

Nan Sang

List of Publications by Year in descending order

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102
papers

3,636
citations

109137

35
h-index

161609

54
g-index

102
all docs

102
docs citations

102
times ranked

4146
citing authors

#	ARTICLE	IF	CITATIONS
1	SO ₂ Inhalation Contributes to the Development and Progression of Ischemic Stroke in the Brain. <i>Toxicological Sciences</i> , 2010, 114, 226-236.	1.4	266
2	Postsynaptically Synthesized Prostaglandin E ₂ (PGE ₂) Modulates Hippocampal Synaptic Transmission via a Presynaptic PGE ₂ EP ₂ Receptor. <i>Journal of Neuroscience</i> , 2005, 25, 9858-9870.	1.7	166
3	Heavy metals bound to fine particulate matter from northern China induce season-dependent health risks: A study based on myocardial toxicity. <i>Environmental Pollution</i> , 2016, 216, 380-390.	3.7	116
4	Parabens as chemicals of emerging concern in the environment and humans: A review. <i>Science of the Total Environment</i> , 2021, 778, 146150.	3.9	116
5	NF- κ B-regulated microRNA-574-5p underlies synaptic and cognitive impairment in response to atmospheric PM _{2.5} aspiration. <i>Particle and Fibre Toxicology</i> , 2017, 14, 34.	2.8	99
6	SO ₂ -Induced Neurotoxicity Is Mediated by Cyclooxygenases-2-Derived Prostaglandin E ₂ and its Downstream Signaling Pathway in Rat Hippocampal Neurons. <i>Toxicological Sciences</i> , 2011, 124, 400-413.	1.4	90
7	Winter Polycyclic Aromatic Hydrocarbon-Bound Particulate Matter from Peri-urban North China Promotes Lung Cancer Cell Metastasis. <i>Environmental Science & Technology</i> , 2015, 49, 14484-14493.	4.6	89
8	Genotoxicity of municipal landfill leachate on root tips of <i>Vicia faba</i> . <i>Mutation Research - Genetic Toxicology and Environmental Mutagenesis</i> , 2004, 560, 159-165.	0.9	87
9	Lipid Signaling and Synaptic Plasticity. <i>Neuroscientist</i> , 2006, 12, 425-434.	2.6	84
10	PGE ₂ glycerol ester, a COX-2 oxidative metabolite of 2-arachidonoyl glycerol, modulates inhibitory synaptic transmission in mouse hippocampal neurons. <i>Journal of Physiology</i> , 2006, 572, 735-745.	1.3	83
11	Delayed rectifier potassium channels are involved in SO ₂ derivative-induced hippocampal neuronal injury. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 236-241.	2.9	81
12	COX-2 oxidative metabolite of endocannabinoid 2-AG enhances excitatory glutamatergic synaptic transmission and induces neurotoxicity. <i>Journal of Neurochemistry</i> , 2007, 102, 1966-1977.	2.1	79
13	Ambient fine particulate matter exposure induces reversible cardiac dysfunction and fibrosis in juvenile and older female mice. <i>Particle and Fibre Toxicology</i> , 2018, 15, 27.	2.8	70
14	Acute nitrogen dioxide (NO ₂) exposure enhances airway inflammation via modulating Th1/Th2 differentiation and activating JAK-STAT pathway. <i>Chemosphere</i> , 2015, 120, 722-728.	4.2	68
15	PM _{2.5} , SO ₂ and NO ₂ co-exposure impairs neurobehavior and induces mitochondrial injuries in the mouse brain. <i>Chemosphere</i> , 2016, 163, 27-34.	4.2	67
16	Particulate matter (PM ₁₀) exposure induces endothelial dysfunction and inflammation in rat brain. <i>Journal of Hazardous Materials</i> , 2012, 213-214, 28-37.	6.5	58
17	Municipal landfill leachate induces cytogenetic damage in root tips of <i>Hordeum vulgare</i> . <i>Ecotoxicology and Environmental Safety</i> , 2006, 63, 469-473.	2.9	56
18	NO ₂ inhalation promotes Alzheimer's disease-like progression: cyclooxygenase-2-derived prostaglandin E ₂ modulation and monoacylglycerol lipase inhibition-targeted medication. <i>Scientific Reports</i> , 2016, 6, 22429.	1.6	56

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19	Acute nitrogen dioxide inhalation induces mitochondrial dysfunction in rat brain. <i>Environmental Research</i> , 2015, 138, 416-424.	3.7	54
20	Exposure to PFDoA causes disruption of the hypothalamus-pituitary-thyroid axis in zebrafish larvae. <i>Environmental Pollution</i> , 2018, 235, 974-982.	3.7	46
21	Landfill leachate affects metabolic responses of <i>Zea mays</i> L. seedlings. <i>Waste Management</i> , 2010, 30, 856-862.	3.7	44
22	Synergistic effects of particulate matter (PM10) and SO2 on human non-small cell lung cancer A549 via ROS-mediated NF- κ B activation. <i>Journal of Environmental Sciences</i> , 2015, 31, 146-153.	3.2	44
23	Chronic SO2 inhalation above environmental standard impairs neuronal behavior and represses glutamate receptor gene expression and memory-related kinase activation via neuroinflammation in rats. <i>Environmental Research</i> , 2015, 137, 85-93.	3.7	44
24	PM2.5-bound metal metabolic distribution and coupled lipid abnormality at different developmental windows. <i>Environmental Pollution</i> , 2017, 228, 354-362.	3.7	43
25	Effect of landfill leachate on cell cycle, micronucleus, and sister chromatid exchange in <i>Triticum aestivum</i> . <i>Journal of Hazardous Materials</i> , 2008, 155, 10-16.	6.5	42
26	SO2 inhalation induces protein oxidation, DNA-protein crosslinks and apoptosis in rat hippocampus. <i>Ecotoxicology and Environmental Safety</i> , 2009, 72, 879-884.	2.9	42
27	PM2.5 exposure stimulates COX-2-mediated excitatory synaptic transmission via ROS-NF- κ B pathway. <i>Chemosphere</i> , 2018, 190, 124-134.	4.2	42
28	Inflammatory response and endothelial dysfunction in the hearts of mice co-exposed to SO ₂ , NO ₂ , and PM _{2.5} . <i>Environmental Toxicology</i> , 2016, 31, 1996-2005.	2.1	41
29	Sulfur Dioxide Contributes to the Cardiac and Mitochondrial Dysfunction in Rats. <i>Toxicological Sciences</i> , 2016, 151, 334-346.	1.4	41
30	Particulate matter (PM2.5) exposure season-dependently induces neuronal apoptosis and synaptic injuries. <i>Journal of Environmental Sciences</i> , 2017, 54, 336-345.	3.2	41
31	Oxidative stress, endothelial dysfunction and inflammatory response in rat heart to NO2 inhalation exposure. <i>Chemosphere</i> , 2011, 82, 1589-1596.	4.2	40
32	Micronuclei induced by municipal landfill leachate in mouse bone marrow cells in vivo. <i>Environmental Research</i> , 2004, 95, 77-81.	3.7	39
33	Ambient PM2.5 causes lung injuries and coupled energy metabolic disorder. <i>Ecotoxicology and Environmental Safety</i> , 2019, 170, 620-626.	2.9	39
34	Environmental nitrogen dioxide (NO2) exposure influences development and progression of ischemic stroke. <i>Toxicology Letters</i> , 2012, 214, 120-130.	0.4	37
35	Tebuconazole induces liver injury coupled with ROS-mediated hepatic metabolism disorder. <i>Ecotoxicology and Environmental Safety</i> , 2021, 220, 112309.	2.9	37
36	SO2 inhalation modulates the expression of pro-inflammatory and pro-apoptotic genes in rat heart and lung. <i>Journal of Hazardous Materials</i> , 2011, 185, 482-488.	6.5	36

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37	Gestational exposure to PM _{2.5} impairs vascularization of the placenta. <i>Science of the Total Environment</i> , 2019, 665, 153-161.	3.9	36
38	Synergistic effects of particulate matter (PM _{2.5}) and sulfur dioxide (SO ₂) on neurodegeneration via the microRNA-mediated regulation of tau phosphorylation. <i>Toxicology Research</i> , 2017, 6, 7-16.	0.9	35
39	Seasonal Variation in Air Particulate Matter (PM ₁₀) Exposure-Induced Ischemia-Like Injuries in the Rat Brain. <i>Chemical Research in Toxicology</i> , 2015, 28, 431-439.	1.7	34
40	Characterization of Synergistic Embryotoxicity of Nickel and Bupropion in Zebrafish. <i>Environmental Science & Technology</i> , 2015, 49, 4600-4608.	4.6	34
41	In vivo screening to determine neurological hazards of nitrogen dioxide (NO ₂) using Wistar rats. <i>Journal of Hazardous Materials</i> , 2012, 225-226, 46-53.	6.5	33
42	Potential hepatic toxicity of bupropion at sublethal concentrations: ROS-mediated conversion of energy metabolism. <i>Journal of Hazardous Materials</i> , 2016, 320, 176-186.	6.5	32
43	Polycyclic aromatic hydrocarbon (PAH)-containing soils from coal gangue stacking areas contribute to epithelial to mesenchymal transition (EMT) modulation on cancer cell metastasis. <i>Science of the Total Environment</i> , 2017, 580, 632-640.	3.9	32
44	MICRONUCLEI INDUCED BY SULFUR DIOXIDE INHALATION IN MOUSE BONE-MARROW CELLS IN VIVO. <i>Inhalation Toxicology</i> , 2002, 14, 303-309.	0.8	30
45	Effects of nitrogen dioxide and its acid mist on reactive oxygen species production and antioxidant enzyme activity in Arabidopsis plants. <i>Journal of Environmental Sciences</i> , 2015, 34, 93-99.	3.2	29
46	A comparison of the toxicity of landfill leachate exposure at the seed soaking and germination stages on Zea mays L. (maize). <i>Journal of Environmental Sciences</i> , 2017, 55, 206-213.	3.2	29
47	Ambient fine particulate matter exposure induces cardiac functional injury and metabolite alterations in middle-aged female mice. <i>Environmental Pollution</i> , 2019, 248, 121-132.	3.7	28
48	Investigating the bio-toxicity of coking wastewater using Zea mays L. assay. <i>Ecotoxicology and Environmental Safety</i> , 2011, 74, 1050-1056.	2.9	27
49	SO ₂ inhalation modulates the expression of apoptosis-related genes in rat hippocampus via its derivatives <i>in vivo</i> . <i>Inhalation Toxicology</i> , 2010, 22, 919-929.	0.8	26
50	Sulfur dioxide inhalation stimulated mitochondrial biogenesis in rat brains. <i>Toxicology</i> , 2012, 300, 67-74.	2.0	26
51	Abnormal energy metabolism and tau phosphorylation in the brains of middle-aged mice in response to atmospheric PM _{2.5} exposure. <i>Journal of Environmental Sciences</i> , 2017, 62, 145-153.	3.2	26
52	SO ₂ inhalation causes synaptic injury in rat hippocampus via its derivatives <i>in vivo</i> . <i>Chemosphere</i> , 2013, 93, 2426-2432.	4.2	25
53	Maternal Exposure of BALB/c Mice to Indoor NO ₂ and Allergic Asthma Syndrome in Offspring at Adulthood with Evaluation of DNA Methylation Associated Th2 Polarization. <i>Environmental Health Perspectives</i> , 2017, 125, 097011.	2.8	25
54	Graphene Quantum Dots Disrupt Embryonic Stem Cell Differentiation by Interfering with the Methylation Level of <i>Sox2</i> . <i>Environmental Science & Technology</i> , 2021, 55, 3144-3155.	4.6	25

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55	Sulfur dioxide inhibits expression of mitochondrial oxidative phosphorylation genes encoded by both nuclear DNA and mitochondrial DNA in rat lungs. <i>Environmental Science and Pollution Research</i> , 2017, 24, 2527-2534.	2.7	22
56	Maternal Exposure to PM _{2.5} Affects Fetal Lung Development at Sensitive Windows. <i>Environmental Science & Technology</i> , 2020, 54, 316-324.	4.6	22
57	Heavy metals in soil from gangue stacking areas increases children health risk and causes developmental neurotoxicity in zebrafish larvae. <i>Science of the Total Environment</i> , 2021, 794, 148629.	3.9	22
58	Sulfate Aerosols Promote Lung Cancer Metastasis by Epigenetically Regulating the Epithelial-to-Mesenchymal Transition (EMT). <i>Environmental Science & Technology</i> , 2017, 51, 11401-11411.	4.6	21
59	Maternal PM _{2.5} exposure and abnormal placental nutrient transport. <i>Ecotoxicology and Environmental Safety</i> , 2021, 207, 111281.	2.9	21
60	New insights into potential estrogen agonistic activity of triazole fungicides and coupled metabolic disturbance. <i>Journal of Hazardous Materials</i> , 2022, 424, 127479.	6.5	21
61	Insights into the removal of polystyrene nanoplastics using the contaminated corncob-derived mesoporous biochar from mining area. <i>Journal of Hazardous Materials</i> , 2022, 433, 128756.	6.5	21
62	Sulfur dioxide and benzo(a)pyrene trigger apoptotic and anti-apoptotic signals at different post-exposure times in mouse liver. <i>Chemosphere</i> , 2015, 139, 318-325.	4.2	20
63	NO ₂ inhalation causes tauopathy by disturbing the insulin signaling pathway. <i>Chemosphere</i> , 2016, 165, 248-256.	4.2	19
64	Chitin synthesis inhibitors promote liver cancer cell metastasis via interfering with hypoxia-inducible factor 1 α . <i>Chemosphere</i> , 2018, 206, 231-237.	4.2	19
65	Exposure to Nitro-PAHs interfere with germination and early growth of <i>Hordeum vulgare</i> via oxidative stress. <i>Ecotoxicology and Environmental Safety</i> , 2019, 180, 756-761.	2.9	19
66	Prenatal NO ₂ exposure and neurodevelopmental disorders in offspring mice: Transcriptomics reveals sex-dependent changes in cerebral gene expression. <i>Environment International</i> , 2020, 138, 105659.	4.8	19
67	Embryonic exposure to oxy-polycyclic aromatic hydrocarbon interfere with pancreatic β -cell development in zebrafish via altering DNA methylation and gene expression. <i>Science of the Total Environment</i> , 2019, 660, 1602-1609.	3.9	17
68	MicroRNA-338-5p modulates pulmonary hypertension-like injuries caused by SO ₂ , NO ₂ and PM _{2.5} co-exposure through targeting the HIF-1 α /Fhl-1 pathway. <i>Toxicology Research</i> , 2016, 5, 1548-1560.	0.9	16
69	Differential effects between one week and four weeks exposure to same mass of SO ₂ on synaptic plasticity in rat hippocampus. <i>Environmental Toxicology</i> , 2016, 31, 820-829.	2.1	16
70	PM _{2.5} exposure induces age-dependent hepatic lipid metabolism disorder in female mice. <i>Journal of Environmental Sciences</i> , 2020, 89, 227-237.	3.2	16
71	Atmospheric PM _{2.5} -bound polycyclic aromatic hydrocarbons in China's four cities: Characterization, risk assessment, and epithelial-to-mesenchymal transition induced by PM _{2.5} . <i>Atmospheric Pollution Research</i> , 2021, 12, 101122.	1.8	16
72	Bisphenol A Analogs Induce Cellular Dysfunction in Human Trophoblast Cells in a Thyroid Hormone Receptor-Dependent Manner: <i>In Silico</i> and <i>In Vitro</i> Analyses. <i>Environmental Science & Technology</i> , 2022, 56, 8384-8394.	4.6	16

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73	Endogenous 2-Arachidonoylglycerol Alleviates Cyclooxygenases-2 Elevation-Mediated Neuronal Injury From SO ₂ Inhalation via PPAR ^γ Pathway. <i>Toxicological Sciences</i> , 2015, 147, 535-548.	1.4	15
74	Comprehensive hippocampal metabolite responses to PM2.5 in young mice. <i>Ecotoxicology and Environmental Safety</i> , 2018, 165, 36-43.	2.9	15
75	Ambient NO ₂ exposure sex-specifically impairs myelin and contributes to anxiety and depression-like behaviors of C57BL/6J mice. <i>Journal of Hazardous Materials</i> , 2021, 416, 125836.	6.5	15
76	NO ₂ inhalation enhances asthma susceptibility in a rat model. <i>Environmental Science and Pollution Research</i> , 2017, 24, 27843-27854.	2.7	14
77	Synergistic effects of sulfur dioxide and polycyclic aromatic hydrocarbons on pulmonary pro-fibrosis via mir-30c-1-3p/ transforming growth factor β type II receptor axis. <i>Chemosphere</i> , 2019, 219, 268-276.	4.2	14
78	Sex difference in bronchopulmonary dysplasia of offspring in response to maternal PM2.5 exposure. <i>Journal of Hazardous Materials</i> , 2020, 389, 122033.	6.5	14
79	Coking wastewater increases micronucleus frequency in mouse in vivo via oxidative stress. <i>Journal of Environmental Sciences</i> , 2013, 25, 2123-2129.	3.2	13
80	PM2.5-associated nitro-PAH exposure promotes tumor cell metastasis through Hippo-YAP mediated transcriptional regulation. <i>Science of the Total Environment</i> , 2019, 678, 611-617.	3.9	13
81	Histone modification in the lung injury and recovery of mice in response to PM2.5 exposure. <i>Chemosphere</i> , 2019, 220, 127-136.	4.2	13
82	Endocannabinoid 2-arachidonoylglycerol protects inflammatory insults from sulfur dioxide inhalation via cannabinoid receptors in the brain. <i>Journal of Environmental Sciences</i> , 2017, 51, 265-274.	3.2	12
83	Embryonic exposure to soil samples from a gangue stacking area induces thyroid hormone disruption in zebrafish. <i>Chemosphere</i> , 2019, 236, 124337.	4.2	12
84	Maternal exposure to NO ₂ enhances airway sensitivity to allergens in BALB/c mice through the JAK-STAT6 pathway. <i>Chemosphere</i> , 2018, 200, 455-463.	4.2	11
85	In vitro PPAR ^γ agonistic potential of chitin synthesis inhibitors and their energy metabolism-related hepatotoxicity. <i>Science of the Total Environment</i> , 2018, 615, 1126-1132.	3.9	11
86	Sulfur dioxide induces apoptosis via reactive oxygen species generation in rat cardiomyocytes. <i>Environmental Science and Pollution Research</i> , 2019, 26, 8758-8767.	2.7	11
87	Suppression of NADPH oxidase 4 inhibits PM2.5-induced cardiac fibrosis through ROS-P38 MAPK pathway. <i>Science of the Total Environment</i> , 2022, 837, 155558.	3.9	11
88	Atmospheric PM2.5 aspiration causes tauopathy by disturbing the insulin signaling pathway. <i>Ecotoxicology and Environmental Safety</i> , 2019, 169, 301-305.	2.9	9
89	Quasi-ultrafine particles promote cell metastasis via HMGB1-mediated cancer cell adhesion. <i>Environmental Pollution</i> , 2020, 256, 113390.	3.7	9
90	Comparative studies on regional variations in PM2.5 in the induction of myocardial hypertrophy in mice. <i>Science of the Total Environment</i> , 2021, 775, 145179.	3.9	9

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91	Sulfur dioxide-induced exacerbation of airway inflammation via reactive oxygen species production and the toll-like receptor 4/nuclear factor- κ B pathway in asthmatic mice. <i>Toxicology and Industrial Health</i> , 2021, 37, 564-572.	0.6	9
92	Assessing the phytotoxicity of different particle-size aged refuse using <i>Zea mays</i> L. bioassay. <i>Chemosphere</i> , 2008, 74, 106-111.	4.2	8
93	Maternal NO ₂ exposure induces cardiac hypertrophy in male offspring via ROS-HIF-1 α transcriptional regulation and aberrant DNA methylation modification of <i>Csx/Nkx2.5</i> . <i>Archives of Toxicology</i> , 2018, 92, 1563-1579.	1.9	8
94	In-situ examination of graphene and graphene oxide impact on the depuration of phenanthrene and fluoranthene adsorbed onto spinach (<i>Spinacia oleracea</i> L.) leaf surfaces. <i>Environmental Pollution</i> , 2018, 237, 968-976.	3.7	7
95	Comprehensive assessment of estrogenic activities of parabens by in silico approach and in vitro assays. <i>Science of the Total Environment</i> , 2022, 845, 157194.	3.9	7
96	Dysfunction of the Hippo-Yap Pathway Drives Lung Cancer Metastasis Induced by 1-Nitropyrene through Adhesion Molecular Activation. <i>Environmental Science and Technology Letters</i> , 2019, 6, 270-276.	3.9	6
97	In situ determination of multiple polycyclic aromatic hydrocarbons uptake by crop leaf surfaces using multi-way models. <i>Environmental Pollution</i> , 2016, 218, 523-529.	3.7	4
98	The Role of Cyclooxygenases-2 in Benzo(<i>a</i>)pyrene-Induced Neurotoxicity of Cortical Neurons. <i>Chemical Research in Toxicology</i> , 2020, 33, 1364-1373.	1.7	4
99	The phytotoxicities of agricultural soil samples from a coal gangue stacking area to several maize cultivars (<i>Zea mays</i> L.). <i>Environmental Science and Pollution Research</i> , 2021, 28, 52319-52328.	2.7	2
100	Investigating photo-driven arsenic ^{III} behavior and their glucose metabolite toxicity by the typical metallic oxides in ambient PM _{2.5} . <i>Ecotoxicology and Environmental Safety</i> , 2020, 191, 110162.	2.9	1
101	Gestational exposure to NO ₂ aggravates placental senescence. <i>Environmental Research</i> , 2022, 212, 113263.	3.7	1
102	Particle matters induce airway epithelial barrier dysfunction in vivo and in vitro: from a more realistic inhalation scenario. <i>Environmental Science: Nano</i> , 0, , .	2.2	0