

# Christie M Sayes

## List of Publications by Citations

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105  
papers

9,053  
citations

33  
h-index

95  
g-index

115  
ext. papers

9,746  
ext. citations

5.6  
avg. IF

5.99  
L-index

#	Paper	IF	Citations
105	The Differential Cytotoxicity of Water-Soluble Fullerenes. <i>Nano Letters</i> , <b>2004</b> , 4, 1881-1887	11.5	892
104	Functionalization density dependence of single-walled carbon nanotubes cytotoxicity in vitro. <i>Toxicology Letters</i> , <b>2006</b> , 161, 135-42	4.4	740
103	Correlating nanoscale titania structure with toxicity: a cytotoxicity and inflammatory response study with human dermal fibroblasts and human lung epithelial cells. <i>Toxicological Sciences</i> , <b>2006</b> , 92, 174-85	4.4	688
102	Assessing toxicity of fine and nanoparticles: comparing in vitro measurements to in vivo pulmonary toxicity profiles. <i>Toxicological Sciences</i> , <b>2007</b> , 97, 163-80	4.4	610
101	Nano-C60 cytotoxicity is due to lipid peroxidation. <i>Biomaterials</i> , <b>2005</b> , 26, 7587-95	15.6	592
100	C60 in water: nanocrystal formation and microbial response. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4307-16	10.3	574
99	Pulmonary toxicity study in rats with three forms of ultrafine-TiO <sub>2</sub> particles: differential responses related to surface properties. <i>Toxicology</i> , <b>2007</b> , 230, 90-104	4.4	527
98	Forming biocompatible and nonaggregated nanocrystals in water using amphiphilic polymers. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 2871-9	16.4	452
97	Pulmonary instillation studies with nanoscale TiO <sub>2</sub> rods and dots in rats: toxicity is not dependent upon particle size and surface area. <i>Toxicological Sciences</i> , <b>2006</b> , 91, 227-36	4.4	430
96	Development of a base set of toxicity tests using ultrafine TiO <sub>2</sub> particles as a component of nanoparticle risk management. <i>Toxicology Letters</i> , <b>2007</b> , 171, 99-110	4.4	417
95	Pulmonary bioassay studies with nanoscale and fine-quartz particles in rats: toxicity is not dependent upon particle size but on surface characteristics. <i>Toxicological Sciences</i> , <b>2007</b> , 95, 270-80	4.4	245
94	Comparative pulmonary toxicity assessments of C60 water suspensions in rats: few differences in fullerene toxicity in vivo in contrast to in vitro profiles. <i>Nano Letters</i> , <b>2007</b> , 7, 2399-406	11.5	237
93	Bacterial cell association and antimicrobial activity of a C60 water suspension. <i>Environmental Toxicology and Chemistry</i> , <b>2005</b> , 24, 2757-62	3.8	227
92	The relationship between pH and zeta potential of ~ 30 nm metal oxide nanoparticle suspensions relevant to in vitro toxicological evaluations. <i>Nanotoxicology</i> , <b>2009</b> , 3, 276-283	5.3	223
91	Health effects related to nanoparticle exposures: environmental, health and safety considerations for assessing hazards and risks <b>2008</b> , 120, 35-42		205
90	Aqueous dispersion of monodisperse magnetic iron oxide nanocrystals through phase transfer. <i>Nanotechnology</i> , <b>2006</b> , 17, 4483-4487	3.4	183
89	Characterization of nanomaterials for toxicity assessment. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , <b>2009</b> , 1, 660-70	9.2	124

88	Nanoscale and fine zinc oxide particles: can in vitro assays accurately forecast lung hazards following inhalation exposures?. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7939-45	10.3	116
87	Application of fullerenes in nanomedicine: an update. <i>Nanomedicine</i> , <b>2013</b> , 8, 1191-208	5.6	107
86	The potential exposure and hazards of copper nanoparticles: A review. <i>Environmental Toxicology and Pharmacology</i> , <b>2019</b> , 71, 103220	5.8	101
85	Comparative study of predictive computational models for nanoparticle-induced cytotoxicity. <i>Risk Analysis</i> , <b>2010</b> , 30, 1723-34	3.9	90
84	Interactions between silver nanoparticles and other metal nanoparticles under environmentally relevant conditions: A review. <i>Science of the Total Environment</i> , <b>2019</b> , 653, 1042-1051	10.2	66
83	Synergistic effect of co-exposure to carbon black and Fe <sub>2</sub> O <sub>3</sub> nanoparticles on oxidative stress in cultured lung epithelial cells. <i>Particle and Fibre Toxicology</i> , <b>2009</b> , 6, 4	8.4	63
82	Terahertz Vibrational Modes of Inverse Micelles. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 6346-6353	3.4	62
81	Changing the dose metric for inhalation toxicity studies: short-term study in rats with engineered aerosolized amorphous silica nanoparticles. <i>Inhalation Toxicology</i> , <b>2010</b> , 22, 348-54	2.7	57
80	Impact of metal ions, metal oxides, and nanoparticles on the formation of disinfection byproducts during chlorination. <i>Chemical Engineering Journal</i> , <b>2017</b> , 317, 777-792	14.7	53
79	Quantum dots trigger immunomodulation of the NFB pathway in human skin cells. <i>Molecular Immunology</i> , <b>2011</b> , 48, 1349-59	4.3	48
78	A role for nanoparticle surface reactivity in facilitating pulmonary toxicity and development of a base set of hazard assays as a component of nanoparticle risk management. <i>Inhalation Toxicology</i> , <b>2009</b> , 21 Suppl 1, 61-7	2.7	48
77	Perspectives on the design of safer nanomaterials and manufacturing processes. <i>Journal of Nanoparticle Research</i> , <b>2015</b> , 17, 366	2.3	41
76	Expert consensus on an in vitro approach to assess pulmonary fibrogenic potential of aerosolized nanomaterials. <i>Archives of Toxicology</i> , <b>2016</b> , 90, 1769-83	5.8	41
75	Asymmetrical, water-soluble phthalocyanine dyes for covalent labeling of oligonucleotides. <i>Bioconjugate Chemistry</i> , <b>2002</b> , 13, 1244-52	6.3	39
74	Comparative cytological responses of lung epithelial and pleural mesothelial cells following in vitro exposure to nanoscale SiO <sub>2</sub> . <i>Toxicology in Vitro</i> , <b>2013</b> , 27, 24-33	3.6	38
73	Internalization of carbon black and maghemite iron oxide nanoparticle mixtures leads to oxidant production. <i>Chemical Research in Toxicology</i> , <b>2010</b> , 23, 1874-82	4	33
72	Aerosol generation and characterization of multi-walled carbon nanotubes exposed to cells cultured at the air-liquid interface. <i>Particle and Fibre Toxicology</i> , <b>2016</b> , 13, 20	8.4	32
71	Mitigation of quantum dot cytotoxicity by microencapsulation. <i>PLoS ONE</i> , <b>2011</b> , 6, e22079	3.7	32

70	Surface functionalization of silver nanoparticles: novel applications for insect vector control. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 3779-87	9.5	31
69	Pulmonary exposures to Sepiolite nanoclay particulates in rats: resolution following multinucleate giant cell formation. <i>Toxicology Letters</i> , <b>2010</b> , 192, 286-93	4.4	29
68	Synthesis and characterization of nanometer-sized liposomes for encapsulation and microRNA transfer to breast cancer cells. <i>International Journal of Nanomedicine</i> , <b>2019</b> , 14, 5159-5173	7.3	28
67	Surface plasmon resonance: a label-free tool for cellular analysis. <i>Nanomedicine</i> , <b>2015</b> , 10, 1833-46	5.6	27
66	Can in vitro assays substitute for in vivo studies in assessing the pulmonary hazards of fine and nanoscale materials?. <i>Journal of Nanoparticle Research</i> , <b>2009</b> , 11, 421-431	2.3	26
65	Synthesis and self-organization of soluble monodisperse palladium nanoclusters. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 287, 146-51	9.3	26
64	A framework for grouping nanoparticles based on their measurable characteristics. <i>International Journal of Nanomedicine</i> , <b>2013</b> , 8 Suppl 1, 45-56	7.3	25
63	An in vitro investigation of the differential cytotoxic responses of human and rat lung epithelial cell lines using TiO <sub>2</sub> nanoparticles. <i>International Journal of Nanotechnology</i> , <b>2008</b> , 5, 15	1.5	24
62	Ferrate(VI) pretreatment before disinfection: An effective approach to controlling unsaturated and aromatic halo-disinfection byproducts in chlorinated and chloraminated drinking waters. <i>Environment International</i> , <b>2020</b> , 138, 105641	12.9	24
61	A role for surface reactivity in TiO <sub>2</sub> and quartz-related nanoparticle pulmonary toxicity. <i>Nanotoxicology</i> , <b>2009</b> , 3, 181-187	5.3	20
60	Summary report of PQRI Workshop on Nanomaterial in Drug Products: current experience and management of potential risks. <i>AAPS Journal</i> , <b>2015</b> , 17, 44-64	3.7	19
59	Cytotoxicological pathways induced after nanoparticle exposure: studies of oxidative stress at the 'nano-bio' interface. <i>Toxicology Research</i> , <b>2017</b> , 6, 580-594	2.6	19
58	UV light induces Ag nanoparticle formation: roles of natural organic matter, iron, and oxygen. <i>Environmental Chemistry Letters</i> , <b>2016</b> , 14, 353-357	13.3	19
57	A 90-day dietary study with fibrillated cellulose in Sprague-Dawley rats. <i>Toxicology Reports</i> , <b>2020</b> , 7, 174-182	4.82	18
56	Copper, silver, and titania nanoparticles do not release ions under anoxic conditions and release only minute ion levels under oxic conditions in water: Evidence for the low toxicity of nanoparticles. <i>Environmental Chemistry Letters</i> , <b>2020</b> , 18, 1319-1328	13.3	17
55	Cilostazol blocks pregnancy in naturally cycling mice. <i>Contraception</i> , <b>2013</b> , 87, 443-8	2.5	17
54	Particle uptake efficiency is significantly affected by type of capping agent and cell line. <i>Journal of Applied Toxicology</i> , <b>2015</b> , 35, 1114-21	4.1	17
53	The Relationships among Structure, Activity, and Toxicity of Engineered Nanoparticles. <i>KONA Powder and Particle Journal</i> , <b>2014</b> , 31, 10-21	3.4	15

52	Distinct immunomodulatory effects of a panel of nanomaterials in human dermal fibroblasts. <i>Toxicology Letters</i> , <b>2012</b> , 210, 293-301	4.4	15
51	Nanomaterial Drug Products: Manufacturing and Analytical Perspectives. <i>AAPS Journal</i> , <b>2017</b> , 19, 18-25	3.7	13
50	In vitro effects of cilostazol, a phosphodiesterase 3A inhibitor, on mouse oocyte maturation and morphology. <i>Clinical and Experimental Pharmacology and Physiology</i> , <b>2014</b> , 41, 147-53	3	13
49	Effects of ascorbate and carbonate on the conversion and developmental toxicity of halogenated disinfection byproducts during boiling of tap water. <i>Chemosphere</i> , <b>2020</b> , 254, 126890	8.4	12
48	Nanoparticle toxicology: measurements of pulmonary hazard effects following exposures to nanoparticles. <i>Methods in Molecular Biology</i> , <b>2011</b> , 726, 313-24	1.4	12
47	Refining In Vitro Toxicity Models: Comparing Baseline Characteristics of Lung Cell Types. <i>Toxicological Sciences</i> , <b>2019</b> , 168, 302-314	4.4	11
46	Cilostazol administered to female mice induces ovulation of immature oocytes: a contraceptive animal model. <i>Life Sciences</i> , <b>2014</b> , 96, 46-52	6.8	11
45	Fifteen years of nanoEHS research advances science and fosters a vibrant community. <i>Nature Nanotechnology</i> , <b>2019</b> , 14, 996-998	28.7	10
44	Ferrate(VI) pretreatment of water containing natural organic matter, bromide, and iodide: A potential strategy to control soluble lead release from PbO(s). <i>Chemosphere</i> , <b>2021</b> , 263, 128035	8.4	10
43	Addition of lemon before boiling chlorinated tap water: A strategy to control halogenated disinfection byproducts. <i>Chemosphere</i> , <b>2021</b> , 263, 127954	8.4	9
42	Differences among Unique Nanoparticle Protein Corona Constructs: A Case Study Using Data Analytics and Multi-Variant Visualization to Describe Physicochemical Characteristics. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2669	2.6	9
41	Physical, chemical, and toxicological characterization of fibrillated forms of cellulose using an gastrointestinal digestion and co-culture model. <i>Toxicology Research</i> , <b>2020</b> , 9, 290-301	2.6	8
40	Routes of Exposure to Nanoparticles: Hazard Tests Related to Portal Entries <b>2015</b> , 41-54		7
39	Silver Nanoparticles Agglomerate Intracellularly Depending on the Stabilizing Agent: Implications for Nanomedicine Efficacy. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	7
38	Engineered Nanoparticles Induce DNA Damage in Primary Human Skin Cells, Even at Low Doses. <i>Nano LIFE</i> , <b>2014</b> , 04, 1440001	0.9	6
37	Physical, chemical, and toxicological characterization of sulfated cellulose nanocrystals for food-related applications using and strategies. <i>Toxicology Research</i> , <b>2020</b> , 9, 808-822	2.6	6
36	A physiologically relevant approach to characterize the microbial response to colloidal particles in food matrices within a simulated gastrointestinal tract. <i>Food and Chemical Toxicology</i> , <b>2012</b> , 50, 2971-7	4.7	5
35	Toxicological Studies with Nanoscale Materials <b>2010</b> , 3-47		5

34	Fluorescently Labeled Cellulose Nanofibers for Environmental Health and Safety Studies. <i>Nanomaterials</i> , <b>2021</b> , 11,	5-4	5
33	Are Honey Bees at Risk from Microplastics?. <i>Toxics</i> , <b>2021</b> , 9,	4-7	5
32	Scale of health: indices of safety and efficacy in the evolving environment of large biological datasets. <i>Pharmaceutical Research</i> , <b>2014</b> , 31, 2256-65	4-5	4
31	Nanotoxicology: Developing a Responsible Technology. <i>Women in Engineering and Science</i> , <b>2020</b> , 43-55	0.5	4
30	Determining the Biological Mechanisms of Action for Environmental Exposures: Applying CRISPR/Cas9 to Toxicological Assessments. <i>Toxicological Sciences</i> , <b>2020</b> , 175, 5-18	4-4	3
29	Nanotoxicology: Determining Nano-Bio Interactions and Evaluating Toxicity Using In vitro Models <b>2015</b> , 85-110		3
28	PM1 particles at coal- and gas-fired power plant work areas. <i>Annals of Occupational Hygiene</i> , <b>2012</b> , 56, 182-93		3
27	Physicochemical Characteristics of Two Prototypical Home-Use Consumer Products Containing Engineered Nanomaterials <b>2015</b> , 05,		2
26	Nanoarray Bionanotechnology <b>2016</b> , 619-648		2
25	Characterization of a Human In Vitro Intestinal Model for the Hazard Assessment of Nanomaterials Used in Cancer Immunotherapy. <i>Applied Sciences (Switzerland)</i> , <b>2021</b> , 11, 2113	2.6	2
24	The Role of Oxidative Stress in Nanotoxicology		2
23	Data dialogues: critical connections for designing and implementing future nanomaterial research. <i>Environment Systems and Decisions</i> , <b>2015</b> , 35, 76-87	4.1	1
22	Consumer Products Containing Nanomaterials <b>2018</b> , 351-387		1
21	An Adverse Outcome Pathway Linking Organohalogen Exposure to Mitochondrial Disease. <i>Journal of Toxicology</i> , <b>2019</b> , 2019, 9246495	3.1	1
20	Characterizing the Nano-Bio Interface Using Microscopic Techniques: Imaging the Cell System is Just as Important as Imaging the Nanoparticle System. <i>Current Protocols in Chemical Biology</i> , <b>2017</b> , 9, 213-231	1.8	1
19	5. Certification: Validating Workers' Competence in Nano-safety <b>2017</b> , 108-120		1
18	Effects of a novel pesticide-particle conjugate on viability and reactive oxygen species generation in neuronal (PC12) cells. <i>Drug and Chemical Toxicology</i> , <b>2015</b> , 38, 205-11	2.3	1
17	Nanotoxicology <b>2010</b> , 707-715		1

16	Pseudosymmetry with $Z' = 4$ in 1,3-propanesultone at 100K. <i>Acta Crystallographica Section C: Crystal Structure Communications</i> , <b>1999</b> , 55, 2126-2129		1
15	Models for Testing the Pulmonary Toxicity of Particles <b>2006</b> , 317-330		1
14	Safe Handling of Engineered Nanomaterials: Turning Knowledge Into Practice		1
13	Differential Cytotoxicity of Haloaromatic Disinfection Byproducts and Lead Co-exposures against Human Intestinal and Neuronal Cells. <i>Chemical Research in Toxicology</i> , <b>2020</b> , 33, 2401-2407	4	1
12	The link between delivered aerosol dose and inflammatory responses: Exposing a lung Cell Co-Culture system to selected Allergens and irritants. <i>Journal of Aerosol Science</i> , <b>2021</b> , 151, 105677	4.3	1
11	Optimizing a Test Bed System to Assess Human Respiratory Safety After Exposure to Chemical and Particle Aerosolization. <i>Applied in Vitro Toxicology</i> , <b>2018</b> , 4, 193-201	1.3	1
10	Nanoliposomal Delivery of MicroRNA-203 Suppresses Migration of Triple-Negative Breast Cancer through Distinct Target Suppression. <i>Non-coding RNA</i> , <b>2021</b> , 7,	7.1	1
9	Nasal Dry Powder Vaccine Delivery Technology <b>2014</b> , 717-726		0
8	Engineered aluminum nanoparticle induces mitochondrial deformation and is predicated on cell phenotype.. <i>Nanotoxicology</i> , <b>2022</b> , 1-18	5.3	0
7	Synergistic cytotoxicity of bromoacetic acid and three emerging bromophenolic disinfection byproducts against human intestinal and neuronal cells. <i>Chemosphere</i> , <b>2022</b> , 287, 131794	8.4	0
6	Toxicological Issues to Consider When Evaluating the Safety of Consumer Products Containing Nanomaterials <b>2014</b> , 77-115		
5	Developing Bioassay Methods for Evaluating Pulmonary Hazards from Nanoscale or Fine Quartz/Titanium Dioxide Particulate Materials 161-170		
4	Criteria and Implementation of Physical and Chemical Characteristics of Nanomaterials for Human Health Effects and Ecological Toxicity Studies 29-39		
3	Nano-Exposure Science: How Does Exposure to Engineered Nanomaterials Happen? 343-362		
2	Sample preparation utilizing sputter coating increases contrast of cellulose nanocrystals in the transmission electron microscope. <i>Microscopy (Oxford, England)</i> , <b>2019</b> , 68, 471-474	1.3	
1	Perspectives for Characterizing Drug Component of Theranostic Products Containing Nanomaterials. <i>Bioanalysis</i> , <b>2019</b> , 301-316	0.5	