Bryan Hellack

List of Publications by Year
in descending order

29 papers	1,236 citations	361296 20 h-index	454834 30 g-index
30 all docs	30 docs citations	30 times ranked	2054 citing authors

#	Article	IF	Citations
1	Genotoxicity and Gene Expression in the Rat Lung Tissue following Instillation and Inhalation of Different Variants of Amorphous Silica Nanomaterials (aSiO2 NM). Nanomaterials, 2021, 11, 1502.	1.9	11
2	Nanomaterials induce different levels of oxidative stress, depending on the used model system: Comparison of in vitro and in vivo effects. Science of the Total Environment, 2021, 801, 149538.	3.9	15
3	A multi-omics approach reveals mechanisms of nanomaterial toxicity and structureâ€“activity relationships in alveolar macrophages. Nanotoxicology, 2020, 14, 181-195.	1.6	24
4	Nanomaterial categorization by surface reactivity: A case study comparing 35 materials with four different test methods. NanoImpact, 2020, 19, 100234.	2.4	25
5	Recursive feature elimination in random forest classification supports nanomaterial grouping. NanoImpact, 2019, 15, 100179.	2.4	64
6	An in-depth multi-omics analysis in RLE-6TN rat alveolar epithelial cells allows for nanomaterial categorization. Particle and Fibre Toxicology, 2019, 16, 38.	2.8	26
7	Effects of short-term exposure to fine and ultrafine particles from indoor sources on arterial stiffness â€“ A randomized sham-controlled exposure study. International Journal of Hygiene and Environmental Health, 2019, 222, 1115-1132.	2.1	15
8	Closing gaps for environmental risk screening of engineered nanomaterials. NanoImpact, 2019, 15, 100173.	2.4	22
9	Multi-walled carbon nanotubes induce stronger migration of inflammatory cells in vitro than asbestos or granular particles but a similar pattern of inflammatory mediators. Toxicology in Vitro, 2019, 58, 215-223.	1.1	14
10	The nanoGRAVUR framework to group (nano)materials for their occupational, consumer, environmental risks based on a harmonized set of material properties, applied to 34 case studies. Nanoscale, 2019, 11, 17637-17654.	2.8	38
11	Grouping concept for metal and metal oxide nanomaterials with regard to their ecotoxicological effects on algae, daphnids and fish embryos. NanoImpact, 2018, 9, 52-60.	2.4	36
12	Silver nanoparticles induce hormesis in A549 human epithelial cells. Toxicology in Vitro, 2017, 40, 223-233.	1.1	48
13	Land use regression modeling of oxidative potential of fine particles, NO2, PM2.5 mass and association to type two diabetes mellitus. Atmospheric Environment, 2017, 171, 181-190.	1.9	13
14	Analytical methods to assess the oxidative potential of nanoparticles: a review. Environmental Science: Nano, 2017, 4, 1920-1934.	2.2	53
15	Arterial blood pressure responses to short-term exposure to fine and ultrafine particles from indoor sources â€“ A randomized sham-controlled exposure study of healthy volunteers. Environmental Research, 2017, 158, 225-232.	3.7	24
16	Oxidative potential of silver nanoparticles measured by electron paramagnetic resonance spectroscopy. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	8
17	Size matters â€“ The phototoxicity of TiO2 nanomaterials. Environmental Pollution, 2016, 208, 859-867.	3.7	30
18	Proteomic analysis of protein carbonylation: a useful tool to unravel nanoparticle toxicity mechanisms. Particle and Fibre Toxicology, 2015, 12, 36.	2.8	49

#	Article	IF	Citations
19	Elemental composition and radical formation potency of PM10 at an urban background station in Germany in relation to origin of air masses. Atmospheric Environment, 2015, 105, 1-6.	1.9	16
20	Agreement of central site measurements and land use regression modeled oxidative potential of PM2.5 with personal exposure. Environmental Research, 2015, 140, 397-404.	3.7	9
21	Oxidative potential of particulate matter at a German motorway. Environmental Sciences: Processes and Impacts, 2015, 17, 868-876.	1.7	15
22	Temporal and spatial variation of the metal-related oxidative potential of PM 2.5 and its relation to PM 2.5 mass and elemental composition. Atmospheric Environment, 2015, 102, 62-69.	1.9	34
23	Associations between three specific a-cellular measures of the oxidative potential of particulate matter and markers of acute airway and nasal inflammation in healthy volunteers. Occupational and Environmental Medicine, 2015, 72, 49-56.	1.3	105
24	Respiratory Effects of Fine and Ultrafine Particles from Indoor Sourcesâ€"A Randomized Sham-Controlled Exposure Study of Healthy Volunteers. International Journal of Environmental Research and Public Health, 2014, 11, 6871-6889.	1.2	30
25	Dynamic light-scattering measurement comparability of nanomaterial suspensions. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	37
26	Intrinsic hydroxyl radical generation measurements directly from sampled filters as a metric for the oxidative potential of ambient particulate matter. Journal of Aerosol Science, 2014, 72, 47-55.	1.8	36
27	Oxidative potential of particulate matter collected at sites with different source characteristics. Science of the Total Environment, 2014, 472, 572-581.	3.9	228
28	Measurement of the oxidative potential of PM2.5 and its constituents: The effect of extraction solvent and filter type. Atmospheric Environment, 2014, 83, 35-42.	1.9	147
29	Oxidant Generation and Toxicity of Size-Fractionated Ambient Particles in Human Lung Epithelial Cells. Environmental Science & Technology, 2010, 44, 3539-3545.	4.6	62