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	Oxidative potential of particulate matter collected at sites with different source characteristics. Science of the Total Environment, 2014, 472, 572-581.	3.9	228
2	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
3	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
4	Recursive feature elimination in random forest classification supports nanomaterial grouping. NanoImpact, 2019, 15, 100179.	2.4	64
5	Oxidant Generation and Toxicity of Size-Fractionated Ambient Particles in Human Lung Epithelial Cells. Environmental Science & Technology, 2010, 44, 3539-3545.	4.6	62
6	Analytical methods to assess the oxidative potential of nanoparticles: a review. Environmental Science: Nano, 2017, 4, 1920-1934.	2.2	53
7	Proteomic analysis of protein carbonylation: a useful tool to unravel nanoparticle toxicity mechanisms. Particle and Fibre Toxicology, 2015, 12, 36.	2.8	49
8	Silver nanoparticles induce hormesis in A549 human epithelial cells. Toxicology in Vitro, 2017, 40, 223-233.	1.1	48
9	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
10	Dynamic light-scattering measurement comparability of nanomaterial suspensions. Journal of Nanoparticle Research, 2014, 16, 1.	0.8	37
11	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
12	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
13	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
14	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
15	Size matters â€" The phototoxicity of TiO2 nanomaterials. Environmental Pollution, 2016, 208, 859-867.	3.7	30
16	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
17	Nanomaterial categorization by surface reactivity: A case study comparing 35 materials with four different test methods. NanoImpact, 2020, 19, 100234.	2.4	25
18	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

#	Article	IF	Citations
19	A multi-omics approach reveals mechanisms of nanomaterial toxicity and structureâ€“activity relationships in alveolar macrophages. Nanotoxicology, 2020, 14, 181-195.	1.6	24
20	Closing gaps for environmental risk screening of engineered nanomaterials. NanoImpact, 2019, 15, 100173.	2.4	22
21	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
22	Oxidative potential of particulate matter at a German motorway. Environmental Sciences: Processes and Impacts, 2015, 17, 868-876.	1.7	15
23	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
24	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
25	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
26	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
27	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
28	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
29	Oxidative potential of silver nanoparticles measured by electron paramagnetic resonance spectroscopy. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	8