Tian Xia

List of Publications by Year
in descending order

196 papers	45,075 citations	7069 78 h-index	2500 196 g-index
203 all docs	203 docs citations	203 times ranked	54977 citing authors

#	Article	IF	Citations
1	Toxic Potential of Materials at the Nanolevel. Science, 2006, 311, 622-627.	6.0	7,944
2	Understanding biophysicochemical interactions at the nanoâ€“bio interface. Nature Materials, 2009, 8, 543-557.	13.3	6,046
3	Guidelines for the use and interpretation of assays for monitoring autophagy (3rd edition). Autophagy, 2016, 12, 1-222.	4.3	4,701
4	Comparison of the Mechanism of Toxicity of Zinc Oxide and Cerium Oxide Nanoparticles Based on Dissolution and Oxidative Stress Properties. ACS Nano, 2008, 2, 2121-2134.	7.3	2,145
5	Multifunctional Inorganic Nanoparticles for Imaging, Targeting, and Drug Delivery. ACS Nano, 2008, 2, 889-896.	7.3	1,758
6	Comparison of the Abilities of Ambient and Manufactured Nanoparticles To Induce Cellular Toxicity According to an Oxidative Stress Paradigm. Nano Letters, 2006, 6, 1794-1807.	4.5	1,675
7	Polyethyleneimine Coating Enhances the Cellular Uptake of Mesoporous Silica Nanoparticles and Allows Safe Delivery of siRNA and DNA Constructs. ACS Nano, 2009, 3, 3273-3286.	7.3	817
8	Engineered Design of Mesoporous Silica Nanoparticles to Deliver Doxorubicin and P-Glycoprotein siRNA to Overcome Drug Resistance in a Cancer Cell Line. ACS Nano, 2010, 4, 4539-4550.	7.3	817
9	The role of oxidative stress in ambient particulate matter-induced lung diseases and its implications in the toxicity of engineered nanoparticles. Free Radical Biology and Medicine, 2008, 44, 1689-1699.	1.3	780
10	Use of Metal Oxide Nanoparticle Band Gap To Develop a Predictive Paradigm for Oxidative Stress and Acute Pulmonary Inflammation. ACS Nano, 2012, 6, 4349-4368.	7.3	718
11	Physicochemical Properties Determine Nanomaterial Cellular Uptake, Transport, and Fate. Accounts of Chemical Research, 2013, 46, 622-631.	7.6	627
12	Cationic Polystyrene Nanosphere Toxicity Depends on Cell-Specific Endocytic and Mitochondrial Injury Pathways. ACS Nano, 2008, 2, 85-96.	7.3	584
13	Autonomous in Vitro Anticancer Drug Release from Mesoporous Silica Nanoparticles by pH-Sensitive Nanovalves. Journal of the American Chemical Society, 2010, 132, 12690-12697.	6.6	550
14	Codelivery of an Optimal Drug/siRNA Combination Using Mesoporous Silica Nanoparticles To Overcome Drug Resistance in Breast Cancer <i>in Vitro</i> and <i>in Vivo</i>. ACS Nano, 2013, 7, 994-1005.	7.3	525
15	Nanomaterial Toxicity Testing in the 21st Century: Use of a Predictive Toxicological Approach and High-Throughput Screening. Accounts of Chemical Research, 2013, 46, 607-621.	7.6	501
16	Use of a Rapid Cytotoxicity Screening Approach To Engineer a Safer Zinc Oxide Nanoparticle through Iron Doping. ACS Nano, 2010, 4, 15-29.	7.3	464
17	Use of Size and a Copolymer Design Feature To Improve the Biodistribution and the Enhanced Permeability and Retention Effect of Doxorubicin-Loaded Mesoporous Silica Nanoparticles in a Murine Xenograft Tumor Model. ACS Nano, 2011, 5, 4131-4144.	7.3	446
18	Potential Health Impact of Nanoparticles. Annual Review of Public Health, 2009, 30, 137-150.	7.6	374

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19	Processing Pathway Dependence of Amorphous Silica Nanoparticle Toxicity: Colloidal vs Pyrolytic. Journal of the American Chemical Society, 2012, 134, 15790-15804.	6.6	372
20	Quinones and Aromatic Chemical Compounds in Particulate Matter Induce Mitochondrial Dysfunction: Implications for Ultrafine Particle Toxicity. Environmental Health Perspectives, 2004, 112, 1347-1358.	2.8	369
21	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.	7.3	347
22	Role of Fe Doping in Tuning the Band Gap of TiO₂ for the Photo-Oxidation-Induced Cytotoxicity Paradigm. Journal of the American Chemical Society, 2011, 133, 11270-11278.	6.6	346
23	Decreased Dissolution of ZnO by Iron Doping Yields Nanoparticles with Reduced Toxicity in the Rodent Lung and Zebrafish Embryos. ACS Nano, 2011, 5, 1223-1235.	7.3	341
24	Aspect Ratio Determines the Quantity of Mesoporous Silica Nanoparticle Uptake by a Small GTPase-Dependent Macropinocytosis Mechanism. ACS Nano, 2011, 5, 4434-4447.	7.3	330
25	Designed Synthesis of CeO₂ Nanorods and Nanowires for Studying Toxicological Effects of High Aspect Ratio Nanomaterials. ACS Nano, 2012, 6, 5366-5380.	7.3	323
26	Surface Defects on Plate-Shaped Silver Nanoparticles Contribute to Its Hazard Potential in a Fish Gill Cell Line and Zebrafish Embryos. ACS Nano, 2012, 6, 3745-3759.	7.3	318
27	Use of a High-Throughput Screening Approach Coupled with <i>In Vivo</i> Zebrafish Embryo Screening To Develop Hazard Ranking for Engineered Nanomaterials. ACS Nano, 2011, 5, 1805-1817.	7.3	306
28	A Predictive Toxicological Paradigm for the Safety Assessment of Nanomaterials. ACS Nano, 2009, 3, 1620-1627.	7.3	303
29	Dispersion and Stability Optimization of TiO₂ Nanoparticles in Cell Culture Media. Environmental Science & Technology, 2010, 44, 7309-7314.	4.6	288
30	Surface Charge and Cellular Processing of Covalently Functionalized Multiwall Carbon Nanotubes Determine Pulmonary Toxicity. ACS Nano, 2013, 7, 2352-2368.	7.3	265
31	Use of Coated Silver Nanoparticles to Understand the Relationship of Particle Dissolution and Bioavailability to Cell and Lung Toxicological Potential. Small, 2014, 10, 385-398.	5.2	242
32	Graphene Oxide Induces Toll-like Receptor 4 (TLR4)-Dependent Necrosis in Macrophages. ACS Nano, 2013, 7, 5732-5745.	7.3	229
33	Surface Oxidation of Graphene Oxide Determines Membrane Damage, Lipid Peroxidation, and Cytotoxicity in Macrophages in a Pulmonary Toxicity Model. ACS Nano, 2018, 12, 1390-1402.	7.3	221
34	Surface Interactions with Compartmentalized Cellular Phosphates Explain Rare Earth Oxide Nanoparticle Hazard and Provide Opportunities for Safer Design. ACS Nano, 2014, 8, 1771-1783.	7.3	212
35	Engineering an Effective Immune Adjuvant by Designed Control of Shape and Crystallinity of Aluminum Oxyhydroxide Nanoparticles. ACS Nano, 2013, 7, 10834-10849.	7.3	192
36	A work group report on ultrafine particles (American Academy of Allergy, Asthma & Immunology): Why ambient ultrafine and engineered nanoparticles should receive special attention for possible adverse health outcomes in human subjects. Journal of Allergy and Clinical Immunology, 2016, 138, 386-396.	1.5	190

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37	Dispersal State of Multiwalled Carbon Nanotubes Elicits Profibrogenic Cellular Responses That Correlate with Fibrogenesis Biomarkers and Fibrosis in the Murine Lung. ACS Nano, 2011, 5, 9772-9787.	7.3	178
38	High Content Screening in Zebrafish Speeds up Hazard Ranking of Transition Metal Oxide Nanoparticles. ACS Nano, 2011, 5, 7284-7295.	7.3	176
39	Interlaboratory Evaluation of <i>in Vitro</i> Cytotoxicity and Inflammatory Responses to Engineered Nanomaterials: The NIEHS Nano GO Consortium. Environmental Health Perspectives, 2013, 121, 683-690.	2.8	176
40	Mesoporous Silica Nanoparticles for Cancer Therapy: Energy-Dependent Cellular Uptake and Delivery of Paclitaxel to Cancer Cells. Nanobiotechnology, 2007, 3, 89-95.	1.2	175
41	Identification and Optimization of Carbon Radicals on Hydrated Graphene Oxide for Ubiquitous Antibacterial Coatings. ACS Nano, 2016, 10, 10966-10980.	7.3	172
42	NLRP3 Inflammasome Activation Induced by Engineered Nanomaterials. Small, 2013, 9, 1595-1607.	5.2	166
43	Organ-Specific and Size-Dependent Ag Nanoparticle Toxicity in Gills and Intestines of Adult Zebrafish. ACS Nano, 2015, 9, 9573-9584.	7.3	164
44	Pluronic F108 Coating Decreases the Lung Fibrosis Potential of Multiwall Carbon Nanotubes by Reducing Lysosomal Injury. Nano Letters, 2012, 12, 3050-3061.	4.5	159
45	Propertyâ€“Activity Relationship of Black Phosphorus at the Nanoâ€“Bio Interface: From Molecules to Organisms. Chemical Reviews, 2020, 120, 2288-2346.	23.0	158
46	Cationic polystyrene nanospheres induce autophagic cell death through the induction of endoplasmic reticulum stress. Nanoscale, 2015, 7, 736-746.	2.8	154
47	No time to loseâ€"high throughput screening to assess nanomaterial safety. Nanoscale, 2011, 3, 1345.	2.8	153
48	Quantitative Techniques for Assessing and Controlling the Dispersion and Biological Effects of Multiwalled Carbon Nanotubes in Mammalian Tissue Culture Cells. ACS Nano, 2010, 4, 7241-7252.	7.3	151
49	NADPH Oxidase-Dependent NLRP3 Inflammasome Activation and its Important Role in Lung Fibrosis by Multiwalled Carbon Nanotubes. Small, 2015, 11, 2087-2097.	5.2	149
50	On the issue of transparency and reproducibility in nanomedicine. Nature Nanotechnology, 2019, 14, 629-635.	15.6	149
51	The Fate of ZnO Nanoparticles Administered to Human Bronchial Epithelial Cells. ACS Nano, 2012, 6, 4921-4930.	7.3	146
52	Nanomaterials in the Environment: From Materials to High-Throughput Screening to Organisms. ACS Nano, 2011, 5, 13-20.	7.3	145
53	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. Angewandte Chemie - International Edition, 2017, 56, 14488-14493.	7.2	143
54	Interference in Autophagosome Fusion by Rare Earth Nanoparticles Disrupts Autophagic Flux and Regulation of an Interleukin-1Î² Producing Inflammasome. ACS Nano, 2014, 8, 10280-10292.	7.3	142

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55	Toxicological Profiling of Metal Oxide Nanoparticles in Liver Context Reveals Pyroptosis in Kupffer Cells and Macrophages <i>versus</i> Apoptosis in Hepatocytes. ACS Nano, 2018, 12, 3836-3852.	7.3	141
56	PdO Doping Tunes Band-Gap Energy Levels as Well as Oxidative Stress Responses to a Co₃O₄ <i>p</i>-Type Semiconductor in Cells and the Lung. Journal of the American Chemical Society, 2014, 136, 6406-6420.	6.6	136
57	Enhancing the Imaging and Biosafety of Upconversion Nanoparticles through Phosphonate Coating. ACS Nano, 2015, 9, 3293-3306.	7.3	130
58	Silver Nanoparticles Induced RNA Polymerase-Silver Binding and RNA Transcription Inhibition in Erythroid Progenitor Cells. ACS Nano, 2013, 7, 4171-4186.	7.3	128
59	Cadmium directly induced the opening of membrane permeability pore of mitochondria which possibly involved in cadmium-triggered apoptosis. Toxicology, 2003, 194, 19-33.	2.0	124
60	Development of structureâ€“activity relationship for metal oxide nanoparticles. Nanoscale, 2013, 5, 5644.	2.8	120
61	Zebrafish Highâ€Throughput Screening to Study the Impact of Dissolvable Metal Oxide Nanoparticles on the Hatching Enzyme, ZHE1. Small, 2013, 9, 1776-1785.	5.2	112
62	Graphene Oxide Induced Perturbation to Plasma Membrane and Cytoskeletal Meshwork Sensitize Cancer Cells to Chemotherapeutic Agents. ACS Nano, 2017, 11, 2637-2651.	7.3	110
63	Mechanisms of nanosilver-induced toxicological effects: more attention should be paid to its sublethal effects. Nanoscale, 2015, 7, 7470-7481.	2.8	109
64	Reduction of Acute Inflammatory Effects of Fumed Silica Nanoparticles in the Lung by Adjusting Silanol Display through Calcination and Metal Doping. ACS Nano, 2015, 9, 9357-9372.	7.3	108
65	Impairment of mitochondrial function by particulate matter (PM) and their toxic components: implications for PM-induced cardiovascular and lung disease. Frontiers in Bioscience - Landmark, 2007, 12, 1238.	3.0	108
66	Use of a Pro-Fibrogenic Mechanism-Based Predictive Toxicological Approach for Tiered Testing and Decision Analysis of Carbonaceous Nanomaterials. ACS Nano, 2015, 9, 3032-3043.	7.3	107
67	Safe-by-Design CuO Nanoparticles<i>via</i>Fe-Doping, Cuâ€“O Bond Length Variation, and Biological Assessment in Cells and Zebrafish Embryos. ACS Nano, 2017, 11, 501-515.	7.3	107
68	Differences in the Toxicological Potential of 2D versus Aggregated Molybdenum Disulfide in the Lung. Small, 2015, 11, 5079-5087.	5.2	105
69	Aspect Ratio Plays a Role in the Hazard Potential of CeO₂ Nanoparticles in Mouse Lung and Zebrafish Gastrointestinal Tract. ACS Nano, 2014, 8, 4450-4464.	7.3	98
70	Nanomaterial-based vaccine adjuvants. Journal of Materials Chemistry B, 2016, 4, 5496-5509.	2.9	96
71	Nanosilver Incurs an Adaptive Shunt of Energy Metabolism Mode to Glycolysis in Tumor and Nontumor Cells. ACS Nano, 2014, 8, 5813-5825.	7.3	92
72	Response of MicroRNAs to <i>In Vitro</i> Treatment with Graphene Oxide. ACS Nano, 2014, 8, 2100-2110.	7.3	91

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73	Where Are We Heading in Nanotechnology Environmental Health and Safety and Materials Characterization?. ACS Nano, 2015, 9, 5627-5630.	7.3	91
74	Liposomal Delivery of Mitoxantrone and a Cholesteryl Indoximod Prodrug Provides Effective Chemo-immunotherapy in Multiple Solid Tumors. ACS Nano, 2020, 14, 13343-13366.	7.3	91
75	Multifunctional polycationic photosensitizer conjugates with rich hydroxyl groups for versatile water-soluble photodynamic therapy nanoplatforms. Biomaterials, 2017, 117, 77-91.	5.7	88
76	Differential Expression of Syndecan-1 Mediates Cationic Nanoparticle Toxicity in Undifferentiated versus Differentiated Normal Human Bronchial Epithelial Cells. ACS Nano, 2011, 5, 2756-2769.	7.3	86
77	Engineered Graphene Oxide Nanocomposite Capable of Preventing the Evolution of Antimicrobial Resistance. ACS Nano, 2019, 13, 11488-11499.	7.3	84
78	Interlaboratory comparison of size and surface charge measurements on nanoparticles prior to biological impact assessment. Journal of Nanoparticle Research, 2011, 13, 2675-2687.	0.8	83
79	Pulmonary diseases induced by ambient ultrafine and engineered nanoparticles in twenty-first century. National Science Review, 2016, 3, 416-429.	4.6	82
80	Assessing and Mitigating the Hazard Potential of Two-Dimensional Materials. ACS Nano, 2018, 12, 6360-6377.	7.3	78
81	Use of Polymeric Nanoparticle Platform Targeting the Liver To Induce Treg-Mediated Antigen-Specific Immune Tolerance in a Pulmonary Allergen Sensitization Model. ACS Nano, 2019, 13, 4778-4794.	7.3	78
82	Nanotoxicology and nanomedicine: The Yin and Yang of nano-bio interactions for the new decade. Nano Today, 2021, 39, 101184.	6.2	67
83	Evaluation of Toxicity Ranking for Metal Oxide Nanoparticles <i>via</i> an <i>in Vitro</i> Dosimetry Model. ACS Nano, 2015, 9, 9303-9313.	7.3	65
84	<i>In situ</i>remediation of subsurface contamination: opportunities and challenges for nanotechnology and advanced materials. Environmental Science: Nano, 2019, 6, 1283-1302.	2.2	65
85	The role of reactive oxygen species and oxidative stress in mediating particulate matter injury. Clinics in Occupational and Environmental Medicine, 2006, 5, 817-36.	0.5	62
86	Comparative Toxicity of C₆₀ Aggregates toward Mammalian Cells: Role of Tetrahydrofuran (THF) Decomposition. Environmental Science & Technology, 2009, 43, 6378-6384.	4.6	61
87	Reduction of pulmonary toxicity of metal oxide nanoparticles by phosphonate-based surface passivation. Particle and Fibre Toxicology, 2017, 14, 13.	2.8	61
88	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structureâ€"Activity Relationships and Biopersistence in the Lung. ACS Nano, 2016, 10, 8054-8066.	7.3	58
89	Molybdenum disulfide/graphene oxide nanocomposites show favorable lung targeting and enhanced drug loading/tumor-killing efficacy with improved biocompatibility. NPG Asia Materials, 2018, 10, e458-e458.	3.8	58
90	Metabolomics and transcriptomics profiles reveal the dysregulation of the tricarboxylic acid cycle and related mechanisms in prostate cancer. International Journal of Cancer, 2018, 143, 396-407.	2.3	57

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91	A study on permeability transition pore opening and cytochromecrelease from mitochondria, induced by caspase-3 in vitro. FEBS Letters, 2002, 510, 62-66.	1.3	53
92	Characterization of Electronic Cigarette Aerosol and Its Induction of Oxidative Stress Response in Oral Keratinocytes. PLoS ONE, 2016, 11, e0154447.	1.1	52
93	Effective Codelivery of lncRNA and pDNA by Pullulanâ€Based Nanovectors for Promising Therapy of Hepatocellular Carcinoma. Advanced Functional Materials, 2016, 26, 7314-7325.	7.8	51
94	Effects of Electronic Cigarettes on Indoor Air Quality and Health. Annual Review of Public Health, 2020, 41, 363-380.	7.6	51
95	Understanding Nanomaterialâ€"Liver Interactions to Facilitate the Development of Safer Nanoapplications. Advanced Materials, 2022, 34, e2106456.	11.1	51
96	Automated Phenotype Recognition for Zebrafish Embryo Based In Vivo High Throughput Toxicity Screening of Engineered Nano-Materials. PLoS ONE, 2012, 7, e35014.	1.1	50
97	Toxicological Profiling of Highly Purified Metallic and Semiconducting Single-Walled Carbon Nanotubes in the Rodent Lung and <i>E. coli</i>. ACS Nano, 2016, 10, 6008-6019.	7.3	49
98	Bioaccumulation of ¹⁴C-Labeled Graphene in an Aquatic Food Chain through Direct Uptake or Trophic Transfer. Environmental Science & Technology, 2018, 52, 541-549.	4.6	49
99	USP10 suppresses tumor progression by inhibiting mTOR activation in hepatocellular carcinoma. Cancer Letters, 2018, 436, 139-148.	3.2	49
100	The Crystallinity and Aspect Ratio of Cellulose Nanomaterials Determine Their Proâ€Inflammatory and Immune Adjuvant Effects In Vitro and In Vivo. Small, 2019, 15, e1901642.	5.2	48
101	Predictive Metabolomic Signatures for Safety Assessment of Metal Oxide Nanoparticles. ACS Nano, 2019, 13, 13065-13082.	7.3	47
102	Enhanced Immune Adjuvant Activity of Aluminum Oxyhydroxide Nanorods through Cationic Surface Functionalization. ACS Applied Materials & Interfaces, 2017, 9, 21697-21705.	4.0	46
103	Transformation of ¹⁴Câ€Labeled Graphene to ¹⁴CO₂ in the Shoots of a Rice Plant. Angewandte Chemie - International Edition, 2018, 57, 9759-9763.	7.2	46
104	Lateral size of graphene oxide determines differential cellular uptake and cell death pathways in Kupffer cells, LSECs, and hepatocytes. Nano Today, 2021, 37, 101061.	6.2	46
105	Structure activity relationships of engineered nanomaterials in inducing NLRP3 inflammasome activation and chronic lung fibrosis. NanoImpact, 2017, 6, 99-108.	2.4	44
106	Particles slip cell security. Nature Materials, 2008, 7, 519-520.	13.3	43
107	Graphene Oxide Promotes Cancer Metastasis through Associating with Plasma Membrane To Promote TGF-Î² Signaling-Dependent Epithelialâ€"Mesenchymal Transition. ACS Nano, 2020, 14, 818-827.	7.3	43
108	Mammalian Cells Exhibit a Range of Sensitivities to Silver Nanoparticles that are Partially Explicable by Variations in Antioxidant Defense and Metallothionein Expression. Small, 2015, 11, 3797-3805.	5.2	42

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109	Viscoelastic phase behavior in SBS modified bitumen studied by morphology evolution and viscoelasticity change. Construction and Building Materials, 2016, 105, 589-594.	3.2	41
110	Mechanistic Differences in Cell Death Responses to Metalâ€Based Engineered Nanomaterials in Kupffer Cells and Hepatocytes. Small, 2020, 16, e2000528.	5.2	41
111	Environmental Impacts by Fragments Released from Nanoenabled Products: A Multiassay, Multimaterial Exploration by the SUN Approach. Environmental Science & Technology, 2018, 52, 1514-1524.	4.6	36
112	Rare earth oxide nanoparticles promote soil microbial antibiotic resistance by selectively enriching antibiotic resistance genes. Environmental Science: Nano, 2019, 6, 456-466.	2.2	36
113	Antigen- and Epitope-Delivering Nanoparticles Targeting Liver Induce Comparable Immunotolerance in Allergic Airway Disease and Anaphylaxis as Nanoparticle-Delivering Pharmaceuticals. ACS Nano, 2021, 15, 1608-1626.	7.3	36
114	E-Cigarettes and Cardiopulmonary Health. Function, 2021, 2, zqab004.	1.1	36
115	Adaption/resistance to antimicrobial nanoparticles: Will it be a problem?. Nano Today, 2020, 34, 100909.	6.2	33
116	Continued Efforts on Nanomaterialâ€Environmental Health and Safety Is Critical to Maintain Sustainable Growth of Nanoindustry. Small, 2020, 16, e2000603.	5.2	33
117	Implementation of a Multidisciplinary Approach to Solve Complex Nano EHS Problems by the UC Center for the Environmental Implications of Nanotechnology. Small, 2013, 9, 1428-1443.	5.2	32
118	Facilitating Translational Nanomedicine via Predictive Safety Assessment. Molecular Therapy, 2017, 25, 1522-1530.	3.7	31
119	The biotransformation of graphene oxide in lung fluids significantly alters its inherent properties and bioactivities toward immune cells. NPG Asia Materials, 2018, 10, 385-396.	3.8	31
120	Rheology and thermal stability of polymer modified bitumen with coexistence of amorphous phase and crystalline phase. Construction and Building Materials, 2018, 178, 272-279.	3.2	31
121	Metabolomics profiling of metformin-mediated metabolic reprogramming bypassing AMPKÎ±. Metabolism: Clinical and Experimental, 2019, 91, 18-29.	1.5	30
122	Binding of Benzo[<i>a</i>]pyrene Alters the Bioreactivity of Fine Biochar Particles toward Macrophages Leading to Deregulated Macrophagic Defense and Autophagy. ACS Nano, 2021, 15, 9717-9731.	7.3	29
123	Kupffer Cells Degrade ¹⁴C-Labeled Few-Layer Graphene to ¹⁴CO₂ in Liver through Erythrophagocytosis. ACS Nano, 2021, 15, 396-409.	7.3	28
124	Inhibitory effects of nitric oxide on invasion of human cancer cells. Cancer Letters, 2007, 257, 274-282.	3.2	27
125	Nanocellulose Length Determines the Differential Cytotoxic Effects and Inflammatory Responses in Macrophages and Hepatocytes. Small, 2021, 17, e2102545.	5.2	27
126	Association rule mining of cellular responses induced by metal and metal oxide nanoparticles. Analyst, The, 2014, 139, 943-953.	1.7	26

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127	Differential pulmonary effects of CoO and La2O3 metal oxide nanoparticle responses during aerosolized inhalation in mice. Particle and Fibre Toxicology, 2015, 13, 42.	2.8	26
128	Part II: coordinated biosensors â€“ development of enhanced nanobiosensors for biological and medical applications. Nanomedicine, 2007, 2, 599-614.	1.7	25
129	Current approaches for safer design of engineered nanomaterials. Ecotoxicology and Environmental Safety, 2018, 166, 294-300.	2.9	25
130	Carbon nanotubes stimulate synovial inflammation by inducing systemic pro-inflammatory cytokines. Nanoscale, 2016, 8, 18070-18086.	2.8	23
131	Carbon Nanotubes Disrupt Iron Homeostasis and Induce Anemia of Inflammation through Inflammatory Pathway as a Secondary Effect Distant to Their Portalâ€ofâ€Entry. Small, 2017, 13, 1603830.	5.2	23
132	Nanotechnology: new opportunities for the development of patchâ€clamps. Journal of Nanobiotechnology, 2021, 19, 97.	4.2	23
133	Improved Biocompatibility of Black Phosphorus Nanosheets by Chemical Modification. Angewandte Chemie, 2017, 129, 14680-14685.	1.6	22
134	Electronic cigarette aerosols induce oxidative stress-dependent cell death and NF-Îº B mediated acute lung inflammation in mice. Archives of Toxicology, 2021, 95, 195-205.	1.9	22
135	Molecular Imaging in Tracking Tumor Stem-Like Cells. Journal of Biomedicine and Biotechnology, 2012, 2012, 1-13.	3.0	21
136	Toxicological Profiling of Highly Purified Singleâ€Walled Carbon Nanotubes with Different Lengths in the Rodent Lung and <i>Escherichia Coli</i>. Small, 2018, 14, e1703915.	5.2	21
137	Graphene Oxide Causes Disordered Zonation Due to Differential Intralobular Localization in the Liver. ACS Nano, 2020, 14, 877-890.	7.3	21
138	Chronic Exposure to Titanium Dioxide Nanoparticles Induces Commensal-to-Pathogen Transition in <i>Escherichia coli</i>. Environmental Science & Technology, 2020, 54, 13186-13196.	4.6	21
139	Black phosphorus for fighting antibiotic-resistant bacteria: What is known and what is missing. Science of the Total Environment, 2020, 721, 137740.	3.9	21
140	NLRP3 inflammasome activation determines the fibrogenic potential of PM2.5 air pollution particles in the lung. Journal of Environmental Sciences, 2022, 111, 429-441.	3.2	21
141	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. ACS Nano, 2017, 11, 1869-1883.	7.3	19
142	Transformation of ¹⁴Câ€Labeled Graphene to ¹⁴CO₂ in the Shoots of a Rice Plant. Angewandte Chemie, 2018, 130, 9907-9911.	1.6	19
143	LLGL1 Regulates Gemcitabine Resistance by Modulating the ERK-SP1-OSMR Pathway in Pancreatic Ductal Adenocarcinoma. Cellular and Molecular Gastroenterology and Hepatology, 2020, 10, 811-828.	2.3	19
144	Heterogenous Internalization of Nanoparticles at Ultra-Trace Concentration in Environmental Individual Unicellular Organisms Unveiled by Single-Cell Mass Cytometry. ACS Nano, 2020, 14, 12828-12839.	7.3	18

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145	Palladium nanoplates scotch breast cancer lung metastasis by constraining epithelial-mesenchymal transition. National Science Review, 2021, 8, .	4.6	18
146	Use of Nanoformulation to Target Macrophages for Disease Treatment. Advanced Functional Materials, 2021, 31, 2104487.	7.8	17
147	Implications of the Differential Toxicological Effects of IIIâ€"V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. ACS Nano, 2015, 9, 12011-12025.	7.3	15
148	Nerve Growth Factor-Conjugated Mesoporous Silica Nanoparticles Promote Neuron-Like PC12 Cell Proliferation and Neurite Growth. Journal of Nanoscience and Nanotechnology, 2016, 16, 2390-2393.	0.9	15
149	Use of macrophage as a Trojan horse for cancer nanotheranostics. Materials and Design, 2021, 198, 109388.	3.3	15
150	Dissolution of 2D Molybdenum Disulfide Generates Differential Toxicity among Liver Cell Types Compared to Nonâ€Toxic 2D Boron Nitride Effects. Small, 2021, 17, e2101084.	5.2	15
151	A Bayesian regression tree approach to identify the effect of nanoparticlesâ€™ properties on toxicity profiles. Annals of Applied Statistics, 2015, 9, .	0.5	14
152	Hierarchical Rank Aggregation with Applications to Nanotoxicology. Journal of Agricultural, Biological, and Environmental Statistics, 2013, 18, 159-177.	0.7	13
153	Potential nanoparticle applications for prevention, diagnosis, and treatment of COVIDâ€19. View, 2020, 1, 20200105.	2.7	13
154	Vincristine-loaded platelets coated with anti-CD41 mAbs: a new macrophage targeting proposal for the treatment of immune thrombocytopenia. Biomaterials Science, 2019, 7, 4568-4577.	2.6	12
155	Differential effect of micron- versus nanoscale IIIâ€"V particulates and ionic species on the zebrafish gut. Environmental Science: Nano, 2017, 4, 1350-1364.	2.2	11
156	The Genetic Heterogeneity among Different Mouse Strains Impacts the Lung Injury Potential of Multiwalled Carbon Nanotubes. Small, 2017, 13, 1700776.	5.2	11
157	Creative use of analytical techniques and high-throughput technology to facilitate safety assessment of engineered nanomaterials. Analytical and Bioanalytical Chemistry, 2018, 410, 6097-6111.	1.9	11
158	An integrative pan-cancer analysis of biological and clinical impacts underlying ubiquitin-specific-processing proteases. Oncogene, 2020, 39, 587-602.	2.6	11
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