

Bingbing Sun

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5002495/bingbing-sun-publications-by-citations.pdf>
Version: 2024-04-05

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64 papers	4,128 citations	33 h-index	64 g-index
69 ext. papers	4,834 ext. citations	10.6 avg, IF	5.27 L-index

#	Paper	IF	Citations
64	Processing pathway dependence of amorphous silica nanoparticle toxicity: colloidal vs pyrolytic. <i>Journal of the American Chemical Society</i> , 2012 , 134, 15790-804	16.4	315
63	Designed synthesis of CeO ₂ nanorods and nanowires for studying toxicological effects of high aspect ratio nanomaterials. <i>ACS Nano</i> , 2012 , 6, 5366-80	16.7	275
62	Nano-enabled pancreas cancer immunotherapy using immunogenic cell death and reversing immunosuppression. <i>Nature Communications</i> , 2017 , 8, 1811	17.4	259
61	Surface charge and cellular processing of covalently functionalized multiwall carbon nanotubes determine pulmonary toxicity. <i>ACS Nano</i> , 2013 , 7, 2352-68	16.7	232
60	Use of coated silver nanoparticles to understand the relationship of particle dissolution and bioavailability to cell and lung toxicological potential. <i>Small</i> , 2014 , 10, 385-98	11	207
59	Graphene oxide induces toll-like receptor 4 (TLR4)-dependent necrosis in macrophages. <i>ACS Nano</i> , 2013 , 7, 5732-45	16.7	203
58	Surface interactions with compartmentalized cellular phosphates explain rare earth oxide nanoparticle hazard and provide opportunities for safer design. <i>ACS Nano</i> , 2014 , 8, 1771-83	16.7	177
57	Surface Oxidation of Graphene Oxide Determines Membrane Damage, Lipid Peroxidation, and Cytotoxicity in Macrophages in a Pulmonary Toxicity Model. <i>ACS Nano</i> , 2018 , 12, 1390-1402	16.7	154
56	Engineering an effective immune adjuvant by designed control of shape and crystallinity of aluminum oxyhydroxide nanoparticles. <i>ACS Nano</i> , 2013 , 7, 10834-49	16.7	153
55	Pluronic F108 coating decreases the lung fibrosis potential of multiwall carbon nanotubes by reducing lysosomal injury. <i>Nano Letters</i> , 2012 , 12, 3050-61	11.5	142
54	NLRP3 inflammasome activation induced by engineered nanomaterials. <i>Small</i> , 2013 , 9, 1595-607	11	140
53	Vaccine adjuvants: Understanding the structure and mechanism of adjuvanticity. <i>Vaccine</i> , 2019 , 37, 3167-3178	11	124
52	NADPH Oxidase-Dependent NLRP3 Inflammasome Activation and its Important Role in Lung Fibrosis by Multiwalled Carbon Nanotubes. <i>Small</i> , 2015 , 11, 2087-97	11	123
51	Interference in autophagosome fusion by rare earth nanoparticles disrupts autophagic flux and regulation of an interleukin-1 β -producing inflammasome. <i>ACS Nano</i> , 2014 , 8, 10280-92	16.7	123
50	PdO doping tunes band-gap energy levels as well as oxidative stress responses to a CoO β -type semiconductor in cells and the lung. <i>Journal of the American Chemical Society</i> , 2014 , 136, 6406-20	16.4	114
49	Enhancing the imaging and biosafety of upconversion nanoparticles through phosphonate coating. <i>ACS Nano</i> , 2015 , 9, 3293-306	16.7	113
48	Two-Dimensional Nanomaterials for Cancer Nanotheranostics. <i>Small</i> , 2017 , 13, 1603446	11	97

47	Toxicological Profiling of Metal Oxide Nanoparticles in Liver Context Reveals Pyroptosis in Kupffer Cells and Macrophages versus Apoptosis in Hepatocytes. <i>ACS Nano</i> , 2018 , 12, 3836-3852	16.7	91
46	Use of a pro-fibrogenic mechanism-based predictive toxicological approach for tiered testing and decision analysis of carbonaceous nanomaterials. <i>ACS Nano</i> , 2015 , 9, 3032-43	16.7	90
45	Reduction of Acute Inflammatory Effects of Fumed Silica Nanoparticles in the Lung by Adjusting Silanol Display through Calcination and Metal Doping. <i>ACS Nano</i> , 2015 , 9, 9357-72	16.7	86
44	Differences in the Toxicological Potential of 2D versus Aggregated Molybdenum Disulfide in the Lung. <i>Small</i> , 2015 , 11, 5079-87	11	76
43	Nanomaterial-Based Vaccine Adjuvants. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5496-5509	7.3	61
42	Zwitteration of dextran: a facile route to integrate antifouling, switchability and optical transparency into natural polymers. <i>Chemical Communications</i> , 2014 , 50, 3234-7	5.8	57
41	Adjuvants for Coronavirus Vaccines. <i>Frontiers in Immunology</i> , 2020 , 11, 589833	8.4	56
40	Hepcidin: A Promising Therapeutic Target for Iron Disorders: A Systematic Review. <i>Medicine (United States)</i> , 2016 , 95, e3150	1.8	55
39	Toxicological Profiling of Highly Purified Metallic and Semiconducting Single-Walled Carbon Nanotubes in the Rodent Lung and E. coli. <i>ACS Nano</i> , 2016 , 10, 6008-19	16.7	40
38	Repetitive Dosing of Fumed Silica Leads to Profibrogenic Effects through Unique Structure-Activity Relationships and Biopersistence in the Lung. <i>ACS Nano</i> , 2016 , 10, 8054-66	16.7	40
37	Enabling customization of non-viral gene delivery systems for individual cell types by surface-induced mineralization. <i>Biomaterials</i> , 2009 , 30, 6386-93	15.6	39
36	Characterization of Electronic Cigarette Aerosol and Its Induction of Oxidative Stress Response in Oral Keratinocytes. <i>PLoS ONE</i> , 2016 , 11, e0154447	3.7	38
35	Enhanced Immune Adjuvant Activity of Aluminum Oxyhydroxide Nanorods through Cationic Surface Functionalization. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 21697-21705	9.5	37
34	Effects of particle size on toll-like receptor 9-mediated cytokine profiles. <i>Biomaterials</i> , 2011 , 32, 1731-7	15.6	36
33	Electron Compensation Effect Suppressed Silver Ion Release and Contributed Safety of Au@Ag Core-Shell Nanoparticles. <i>Nano Letters</i> , 2019 , 19, 4478-4489	11.5	33
32	Structure Activity Relationships of Engineered Nanomaterials in inducing NLRP3 Inflammasome Activation and Chronic Lung Fibrosis. <i>NanoImpact</i> , 2017 , 6, 99-108	5.6	33
31	Dextran-peptide hybrid for efficient gene delivery. <i>Langmuir</i> , 2014 , 30, 5202-8	4	32
30	Activation of inflammasomes by tumor cell death mediated by gold nanoshells. <i>Biomaterials</i> , 2012 , 33, 2197-205	15.6	29

29	Predictive Metabolomic Signatures for Safety Assessment of Metal Oxide Nanoparticles. <i>ACS Nano</i> , 2019 , 13, 13065-13082	16.7	28
28	Facilitating Translational Nanomedicine via Predictive Safety Assessment. <i>Molecular Therapy</i> , 2017 , 25, 1522-1530	11.7	25
27	The neurotoxicity induced by engineered nanomaterials. <i>International Journal of Nanomedicine</i> , 2019 , 14, 4167-4186	7.3	24
26	Assessment of neurotoxicity induced by different-sized Stöber silica nanoparticles: induction of pyroptosis in microglia. <i>Nanoscale</i> , 2019 , 11, 12965-12972	7.7	19
25	Pro-Inflammatory and Pro-Fibrogenic Effects of Ionic and Particulate Arsenide and Indium-Containing Semiconductor Materials in the Murine Lung. <i>ACS Nano</i> , 2017 , 11, 1869-1883	16.7	13
24	Implications of the Differential Toxicological Effects of III-V Ionic and Particulate Materials for Hazard Assessment of Semiconductor Slurries. <i>ACS Nano</i> , 2015 , 9, 12011-25	16.7	13
23	Surface Modification of Stöber Silica Nanoparticles with Controlled Moiety Densities Determines Their Cytotoxicity Profiles in Macrophages. <i>Langmuir</i> , 2019 , 35, 14688-14695	4	13
22	Nerve Growth Factor-Conjugated Mesoporous Silica Nanoparticles Promote Neuron-Like PC12 Cell Proliferation and Neurite Growth. <i>Journal of Nanoscience and Nanotechnology</i> , 2016 , 16, 2390-3	1.3	12
21	Activation of resin with controllable ligand density via catalytic oxa-Michael addition and application in antibody purification. <i>Journal of Chromatography A</i> , 2018 , 1570, 1-9	4.5	10
20	Effect of surface chemistry on gene transfer efficiency mediated by surface-induced DNA-doped nanocomposites. <i>Acta Biomaterialia</i> , 2012 , 8, 1109-16	10.8	9
19	Engineering aluminum hydroxyphosphate nanoparticles with well-controlled surface property to enhance humoral immune responses as vaccine adjuvants. <i>Biomaterials</i> , 2021 , 275, 120960	15.6	9
18	Predictive toxicological paradigm and high throughput approach for toxicity screening of engineered nanomaterials. <i>International Journal of Biomedical Nanoscience and Nanotechnology</i> , 2013 , 3, 4	0.2	8
17	A naturally derived dextran-peptide vector for microRNA antagomir delivery. <i>RSC Advances</i> , 2015 , 5, 28019-28022	3.7	7
16	Electronic cigarette aerosols induce oxidative stress-dependent cell death and NF- κ B mediated acute lung inflammation in mice. <i>Archives of Toxicology</i> , 2021 , 95, 195-205	5.8	7
15	A microfluidic manipulator for enrichment and alignment of moving cells and particles. <i>Journal of Biomechanical Engineering</i> , 2009 , 131, 074505	2.1	6
14	New Strategy for Functionalization of Silica Materials via Catalytic Oxa-Michael Reaction of Surface Silanol Groups with Vinyl Sulfones. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9112-9120	8.3	6
13	E-cigarette aerosols induce unfolded protein response in normal human oral keratinocytes. <i>Journal of Cancer</i> , 2019 , 10, 6915-6924	4.5	6
12	Mechanistic understanding of the aspect ratio-dependent adjuvanticity of engineered aluminum oxyhydroxide nanorods in prophylactic vaccines. <i>Nano Today</i> , 2022 , 43, 101445	17.9	6

11	Correlation of the composition of biominerals with their ability of stimulating intracellular DNA sensors and inflammatory cytokines. <i>Biomaterials</i> , 2015 , 54, 106-15	15.6	5
10	Mechanistic Understanding of the Engineered Nanomaterial-Induced Toxicity on Kidney. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-12	3.2	5
9	Response to comment on: Vaccine adjuvants: Understanding the structure and mechanism of adjuvant activity. <i>Vaccine</i> , 2020 , 38, 2759	4.1	1
8	Using MoS ₂ /Fe ₃ O ₄ as Ion-Electron Transduction Layer to Manufacture All-Solid-State Ion-Selective Electrode for Determination of Serum Potassium. <i>Chemosensors</i> , 2021 , 9, 155	4	1
7	Engineered Hydroxyapatite Nanoaddjuvants with Controlled Shape and Aspect Ratios Reveal Their Immunomodulatory Potentials.. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 59662-59672	9.5	1
6	Engineering the hydroxyl content on aluminum oxyhydroxide nanorod for elucidating the antigen adsorption behavior. <i>Npj Vaccines</i> , 2022 , 7,	9.5	1
5	Investigation of mouse hepatitis virus strain A59 inactivation under both ambient and cold environments reveals the mechanisms of infectivity reduction following UVC exposure.. <i>Journal of Environmental Chemical Engineering</i> , 2022 , 10, 107206	6.8	0
4	Design of a Quencher-Free Fluorescent Aptasensor for Ochratoxin A Detection in Red Wine Based on the Guanine-Quenching Ability. <i>Biosensors</i> , 2022 , 12, 297	5.9	0
3	Mechanistic Elucidation of Freezing-Induced Surface Decomposition of Aluminum Oxyhydroxide Adjuvant. <i>IScience</i> , 2022 , 104456	6.1	0
2	Safety Concerns of Industrial Engineered Nanomaterials 2018 , 1063-1072		
1	Controlling Surface-Induced Nanocomposites by Lipoplexes for Enhanced Gene Transfer. <i>Journal of Nanomaterials</i> , 2015 , 2015, 1-13	3.2	