Sabina Halappanavar

List of Publications by Year
in descending order

57 papers	2,594 citations	159573 30 h-index	189881 50 g-index
59 all docs	59 docs citations	59 times ranked	2855 citing authors

#	Article	IF	Citations
1	Using AOP-Wiki to support the ecotoxicological risk assessment of nanomaterials: first steps in the development of novel adverse outcome pathways. Environmental Science: Nano, 2022, 9, 1675-1684.	4.3	3
2	The Road to Achieving the European Commission's Chemicals Strategy for Nanomaterial Sustainabilityâ€"A PATROLS Perspective on New Approach Methodologies. Small, 2022, 18, e2200231.	10.0	9
3	AOP173â€‰key event associated pathway predictor â€" online application for the prediction of benchmark dose lower bound (BMDLs) of a transcriptomic pathway involved in MWCNTs-induced lung fibrosis. Nanotoxicology, 2022, , 1-12.	3.0	1
4	The High-Throughput In Vitro CometChip Assay for the Analysis of Metal Oxide Nanomaterial Induced DNA Damage. Nanomaterials, 2022, 12, 1844.	4.1	8
5	Characterization of ENM Dynamic Dose-Dependent MOA in Lung with Respect to Immune Cells Infiltration. Nanomaterials, 2022, 12, 2031.	4.1	5
6	A transcriptomic overview of lung and liver changes one day after pulmonary exposure to graphene and graphene oxide. Toxicology and Applied Pharmacology, 2021, 410, 115343.	2.8	26
7	A methodology for developing key events to advance nanomaterial-relevant adverse outcome pathways to inform risk assessment. Nanotoxicology, 2021, 15, 289-310.	3.0	24
8	Transcriptomicsâ€Based and AOPâ€Informed Structureâ€"Activity Relationships to Predict Pulmonary Pathology Induced by Multiwalled Carbon Nanotubes. Small, 2021, 17, e2003465.	10.0	31
9	Nonâ€Animal Strategies for Toxicity Assessment of Nanoscale Materials: Role of Adverse Outcome Pathways in the Selection of Endpoints. Small, 2021, 17, e2007628.	10.0	27
10	Bringing together scientific disciplines for collaborative undertakings: a vision for advancing the adverse outcome pathway framework. International Journal of Radiation Biology, 2021, 97, 431-441.	1.8	15
11	Adverse Outcome Pathway Development for Assessment of Lung Carcinogenicity by Nanoparticles. Frontiers in Toxicology, 2021, 3, 653386.	3.1	22
12	Pulmonary toxicity and gene expression changes after short-term inhalation exposure to surface-modified copper oxide nanoparticles. NanoImpact, 2021, 22, 100313.	4.5	13
13	Impact of copper oxide particle dissolution on lung epithelial cell toxicity: response characterization using global transcriptional analysis. Nanotoxicology, 2021, 15, 380-399.	3.0	12
14	Adverse outcome pathways and inÂvitro toxicology strategies for microplastics hazard testing. Current Opinion in Toxicology, 2021, 28, 52-61.	5.0	7
15	Microplastics and nanoplastics science: collecting and characterizing airborne microplastics in fine particulate matter. Nanotoxicology, 2021, 15, 1253-1278.	3.0	21
16	Toward Rigorous Materials Production: New Approach Methodologies Have Extensive Potential to Improve Current Safety Assessment Practices. Small, 2020, 16, e1904749.	10.0	43
17	Prediction of Chronic Inflammation for Inhaled Particles: the Impact of Material Cycling and Quarantining in the Lung Epithelium. Advanced Materials, 2020, 32, e2003913.	21.0	14
18	Translating Scientific Advances in the AOP Framework to Decision Making for Nanomaterials. Nanomaterials, 2020, 10, 1229.	4.1	29

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19	Adverse outcome pathways as a tool for the design of testing strategies to support the safety assessment of emerging advanced materials at the nanoscale. Particle and Fibre Toxicology, 2020, 17, 16.	6.2	139
20	Acute Phase Response as a Biological Mechanismâ€ofâ€Action of (Nano)particleâ€Induced Cardiovascular Disease. Small, 2020, 16, e1907476.	10.0	37
21	21st Century Tools for Nanotoxicology: Transcriptomic Biomarker Panel and Precisionâ€Cut Lung Slice Organ Mimic System for the Assessment of Nanomaterialâ€Induced Lung Fibrosis. Small, 2020, 16, e2000272.	10.0	16
22	Enhanced Dark-Field Hyperspectral Imaging and Spectral Angle Mapping for Nanomaterial Detection in Consumer Care Products and in Skin Following Dermal Exposure. Chemical Research in Toxicology, 2020, 33, 1266-1278.	3.3	7
23	A systematic process for identifying key events for advancing the development of nanomaterial relevant adverse outcome pathways. NanoImpact, 2019, 15, 100178.	4.5	28
24	Acute phase response and inflammation following pulmonary exposure to low doses of zinc oxide nanoparticles in mice. Nanotoxicology, 2019, 13, 1275-1292.	3.0	42
25	Ranking of nanomaterial potency to induce pathway perturbations associated with lung responses. NanoImpact, 2019, 14, 100158.	4.5	30
26	Promise and peril in nanomedicine: the challenges and needs for integrated systems biology approaches to define health risk. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2018, 10, e1465.	6.1	37
27	Transcriptional profiling reveals gene expression changes associated with inflammation and cell proliferation following shortâ€term inhalation exposure to copper oxide nanoparticles. Journal of Applied Toxicology, 2018, 38, 385-397.	2.8	44
28	Representing the Process of Inflammation as Key Events in Adverse Outcome Pathways. Toxicological Sciences, 2018, 163, 346-352.	3.1	49
29	Identification of Gene Transcription Start Sites and Enhancers Responding to Pulmonary Carbon Nanotube Exposure in Vivo. ACS Nano, 2017, 11, 3597-3613.	14.6	23
30	Toxicogenomics analysis of mouse lung responses following exposure to titanium dioxide nanomaterials reveal their disease potential at high doses. Mutagenesis, 2017, 32, 59-76.	2.6	30
31	Multi-walled carbon nanotube-induced genotoxic, inflammatory and pro-fibrotic responses in mice: Investigating the mechanisms of pulmonary carcinogenesis. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2017, 823, 28-44.	1.7	72
32	Application of bi-clustering of gene expression data and gene set enrichment analysis methods to identify potentially disease causing nanomaterials. Data in Brief, 2017, 15, 933-940.	1.0	4
33	A framework for the use of single-chemical transcriptomics data in predicting the hazards associated with complex mixtures of polycyclic aromatic hydrocarbons. Archives of Toxicology, 2017, 91, 2599-2616.	4.2	17
34	Stat-6 signaling pathway and not Interleukin-1 mediates multi-walled carbon nanotube-induced lung fibrosis in mice: insights from an adverse outcome pathway framework. Particle and Fibre Toxicology, 2017, 14, 37.	6.2	42
35	Predicting pulmonary fibrosis in humans after exposure to multi-walled carbon nanotubes (MWCNTs). Archives of Toxicology, 2016, 90, 1605-1622.	4.2	43
36	Expert consensus on an in vitro approach to assess pulmonary fibrogenic potential of aerosolized nanomaterials. Archives of Toxicology, 2016, 90, 1769-1783.	4.2	52

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37	Immunomodulation by gastrointestinal carbon black nanoparticle exposure in ovalbumin T cell receptor transgenic mice. Nanotoxicology, 2016, 10, 1422-1430.	3.0	1
38	Characterization of in vitro genotoxic, cytotoxic and transcriptomic responses following exposures to amorphous silica of different sizes. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2016, 796, 8-22.	1.7	49
39	Transcriptional profiling identifies physicochemical properties of nanomaterials that are determinants of the in vivo pulmonary response. Environmental and Molecular Mutagenesis, 2015, 56, 245-264.	2.2	54
40	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. Particle and Fibre Toxicology, 2015, 13, 28.	6.2	64
41	Meta-analysis of transcriptomic responses as a means to identify pulmonary disease outcomes for engineered nanomaterials. Particle and Fibre Toxicology, 2015, 13, 25.	6.2	48
42	Application of biclustering of gene expression data and gene set enrichment analysis methods to identify potentially disease causing nanomaterials. Beilstein Journal of Nanotechnology, 2015, 6, 2438-2448.	2.8	49
43	Time-Dependent Subcellular Distribution and Effects of Carbon Nanotubes in Lungs of Mice. PLoS ONE, 2015, 10, e0116481.	2.5	27
44	Intratracheally instilled titanium dioxide nanoparticles translocate to heart and liver and activate complement cascade in the heart of C57BL/6 mice. Nanotoxicology, 2015, 9, 1013-1022.	3.0	92
45	MWCNTs of different physicochemical properties cause similar inflammatory responses, but differences in transcriptional and histological markers of fibrosis in mouse lungs. Toxicology and Applied Pharmacology, 2015, 284, 16-32.	2.8	159
46	Nano-risk Science: application of toxicogenomics in an adverse outcome pathway framework for risk assessment of multi-walled carbon nanotubes. Particle and Fibre Toxicology, 2015, 13, 15.	6.2	108
47	Changes in cholesterol homeostasis and acute phase response link pulmonary exposure to multi-walled carbon nanotubes to risk of cardiovascular disease. Toxicology and Applied Pharmacology, 2015, 283, 210-222.	2.8	57
48	Comparison of toxicogenomics and traditional approaches to inform mode of action and points of departure in human health risk assessment of benzo[a]pyrene in drinking water. Critical Reviews in Toxicology, 2015, 45, 1-43.	3.9	135
49	Impact of Cigarette Smoke on the Human and Mouse Lungs: A Gene-Expression Comparison Study. PLoS ONE, 2014, 9, e92498.	2.5	37
50	Particleâ€induced pulmonary acute phase response may be the causal link between particle inhalation and cardiovascular disease. Wiley Interdisciplinary Reviews: Nanomedicine and Nanobiotechnology, 2014, 6, 517-531.	6.1	91
51	Pulmonary instillation of low doses of titanium dioxide nanoparticles in mice leads to particle retention and gene expression changes in the absence of inflammation. Toxicology and Applied Pharmacology, 2013, 269, 250-262.	2.8	91
52	Toxicogenomic outcomes predictive of forestomach carcinogenesis following exposure to benzo(a)pyrene: Relevance to human cancer risk. Toxicology and Applied Pharmacology, 2013, 273, 269-280.	2.8	33
53	IL-1 Receptor Regulates microRNA-135b Expression in a Negative Feedback Mechanism during Cigarette Smokeâ€"Induced Inflammation. Journal of Immunology, 2013, 190, 3679-3686.	0.8	59
54	Transcriptomic Analysis Reveals Novel Mechanistic Insight into Murine Biological Responses to Multi-Walled Carbon Nanotubes in Lungs and Cultured Lung Epithelial Cells. PLoS ONE, 2013, 8, e80452.	2.5	80

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55	Hepatic and Pulmonary Toxicogenomic Profiles in Mice Intratracheally Instilled With Carbon Black Nanoparticles Reveal Pulmonary Inflammation, Acute Phase Response, and Alterations in Lipid Homeostasis. Toxicological Sciences, 2012, 127, 474-484.	3.1	96
56	Exposure of pregnant mice to carbon black by intratracheal instillation: Toxicogenomic effects in dams and offspring. Mutation Research - Genetic Toxicology and Environmental Mutagenesis, 2012, 745, 73-83.	1.7	92
57	Pulmonary response to surfaceâ€coated nanotitanium dioxide particles includes induction of acute phase response genes, inflammatory cascades, and changes in microRNAs: A toxicogenomic study. Environmental and Molecular Mutagenesis, 2011, 52, 425-439.	2.2	148