

Scott C. Brown

List of Publications by Year in descending order

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83
papers

8,358
citations

134610

34
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93651

72
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88
all docs

88
docs citations

88
times ranked

11458
citing authors

#	ARTICLE	IF	CITATIONS
1	Microstructure of continuous shear thickening colloidal suspensions determined by rheo-VSANS and rheo-USANS. <i>Soft Matter</i> , 2022, 18, 4325-4337.	1.2	4
2	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, .	1.6	23
3	Pulmonary bioassay studies with brake lining components - Nonfibrous potassium octatitanate - Terracess JS particles in rats. <i>Food and Chemical Toxicology</i> , 2021, 153, 112292.	1.8	0
4	Harmonizing across environmental nanomaterial testing media for increased comparability of nanomaterial datasets. <i>Environmental Science: Nano</i> , 2020, 7, 13-36.	2.2	32
5	Experimental test of a frictional contact model for shear thickening in concentrated colloidal suspensions. <i>Journal of Rheology</i> , 2020, 64, 267-282.	1.3	23
6	One-step, in situ jamming point measurements by immobilization cell rheometry. <i>Rheologica Acta</i> , 2020, 59, 209-225.	1.1	4
7	Grouping of Poorly Soluble Low (Cyto)Toxic Particles: Example with 15 Selected Nanoparticles and A549 Human Lung Cells. <i>Nanomaterials</i> , 2019, 9, 704.	1.9	4
8	What is the impact of surface modifications and particle size on commercial titanium dioxide particle samples? " A review of in vivo pulmonary and oral toxicity studies " Revised 11-6-2018. <i>Toxicology Letters</i> , 2019, 302, 42-59.	0.4	35
9	Toxicity testing of poorly soluble particles, lung overload and lung cancer. <i>Regulatory Toxicology and Pharmacology</i> , 2018, 100, 80-91.	1.3	27
10	Size and shape distributions of primary crystallites in titania aggregates. <i>Advanced Powder Technology</i> , 2017, 28, 1647-1659.	2.0	23
11	A One-Step Approach to the Synthesis of High Aspect Ratio Titania Nanoflakes. <i>Global Challenges</i> , 2017, 1, 1700060.	1.8	4
12	Ultralow wear fluoropolymer composites: Nanoscale functionality from microscale fillers. <i>Tribology International</i> , 2016, 95, 245-255.	3.0	79
13	Applied Nanotoxicology. <i>International Journal of Toxicology</i> , 2016, 35, 5-16.	0.6	32
14	Lung Bioassay Methodologies for Assessing Hazards After Exposures to Nanoscale or Fine Particulates. , 2016, , 83-90.		0
15	Nanomaterial Categorization for Assessing Risk Potential To Facilitate Regulatory Decision-Making. <i>ACS Nano</i> , 2015, 9, 3409-3417.	7.3	129
16	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.	1.8	83
17	At the Crossroads of Nanotoxicology <i>in vitro</i> : Past Achievements and Current Challenges. <i>Toxicological Sciences</i> , 2015, 147, 5-16.	1.4	74
18	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.	1.8	73

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19	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 nanoparticles versus spurious "high effect" results from single investigative studies. <i>Science and Technology of Advanced Materials</i> , 2015, 16, 034603.	2.8	24
20	How to measure hazards/risks following exposures to nanoscale or pigment-grade titanium dioxide particles. <i>Toxicology Letters</i> , 2013, 220, 193-204.	0.4	51
21	Particle size distributions by transmission electron microscopy: an interlaboratory comparison case study. <i>Metrologia</i> , 2013, 50, 663-678.	0.6	118
22	Toward Advancing Nano-Object Count Metrology: A Best Practice Framework. <i>Environmental Health Perspectives</i> , 2013, 121, 1282-1291.	2.8	36
23	Embracing a Weight-of-Evidence Approach for Establishing NOAELs for Nanoparticle Inhalation Toxicity Studies. <i>Toxicologic Pathology</i> , 2013, 41, 387-394.	0.9	10
24	Multi-dye theranostic nanoparticle platform for bioimaging and cancer therapy. <i>International Journal of Nanomedicine</i> , 2012, 7, 2739.	3.3	45
25	Fractionated photothermal antitumor therapy with multidye nanoparticles. <i>International Journal of Nanomedicine</i> , 2012, 7, 351.	3.3	17
26	Kinetics of Liquid Annulus Formation and Capillary Forces. <i>Langmuir</i> , 2011, 27, 13514-13523.	1.6	40
27	Nanoparticle Toxicology: Measurements of Pulmonary Hazard Effects Following Exposures to Nanoparticles. <i>Methods in Molecular Biology</i> , 2011, 726, 313-324.	0.4	13
28	Pulmonary Bioassay Methods for Evaluating Hazards Following Exposures to Nanoscale or Fine Particulate Materials. , 2011, , 99-108.		2
29	Nanoparticles as contrast agents for in-vivo bioimaging: current status and future perspectives. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 399, 3-27.	1.9	442
30	The promise of nanotechnology for solving clinical problems in breast cancer. <i>Journal of Surgical Oncology</i> , 2011, 103, 317-325.	0.8	28
31	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.	1.5	1
32	A Trojan Horse Strategy to Deliver Amikacin to Mycobacterial Granulomas. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2011, 184, 860-861.	2.5	1
33	Heme Oxygenase-1 Induction In Human Bronchial Airway Epithelial Cells Exposed To Different Types Of Platinum Nanoparticles. , 2010, ,		0
34	Assessing health risks of inhaled nanomaterials: development of pulmonary bioassay hazard studies. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 398, 607-612.	1.9	11
35	Targeted Delivery of Amikacin into Granuloma. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2010, 182, 1546-1553.	2.5	10
36	Pulmonary exposures to Sepiolite nanoclay particulates in rats: Resolution following multinucleate giant cell formation. <i>Toxicology Letters</i> , 2010, 192, 286-293.	0.4	33

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37	Tailoring Silica Nanotribology for CMP Slurry Optimization: Ca ²⁺ Cation Competition in C ₁₂ TAB Mediated Lubrication. ACS Applied Materials & Interfaces, 2010, 2, 1228-1235.	4.0	13
38	Nanoparticle Characterization for Cancer Nanotechnology and Other Biological Applications. Methods in Molecular Biology, 2010, 624, 39-65.	0.4	29
39	Debunking Some Misconceptions about Nanotoxicology. Nano Letters, 2010, 10, 4777-4782.	4.5	70
40	Changing the dose metric for inhalation toxicity studies: Short-term study in rats with engineered aerosolized amorphous silica nanoparticles. Inhalation Toxicology, 2010, 22, 348-354.	0.8	67
41	Near-infrared absorbing and luminescent gold speckled silica nanoparticles for photothermal therapy. Journal of Materials Chemistry, 2010, 20, 5182.	6.7	29
42	Multimodal Nanoparticulate Bioimaging Contrast Agents. Methods in Molecular Biology, 2010, 624, 67-81.	0.4	31
43	Luminescent and Magnetic Nanoparticulates as Biomarkers. KONA Powder and Particle Journal, 2010, 28, 20-37.	0.9	6
44	Evaluation of the Mechanical and Tribological Properties of Self-Assembled Surfactant Nanostructures Using Atomic Force Microscopy. Surfactant Science, 2010, , 1057-1070.	0.0	0
45	Dendritic Cell Based Delivery of Nanoparticles into Granuloma in Non-Tuberculous Mycobacterial Infection.. , 2009, , .		0
46	Long-term Inhalation Toxicity Studies with Multiwalled Carbon Nanotubes: Closing the Gaps or Initiating the Debate?. Toxicological Sciences, 2009, 112, 273-275.	1.4	25
47	A role for surface reactivity in TiO ₂ and quartz-related nanoparticle pulmonary toxicity. Nanotoxicology, 2009, 3, 181-187.	1.6	25
48	Characterization of nanomaterials for toxicity assessment. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2009, 1, 660-670.	3.3	137
49	Accumulation of MRI contrast agents in malignant fibrous histiocytoma for gadolinium neutron capture therapy. Applied Radiation and Isotopes, 2009, 67, S355-S358.	0.7	23
50	63: Novel Gold Speckled Silica Nanoparticles as Mediators of in Vivo Tumor Imaging and Photothermal Ablation. Journal of Surgical Research, 2009, 151, 199-200.	0.8	0
51	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. Inhalation Toxicology, 2009, 21, 61-67.	0.8	52
52	Health effects related to nanoparticle exposures: Environmental, health and safety considerations for assessing hazards and risks. , 2008, 120, 35-42.		244
53	Gold-Speckled Multimodal Nanoparticles for Noninvasive Bioimaging. Chemistry of Materials, 2008, 20, 6087-6094.	3.2	74
54	Surfactant-Mediated Fabrication of Optical Nanoprobes. Advances in Polymer Science, 2008, , 189-233.	0.4	4

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55	How Meaningful are the Results of Nanotoxicity Studies in the Absence of Adequate Material Characterization?. <i>Toxicological Sciences</i> , 2008, 101, 183-185.	1.4	388
56	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.	0.1	24
57	<i>Afm.</i> , 2008, , 153-167.		0
58	Talc mediates angiostasis in malignant pleural effusions via endostatin induction. <i>European Respiratory Journal</i> , 2007, 29, 761-769.	3.1	58
59	Penetration of Living Cell Membranes with Fortified Carbon Nanotube Tips. <i>Langmuir</i> , 2007, 23, 10893-10896.	1.6	110
60	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.	0.4	459
61	Influence of shape, adhesion and simulated lung mechanics on amorphous silica nanoparticle toxicity. <i>Advanced Powder Technology</i> , 2007, 18, 69-79.	2.0	67
62	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.	4.5	261
63	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.	2.0	580
64	Nanoparticle-terminated scanning probe microscopy tips and surface samples. <i>Advanced Powder Technology</i> , 2007, 18, 605-614.	2.0	14
65	Talc pleuradesis: a particulate analysis. <i>Advanced Powder Technology</i> , 2007, 18, 739-750.	2.0	1
66	Gd nanoparticulates: from magnetic resonance imaging to neutron capture therapy. <i>Advanced Powder Technology</i> , 2007, 18, 663-698.	2.0	61
67	Research Strategies for Safety Evaluation of Nanomaterials, Part IV: Risk Assessment of Nanoparticles. <i>Toxicological Sciences</i> , 2006, 89, 42-50.	1.4	421
68	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.	1.4	469
69	Characterization and Reclassification of Titanium Dioxide-Related Pulmonary Lesions. <i>Journal of Occupational and Environmental Medicine</i> , 2006, 48, 1308-1313.	0.9	23
70	Nanoparticles for bioimaging. <i>Advances in Colloid and Interface Science</i> , 2006, 123-126, 471-485.	7.0	644
71	Research Strategies for Safety Evaluation of Nanomaterials. Part VI. Characterization of Nanoscale Particles for Toxicological Evaluation. <i>Toxicological Sciences</i> , 2006, 90, 296-303.	1.4	540
72	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.	1.4	757

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73	The significance of electrokinetic characterization for interpreting interfacial phenomena at planar, macroscopic interfaces. <i>Physical Chemistry Chemical Physics</i> , 2005, 7, 678.	1.3	32
74	Mechanical and thermodynamic properties of surfactant aggregates at the solid-liquid interface. <i>Journal of Colloid and Interface Science</i> , 2004, 270, 29-36.	5.0	41
75	Pulmonary Responses of Mice, Rats, and Hamsters to Subchronic Inhalation of Ultrafine Titanium Dioxide Particles. <i>Toxicological Sciences</i> , 2004, 77, 347-357.	1.4	548
76	Lateral Force Microscopy Investigation of Surfactant-Mediated Lubrication from Aqueous Solution. <i>Langmuir</i> , 2004, 20, 1724-1731.	1.6	68
77	Strategies for Optimal Chemical Mechanical Polishing (CMP) Slurry Design. <i>Journal of Dispersion Science and Technology</i> , 2003, 24, 499-515.	1.3	19
78	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.	1.4	251
79	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.	0.5	34
80	Man-Made Respirable-Sized Organic Fibers: What Do We Know about Their Toxicological Profiles?. <i>Industrial Health</i> , 2001, 39, 119-125.	0.4	20
81	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.	1.3	100
82	Developing Bioassay Methods for Evaluating Pulmonary Hazards from Nanoscale or Fine Quartz/Titanium Dioxide Particulate Materials. , 0, , 161-170.		0
83	Criteria and Implementation of Physical and Chemical Characteristics of Nanomaterials for Human Health Effects and Ecological Toxicity Studies. , 0, , 29-39.		0