Anna A Shvedova

List of Publications by Year
in descending order

83	10,199	44069	58581
papers	citations	48 h-index	82 g-index

83	83	83	10399
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Unusual inflammatory and fibrogenic pulmonary responses to single-walled carbon nanotubes in mice. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2005, 289, L698-L708.	2.9	1,144
2	Exposure to Carbon Nanotube Material: Assessment of Nanotube Cytotoxicity using Human Keratinocyte Cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2003, 66, 1909-1926.	2.3	1,104
3	Carbon nanotubes degraded by neutrophil myeloperoxidase induce less pulmonary inflammation. Nature Nanotechnology, 2010, 5, 354-359.	31.5	698
4	Exposure to Carbon Nanotube Material: Aerosol Release During the Handling of Unrefined Single-Walled Carbon Nanotube Material. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2004, 67, 87-107.	2.3	675
5	Mechanisms of carbon nanotube-induced toxicity: Focus on oxidative stress. Toxicology and Applied Pharmacology, 2012, 261, 121-133.	2.8	439
6	Nanotechnology in agriculture: Opportunities, toxicological implications, and occupational risks. Toxicology and Applied Pharmacology, 2017, 329, 96-111.	2.8	373
7	Cardiovascular Effects of Pulmonary Exposure to Single-Wall Carbon Nanotubes. Environmental Health Perspectives, 2007, 115, 377-382.	6.0	359
8	Oxidative stress and inflammatory response in dermal toxicity of single-walled carbon nanotubes. Toxicology, 2009, 257, 161-171.	4.2	323
9	Single-walled Carbon Nanotubes: Geno- and Cytotoxic Effects in Lung Fibroblast V79 Cells. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2007, 70, 2071-2079.	2.3	249
10	Current understanding of interactions between nanoparticles and the immune system. Toxicology and Applied Pharmacology, 2016, 299, 78-89.	2.8	236
11	Close Encounters of the Small Kind: Adverse Effects of Man-Made Materials Interfacing with the Nano-Cosmos of Biological Systems. Annual Review of Pharmacology and Toxicology, 2010, 50, 63-88.	9.4	226
12	Nanomedicine and nanotoxicology: two sides of the same coin. Nanomedicine: Nanotechnology, Biology, and Medicine, 2005, 1, 313-316.	3.3	220
13	Biodegradation of Singleâ€Walled Carbon Nanotubes by Eosinophil Peroxidase. Small, 2013, 9, 2721-2729.	10.0	171
14	Sequential Exposure to Carbon Nanotubes and Bacteria Enhances Pulmonary Inflammation and Infectivity. American Journal of Respiratory Cell and Molecular Biology, 2008, 38, 579-590.	2.9	165
15	Oxidative signaling pathway for externalization of plasma membrane phosphatidylserine during apoptosis. FEBS Letters, 2000, 477, 1-7.	2.8	162
16	In Vivo Evaluation of the Pulmonary Toxicity of Cellulose Nanocrystals: A Renewable and Sustainable Nanomaterial of the Future. ACS Sustainable Chemistry and Engineering, 2014, 2, 1691-1698.	6.7	157
17	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. PLoS ONE, 2012, 7, e30923.	2.5	156
18	Vitamin E deficiency enhances pulmonary inflammatory response and oxidative stress induced by single-walled carbon nanotubes in C57BL/6 mice. Toxicology and Applied Pharmacology, 2007, 221, 339-348.	2.8	144

#	Article	IF	Citations
19	A Natural Vanishing Act: The Enzyme-Catalyzed Degradation of Carbon Nanomaterials. Accounts of Chemical Research, 2012, 45, 1770-1781.	15.6	141
20	Factoring-in agglomeration of carbon nanotubes and nanofibers for better prediction of their toxicity versus asbestos. Particle and Fibre Toxicology, 2012, 9, 10.	6.2	138
21	Lung Macrophages â€œDigestâ€•Carbon Nanotubes Using a Superoxide/Peroxynitrite Oxidative Pathway. ACS Nano, 2014, 8, 5610-5621.	14.6	127
22	Fibrosis biomarkers in workers exposed to MWCNTs. Toxicology and Applied Pharmacology, 2016, 299, 125-131.	2.8	127
23	Direct Effects of Carbon Nanotubes on Dendritic Cells Induce Immune Suppression Upon Pulmonary Exposure. ACS Nano, 2011, 5, 5755-5762.	14.6	116
24	Phosphatidylserine Targets Single-Walled Carbon Nanotubes to Professional Phagocytes In Vitro and In Vivo. PLoS ONE, 2009, 4, e4398.	2.5	108
25	Long-term effects of carbon containing engineered nanomaterials and asbestos in the lung: one year postexposure comparisons. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2014, 306, L170-L182.	2.9	104
26	Mitochondrial targeting of electron scavenging antioxidants: Regulation of selective oxidation vs random chain reactionsâ˜†. Advanced Drug Delivery Reviews, 2009, 61, 1375-1385.	13.7	103
27	Comparative Proteomics and Pulmonary Toxicity of Instilled Single-Walled Carbon Nanotubes, Crocidolite Asbestos, and Ultrafine Carbon Black in Mice. Toxicological Sciences, 2011, 120, 123-135.	3.1	103
28	Increased accumulation of neutrophils and decreased fibrosis in the lung of NADPH oxidase-deficient C57BL/6 mice exposed to carbon nanotubes. Toxicology and Applied Pharmacology, 2008, 231, 235-240.	2.8	94
29	Redox Cycling of Phenol Induces Oxidative Stress in Human Epidermal Keratinocytes. Journal of Investigative Dermatology, 2000, 114, 354-364.	0.7	89
30	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. Toxicology and Applied Pharmacology, 2016, 299, 58-69.	2.8	89
31	Fibrillar vs crystalline nanocellulose pulmonary epithelial cell responses: Cytotoxicity or inflammation?. Chemosphere, 2017, 171, 671-680.	8.2	84
32	Oxidative Stress and Dermal Toxicity of Iron Oxide Nanoparticles In Vitro. Cell Biochemistry and Biophysics, 2013, 67, 461-476.	1.8	80
33	The role of nanotoxicology in realizing the â€˜helping without harmâ€™ paradigm of nanomedicine: lessons from studies of pulmonary effects of singleâ€walled carbon nanotubes. Journal of Internal Medicine, 2010, 267, 106-118.	6.0	76
34	Graphene Oxide, But Not Fullerenes, Targets Immunoproteasomes and Suppresses Antigen Presentation by Dendritic Cells. Small, 2013, 9, 1686-1690.	10.0	75
35	Citrullination of proteins: a common post-translational modification pathway induced by different nanoparticles in vitro and in vivo. Nanomedicine, 2012, 7, 1181-1195.	3.3	72
36	Integrated Analysis of Dysregulated ncRNA and mRNA Expression Profiles in Humans Exposed to Carbon Nanotubes. PLoS ONE, 2016, 11, e0150628.	2.5	70

#	Article	IF	Citations
37	Global Phospholipidomics Analysis Reveals Selective Pulmonary Peroxidation Profiles upon Inhalation of Single-Walled Carbon Nanotubes. ACS Nano, 2011, 5, 7342-7353.	14.6	64
38	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. Particle and Fibre Toxicology, 2015, 13, 28.	6.2	64
39	Mass-spectrometric analysis of hydroperoxy- and hydroxy-derivatives of cardiolipin and phosphatidylserine in cells and tissues induced by pro-apoptotic and pro-inflammatory stimuli. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 2863-2872.	2.3	63
40	Macrophage sensing of single-walled carbon nanotubes via Toll-like receptors. Scientific Reports, 2018, 8, 1115.	3.3	62
41	Carbon Nanotubes Enhance Metastatic Growth of Lung Carcinoma via Upâ€Regulation of Myeloidâ€Derived Suppressor Cells. Small, 2013, 9, 1691-1695.	10.0	61
42	Aerosolization of Single-Walled Carbon Nanotubes for an Inhalation Study. Inhalation Toxicology, 2008, 20, 751-760.	1.6	59
43	Single-walled carbon nanotubes impair human macrophage engulfment of apoptotic cell corpses. Inhalation Toxicology, 2009, 21, 131-136.	1.6	52
44	Molecular modeling in structural nano-toxicology: Interactions of nano-particles with nano-machinery of cells. Advanced Drug Delivery Reviews, 2013, 65, 2070-2077.	13.7	52
45	Graphene Oxide Attenuates Th2-Type Immune Responses, but Augments Airway Remodeling and Hyperresponsiveness in a Murine Model of Asthma. ACS Nano, 2014, 8, 5585-5599.	14.6	51
46	Biodiesel versus diesel exposure: Enhanced pulmonary inflammation, oxidative stress, and differential morphological changes in the mouse lung. Toxicology and Applied Pharmacology, 2013, 272, 373-383.	2.8	50
47	MDSC and TGFÎ² Are Required for Facilitation of Tumor Growth in the Lungs of Mice Exposed to Carbon Nanotubes. Cancer Research, 2015, 75, 1615-1623.	0.9	50
48	Size-dependent effects of tungsten carbideâ€“cobalt particles on oxygen radical production and activation of cell signaling pathways in murine epidermal cells. Toxicology and Applied Pharmacology, 2009, 241, 260-268.	2.8	49
49	Oxidative Stress, Inflammatory Biomarkers, and Toxicity in Mouse Lung and Liver after Inhalation Exposure to 100% Biodiesel or Petroleum Diesel Emissions. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2013, 76, 907-921.	2.3	49
50	Pulmonary exposure to cellulose nanocrystals caused deleterious effects to reproductive system in male mice. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2016, 79, 984-997.	2.3	45
51	Fibrous nanocellulose, crystalline nanocellulose, carbon nanotubes, and crocidolite asbestos elicit disparate immune responses upon pharyngeal aspiration in mice. Journal of Immunotoxicology, 2018, 15, 12-23.	1.7	45
52	There's plenty of room at the forum: Potential risks and safety assessment of engineered nanomaterials. Nanotoxicology, 2007, 1, 73-84.	3.0	44
53	Selective Peroxidation and Externalization of Phosphatidylserine in Normal Human Epidermal Keratinocytes During Oxidative Stress Induced by Cumene Hydroperoxide. Journal of Investigative Dermatology, 2002, 118, 1008-1018.	0.7	38
54	In Vitro Toxicity Evaluation of Lignin-(Un)coated Cellulose Based Nanomaterials on Human A549 and THP-1 Cells. Biomacromolecules, 2016, 17, 3464-3473.	5.4	33

#	Article	IF	Citations
55	Applied Nanotoxicology. International Journal of Toxicology, 2016, 35, 5-16.	1.2	32
56	Toward Mechanismâ€based Antioxidant Interventions. Annals of the New York Academy of Sciences, 2002, 959, 188-198.	3.8	31
57	Dual Acute Proinflammatory and Antifibrotic Pulmonary Effects of Short Palate, Lung, and Nasal Epithelium Cloneâ€"1 after Exposure to Carbon Nanotubes. American Journal of Respiratory Cell and Molecular Biology, 2013, 49, 759-767.	2.9	31
58	Nanotoxicology ten years later: Lights and shadows. Toxicology and Applied Pharmacology, 2016, 299, 1-2.	2.8	31
59	ESR evidence for in vivo formation of free radicals in tissue of mice exposed to single-walled carbon nanotubes. Free Radical Biology and Medicine, 2014, 73, 154-165.	2.9	27
60	DERMAL AND SYSTEMIC TOXICITY AFTER APPLICATION OF SEMISYNTHETIC METAL-WORKING FLUIDS IN B6C3F1 MICE. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2000, 61, 579-589.	2.3	24
61	Fantastic voyage and opportunities of engineered nanomaterials: What are the potential risks of occupational exposures?. Journal of Occupational and Environmental Medicine, 2010, 52, 943-946.	1.7	23
62	Antioxidant Balance and Free Radical Generation in Vitamin E-Deficient Mice after Dermal Exposure to Cumene Hydroperoxide. Chemical Research in Toxicology, 2002, 15, 1451-1459.	3.3	20
63	Mediation of the single-walled carbon nanotubes induced pulmonary fibrogenic response by osteopontin and TGF-Î²1. Experimental Lung Research, 2017, 43, 311-326.	1.2	19
64	Pro/antioxidant Status in Murine Skin Following Topical Exposure to Cumene Hydroperoxide Throughout the Ontogeny of Skin Cancer. Biochemistry (Moscow), 2004, 69, 23-31.	1.5	18
65	Pulmonary exposure to single-walled carbon nanotubes does not affect the early immune response against Toxoplasma gondii. Particle and Fibre Toxicology, 2012, 9, 16.	6.2	18
66	Abnormalities in the male reproductive system after exposure to diesel and biodiesel blend. Environmental and Molecular Mutagenesis, 2015, 56, 265-276.	2.2	18
67	Hollow carbon spheres trigger inflammasome-dependent IL-1Î² secretion in macrophages. Carbon, 2017, 113, 243-251.	10.3	18
68	Enhanced oxidative stress in the skin of vitamin E deficient mice exposed to semisynthetic metal working fluids. Toxicology, 2002, 176, 135-143.	4.2	16
69	Quantitative Analysis of Phospholipid Peroxidation and Antioxidant Protection in Live Human Epidermal Keratinocytes. Bioscience Reports, 2001, 21, 33-43.	2.4	15
70	Ins and Outs in Environmental and Occupational Safety Studies of Asthma and Engineered Nanomaterials. ACS Nano, 2017, 11, 7565-7571.	14.6	14
71	Mutagenicity of biodiesel or diesel exhaust particles and the effect of engine operating conditions. Journal of Environmental Engineering & Ecological Science, 2013, 2, 3.	0.7	13
72	Elevated oxidative stress in skin of B6C3F1 mice affects dermal exposure to metal working fluid. Toxicology and Industrial Health, 2000, 16, 267-276.	1.4	12

#	Article	IF	Citations
73	Comparative analysis of lung and blood transcriptomes in mice exposed to multi-walled carbon nanotubes. Toxicology and Applied Pharmacology, 2020, 390, 114898.	2.8	12
74	tert-butyl hydroperoxide/hemoglobin-induced oxidative stress and damage to vascular smooth muscle cells. Biochemical Pharmacology, 1999, 57, 989-1001.	4.4	11
75	Characterization of pulmonary responses in mice to asbestos/asbestiform fibers using gene expression profiles. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2018, 81, 60-79.	2.3	11
76	[14] Peroxidation of phosphatidylserine in mechanisms of apoptotic signaling. Methods in Enzymology, 2002, 352, 159-174.	1.0	10
77	Comparative cytotoxicity of respirable surface-treated/untreated calcium carbonate rock dust particles in vitro. Toxicology and Applied Pharmacology, 2019, 362, 67-76.	2.8	10
78	Galvanic Manufacturing in the Cities of Russia: Potential Source of Ambient Nanoparticles. PLoS ONE, 2014, 9, e110573.	2.5	9
79	Multi-walled carbon nanotubes elicit concordant changes in DNA methylation and gene expression following long-term pulmonary exposure in mice. Carbon, 2021, 178, 563-572.	10.3	8
80	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). Small, 2013, 9, 2720-2720.	10.0	6
81	Differential responses of murine alveolar macrophages to elongate mineral particles of asbestiform and non-asbestiform varieties: Cytotoxicity, cytokine secretion and transcriptional changes. Toxicology and Applied Pharmacology, 2020, 409, 115302.	2.8	6
82	Metal working fluids: sub-chronic effects on pulmonary functions in B6C3F1 mice given vitamin E deficient and sufficient diets. Toxicology, 2002, 177, 285-297.	4.2	5
83	Respiratory System, Part Two: Allergy and Asthma. , 2017, , 243-253.		3