging of Fingerprints by Air-flow Assisted Desorption Electrospray Ionization Mass Spectrometry. <i>Chinese Journal of Analytical Chemistry</i> , <b>2019</b> , 47, 1909-1914	1.6	3
9	Inhibition of Lysozyme Fibrillation by Gold Nanorods and Nanoparticles. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 3087-3094	1.3	2
8	Dielectric parameters of activated carbon derived from rosewood and corncob. <i>Journal of Materials Science: Materials in Electronics</i> , <b>2020</b> , 31, 18077-18084	2.1	2
7	Multiscale Synchrotron-Based Imaging Analysis for the Transfer of PEGylated Gold Nanoparticles. <i>ACS Biomaterials Science and Engineering</i> , <b>2021</b> , 7, 1462-1474	5.5	2
6	Transverse emittance measurement for the heavy ion medical machine cyclotron. <i>Nuclear Science and Techniques/Hewuli</i> , <b>2019</b> , 30, 1	2.1	1
5	Thermal Unfolding Process of Lysozyme on PEGylated Gold Nanoparticles Reveals Length-Dependent Effects of PEG Layer. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2018</b> , 18, 5542-5550 <sup>1,3</sup>		1
4	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> , <b>2021</b> , 12, 706791	5.6	0
3	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> , <b>2018</b> , 7, 1870053	10.1	
2	Interaction of Humic Acid with Graphene Oxide: Relation to Antibacterial Activities Against. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2021</b> , 21, 1430-1438	1.3	
1	New Methods for Nanotoxicity Analyses: Synchrotron-Radiation-Based Techniques <b>2016</b> , 95-120		