

Scott C. Brown

List of Publications by Year in descending order

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83
papers

8,358
citations

117625

34
h-index

82547

72
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88
all docs

88
docs citations

88
times ranked

10172
citing authors

#	ARTICLE	IF	CITATIONS
1	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> , 2006, 92, 174-185.	3.1	757
2	Nanoparticles for bioimaging. <i>Advances in Colloid and Interface Science</i> , 2006, 123-126, 471-485.	14.7	644
3	Pulmonary toxicity study in rats with three forms of ultrafine-TiO ₂ particles: Differential responses related to surface properties. <i>Toxicology</i> , 2007, 230, 90-104.	4.2	580
4	Pulmonary Responses of Mice, Rats, and Hamsters to Subchronic Inhalation of Ultrafine Titanium Dioxide Particles. <i>Toxicological Sciences</i> , 2004, 77, 347-357.	3.1	548
5	Research Strategies for Safety Evaluation of Nanomaterials. Part VI. Characterization of Nanoscale Particles for Toxicological Evaluation. <i>Toxicological Sciences</i> , 2006, 90, 296-303.	3.1	540
6	Pulmonary Instillation Studies with Nanoscale TiO ₂ Rods and Dots in Rats: Toxicity Is not Dependent upon Particle Size and Surface Area. <i>Toxicological Sciences</i> , 2006, 91, 227-236.	3.1	469
7	Development of a base set of toxicity tests using ultrafine TiO ₂ particles as a component of nanoparticle risk management. <i>Toxicology Letters</i> , 2007, 171, 99-110.	0.8	459
8	Nanoparticles as contrast agents for in-vivo bioimaging: current status and future perspectives. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3-27.	3.7	442
9	Research Strategies for Safety Evaluation of Nanomaterials, Part IV: Risk Assessment of Nanoparticles. <i>Toxicological Sciences</i> , 2006, 89, 42-50.	3.1	421
10	How Meaningful are the Results of Nanotoxicity Studies in the Absence of Adequate Material Characterization?. <i>Toxicological Sciences</i> , 2008, 101, 183-185.	3.1	388
11	Comparative Pulmonary Toxicity Assessments of C ₆₀ Water Suspensions in Rats: Few Differences in Fullerene Toxicity in Vivo in Contrast to in Vitro Profiles. <i>Nano Letters</i> , 2007, 7, 2399-2406.	9.1	261
12	Long-Term Pulmonary Responses of Three Laboratory Rodent Species to Subchronic Inhalation of Pigmentary Titanium Dioxide Particles. <i>Toxicological Sciences</i> , 2002, 70, 86-97.	3.1	251
13	Health effects related to nanoparticle exposures: Environmental, health and safety considerations for assessing hazards and risks. , 2008, 120, 35-42.		244
14	Characterization of nanomaterials for toxicity assessment. <i>Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology</i> , 2009, 1, 660-670.	6.1	137
15	Nanomaterial Categorization for Assessing Risk Potential To Facilitate Regulatory Decision-Making. <i>ACS Nano</i> , 2015, 9, 3409-3417.	14.6	129
16	Particle size distributions by transmission electron microscopy: an interlaboratory comparison case study. <i>Metrologia</i> , 2013, 50, 663-678.	1.2	118
17	Penetration of Living Cell Membranes with Fortified Carbon Nanotube Tips. <i>Langmuir</i> , 2007, 23, 10893-10896.	3.5	110
18	Development of a short-term inhalation bioassay to assess pulmonary toxicity of inhaled particles: Comparisons of pulmonary responses to carbonyl iron and silica. <i>Toxicology and Applied Pharmacology</i> , 1991, 107, 350-368.	2.8	100

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19	Risk assessment strategies for nanoscale and fine-sized titanium dioxide particles: Recognizing hazard and exposure issues. <i>Food and Chemical Toxicology</i> , 2015, 85, 138-147.	3.6	83
20	Ultralow wear fluoropolymer composites: Nanoscale functionality from microscale fillers. <i>Tribology International</i> , 2016, 95, 245-255.	5.9	79
21	Gold-Speckled Multimodal Nanoparticles for Noninvasive Bioimaging. <i>Chemistry of Materials</i> , 2008, 20, 6087-6094.	6.7	74
22	At the Crossroads of Nanotoxicology <i>in vitro</i> : Past Achievements and Current Challenges. <i>Toxicological Sciences</i> , 2015, 147, 5-16.	3.1	74
23	Acute and subchronic oral toxicity studies in rats with nanoscale and pigment grade titanium dioxide particles. <i>Food and Chemical Toxicology</i> , 2015, 84, 208-224.	3.6	73
24	Debunking Some Misconceptions about Nanotoxicology. <i>Nano Letters</i> , 2010, 10, 4777-4782.	9.1	70
25	Lateral Force Microscopy Investigation of Surfactant-Mediated Lubrication from Aqueous Solution. <i>Langmuir</i> , 2004, 20, 1724-1731.	3.5	68
26	Influence of shape, adhesion and simulated lung mechanics on amorphous silica nanoparticle toxicity. <i>Advanced Powder Technology</i> , 2007, 18, 69-79.	4.1	67
27	Changing the dose metric for inhalation toxicity studies: Short-term study in rats with engineered aerosolized amorphous silica nanoparticles. <i>Inhalation Toxicology</i> , 2010, 22, 348-354.	1.6	67
28	Gd nanoparticulates: from magnetic resonance imaging to neutron capture therapy. <i>Advanced Powder Technology</i> , 2007, 18, 663-698.	4.1	61
29	Talc mediates angiostasis in malignant pleural effusions via endostatin induction. <i>European Respiratory Journal</i> , 2007, 29, 761-769.	6.7	58
30	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> , 2009, 21, 61-67.	1.6	52
31	How to measure hazards/risks following exposures to nanoscale or pigment-grade titanium dioxide particles. <i>Toxicology Letters</i> , 2013, 220, 193-204.	0.8	51
32	Multi-dye theranostic nanoparticle platform for bioimaging and cancer therapy. <i>International Journal of Nanomedicine</i> , 2012, 7, 2739.	6.7	45
33	Mechanical and thermodynamic properties of surfactant aggregates at the solid-liquid interface. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 29-36.	9.4	41
34	Kinetics of Liquid Annulus Formation and Capillary Forces. <i>Langmuir</i> , 2011, 27, 13514-13523.	3.5	40
35	Toward Advancing Nano-Object Count Metrology: A Best Practice Framework. <i>Environmental Health Perspectives</i> , 2013, 121, 1282-1291.	6.0	36
36	What is the impact of surface modifications and particle size on commercial titanium dioxide particle samples? – A review of <i>in vivo</i> pulmonary and oral toxicity studies – Revised 11-6-2018. <i>Toxicology Letters</i> , 2019, 302, 42-59.	0.8	35

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37	TIME COURSE OF QUARTZ AND TiO ₂ PARTICLE-INDUCED PULMONARY INFLAMMATION AND NEUTROPHIL APOPTOTIC RESPONSES IN RATS. <i>Experimental Lung Research</i> , 2002, 28, 641-670.	1.2	34
38	Pulmonary exposures to Sepiolite nanoclay particulates in rats: Resolution following multinucleate giant cell formation. <i>Toxicology Letters</i> , 2010, 192, 286-293.	0.8	33
39	The significance of electrokinetic characterization for interpreting interfacial phenomena at planar, macroscopic interfaces. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 678.	2.8	32
40	Applied Nanotoxicology. <i>International Journal of Toxicology</i> , 2016, 35, 5-16.	1.2	32
41	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020, 7, 13-36.	4.3	32
42	Multimodal Nanoparticulate Bioimaging Contrast Agents. <i>Methods in Molecular Biology</i> , 2010, 624, 67-81.	0.9	31
43	Nanoparticle Characterization for Cancer Nanotechnology and Other Biological Applications. <i>Methods in Molecular Biology</i> , 2010, 624, 39-65.	0.9	29
44	Near-infrared absorbing and luminescent gold speckled silica nanoparticles for photothermal therapy. <i>Journal of Materials Chemistry</i> , 2010, 20, 5182.	6.7	29
45	The promise of nanotechnology for solving clinical problems in breast cancer. <i>Journal of Surgical Oncology</i> , 2011, 103, 317-325.	1.7	28
46	Toxicity testing of poorly soluble particles, lung overload and lung cancer. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 100, 80-91.	2.7	27
47	Long-term Inhalation Toxicity Studies with Multiwalled Carbon Nanotubes: Closing the Gaps or Initiating the Debate?. <i>Toxicological Sciences</i> , 2009, 112, 273-275.	3.1	25
48	A role for surface reactivity in TiO ₂ and quartz-related nanoparticle pulmonary toxicity. <i>Nanotoxicology</i> , 2009, 3, 181-187.	3.0	25
49	An in vitro investigation of the differential cytotoxic responses of human and rat lung epithelial cell lines using TiO ₂ nanoparticles. <i>International Journal of Nanotechnology</i> , 2008, 5, 15.	0.2	24
50	How meaningful are risk determinations in the absence of a complete dataset? Making the case for publishing standardized test guideline and "no effect" studies for evaluating the safety of nanoparticulates versus spurious "high effect" results from single investigative studies. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 034603.	6.1	24
51	Characterization and Reclassification of Titanium Dioxide-Related Pulmonary Lesions. <i>Journal of Occupational and Environmental Medicine</i> , 2006, 48, 1308-1313.	1.7	23
52	Accumulation of MRI contrast agents in malignant fibrous histiocytoma for gadolinium neutron capture therapy. <i>Applied Radiation and Isotopes</i> , 2009, 67, S355-S358.	1.5	23
53	Size and shape distributions of primary crystallites in titania aggregates. <i>Advanced Powder Technology</i> , 2017, 28, 1647-1659.	4.1	23
54	Experimental test of a frictional contact model for shear thickening in concentrated colloidal suspensions. <i>Journal of Rheology</i> , 2020, 64, 267-282.	2.6	23

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55	Microstructure and rheology of shear-thickening colloidal suspensions with varying interparticle friction: Comparison of experiment with theory and simulation models. <i>Physics of Fluids</i> , 2021, 33, .	4.0	23
56	Man-Made Respirable-Sized Organic Fibers: What Do We Know about Their Toxicological Profiles?. <i>Industrial Health</i> , 2001, 39, 119-125.	1.0	20
57	Strategies for Optimal Chemical Mechanical Polishing (CMP) Slurry Design. <i>Journal of Dispersion Science and Technology</i> , 2003, 24, 499-515.	2.4	19
58	Fractionated photothermal antitumor therapy with multidye nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 351.	6.7	17
59	Nanoparticle-terminated scanning probe microscopy tips and surface samples. <i>Advanced Powder Technology</i> , 2007, 18, 605-614.	4.1	14
60	Tailoring Silica Nanotribology for CMP Slurry Optimization: Ca ²⁺ Cation Competition in C ₁₂ TAB Mediated Lubrication. <i>ACS Applied Materials & Interfaces</i> , 2010, 2, 1228-1235.	8.0	13
61	Nanoparticle Toxicology: Measurements of Pulmonary Hazard Effects Following Exposures to Nanoparticles. <i>Methods in Molecular Biology</i> , 2011, 726, 313-324.	0.9	13
62	Assessing health risks of inhaled nanomaterials: development of pulmonary bioassay hazard studies. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 607-612.	3.7	11
63	Targeted Delivery of Amikacin into Granuloma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 1546-1553.	5.6	10
64	Embracing a Weight-of-Evidence Approach for Establishing NOAELs for Nanoparticle Inhalation Toxicity Studies. <i>Toxicologic Pathology</i> , 2013, 41, 387-394.	1.8	10
65	Luminescent and Magnetic Nanoparticulates as Biomarkers. <i>KONA Powder and Particle Journal</i> , 2010, 28, 20-37.	1.7	6
66	Surfactant-Mediated Fabrication of Optical Nanoprobes. <i>Advances in Polymer Science</i> , 2008, , 189-233.	0.8	4
67	A One-Step Approach to the Synthesis of High Aspect Ratio Titania Nanoflakes. <i>Global Challenges</i> , 2017, 1, 1700060.	3.6	4
68	Grouping of Poorly Soluble Low (Cyto)Toxic Particles: Example with 15 Selected Nanoparticles and A549 Human Lung Cells. <i>Nanomaterials</i> , 2019, 9, 704.	4.1	4
69	One-step, in situ jamming point measurements by immobilization cell rheometry. <i>Rheologica Acta</i> , 2020, 59, 209-225.	2.4	4
70	Microstructure of continuous shear thickening colloidal suspensions determined by rheo-VSANS and rheo-USANS. <i>Soft Matter</i> , 2022, 18, 4325-4337.	2.7	4
71	Pulmonary Bioassay Methods for Evaluating Hazards Following Exposures to Nanoscale or Fine Particulate Materials. , 2011, , 99-108.		2
72	Talc pleuradesis: a particulate analysis. <i>Advanced Powder Technology</i> , 2007, 18, 739-750.	4.1	1

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73	The "Gator"™ Mouse Suit for early bioluminescent metastatic breast cancer detection and nanomaterial signal enhancement during live animal imaging. <i>Luminescence</i> , 2011, 26, 390-396.	2.9	1
74	A Trojan Horse Strategy to Deliver Amikacin to Mycobacterial Granulomas. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 860-861.	5.6	1
75	Dendritic Cell Based Delivery of Nanoparticles into Granuloma in Non-Tuberculous Mycobacterial Infection.. , 2009, , .		0
76	Developing Bioassay Methods for Evaluating Pulmonary Hazards from Nanoscale or Fine Quartz/Titanium Dioxide Particulate Materials. , 0, , 161-170.		0
77	Criteria and Implementation of Physical and Chemical Characteristics of Nanomaterials for Human Health Effects and Ecological Toxicity Studies. , 0, , 29-39.		0
78	63: Novel Gold Speckled Silica Nanoparticles as Mediators of in Vivo Tumor Imaging and Photothermal Ablation. <i>Journal of Surgical Research</i> , 2009, 151, 199-200.	1.6	0
79	Heme Oxygenase-1 Induction In Human Bronchial Airway Epithelial Cells Exposed To Different Types Of Platinum Nanoparticles. , 2010, , .		0
80	Pulmonary bioassay studies with brake lining components - Nonfibrous potassium octatitanate - Terracess JS particles in rats. <i>Food and Chemical Toxicology</i> , 2021, 153, 112292.	3.6	0
81	Afm. , 2008, , 153-167.		0
82	Evaluation of the Mechanical and Tribological Properties of Self-Assembled Surfactant Nanostructures Using Atomic Force Microscopy. <i>Surfactant Science</i> , 2010, , 1057-1070.	0.0	0
83	Lung Bioassay Methodologies for Assessing Hazards After Exposures to Nanoscale or Fine Particulates. , 2016, , 83-90.		0