Stephen S Leonard

List of Publications by Year
in descending order

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65 papers	6,149 citations	101384 36 h-index	128067 60 g-index
66 all docs	66 docs citations	66 times ranked	8544 citing authors

#	Article	IF	Citations
1	Shape-Enhanced Photocatalytic Activity of Single-Crystalline Anatase TiO₂ (101) Nanobelts. Journal of the American Chemical Society, 2010, 132, 6679-6685.	6.6	680
2	Resveratrol scavenges reactive oxygen species and effects radical-induced cellular responses. Biochemical and Biophysical Research Communications, 2003, 309, 1017-1026.	1.0	577
3	Cadmium inhibits the electron transfer chain and induces Reactive Oxygen Species. Free Radical Biology and Medicine, 2004, 36, 1434-1443.	1.3	567
4	Metal-induced oxidative stress and signal transduction. Free Radical Biology and Medicine, 2004, 37, 1921-1942.	1.3	532
5	Role of Reactive Oxygen Species and p53 in Chromium(VI)-induced Apoptosis. Journal of Biological Chemistry, 1999, 274, 34974-34980.	1.6	258
6	Concept of Assessing Nanoparticle Hazards Considering Nanoparticle Dosemetric and Chemical/Biological Response Metrics. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2010, 73, 445-461.	1.1	227
7	Vanadate-induced Expression of Hypoxia-inducible Factor 1Î± and Vascular Endothelial Growth Factor through Phosphatidylinositol 3-Kinase/Akt Pathway and Reactive Oxygen Species. Journal of Biological Chemistry, 2002, 277, 31963-31971.	1.6	179
8	S-Nitrosylation of Bcl-2 Inhibits Its Ubiquitin-Proteasomal Degradation. Journal of Biological Chemistry, 2006, 281, 34124-34134.	1.6	177
9	Vanadate Induces p53 Transactivation through Hydrogen Peroxide and Causes Apoptosis. Journal of Biological Chemistry, 2000, 275, 32516-32522.	1.6	163
10	Role of reactive oxygen species and MAPKs in vanadate-induced G2/M phase arrest. Free Radical Biology and Medicine, 2003, 34, 1333-1342.	1.3	134
11	Antioxidant properties of aspirin: characterization of the ability of aspirin to inhibit silica-induced lipid peroxidation, DNA damage, NF-kappaB activation, and TNF-alpha production. Molecular and Cellular Biochemistry, 1999, 199, 93-102.	1.4	125
12	Diabetic cardiomyopathy-associated dysfunction in spatially distinct mitochondrial subpopulations. American Journal of Physiology - Heart and Circulatory Physiology, 2009, 296, H359-H369.	1.5	122
13	Vanadate-Induced Cell Growth Regulation and the Role of Reactive Oxygen Species. Archives of Biochemistry and Biophysics, 2001, 392, 311-320.	1.4	119
14	p38 Signaling-mediated Hypoxia-inducible Factor 1Î± and Vascular Endothelial Growth Factor Induction by Cr(VI) in DU145 Human Prostate Carcinoma Cells. Journal of Biological Chemistry, 2002, 277, 45041-45048.	1.6	119
15	Arsenite induces HIF-1Î± and VEGF through PI3K, Akt and reactive oxygen species in DU145 human prostate carcinoma cells. Molecular and Cellular Biochemistry, 2004, 255, 33-45.	1.4	117
16	The role of hydroxyl radical as a messenger in Cr(VI)-induced p53 activation. American Journal of Physiology - Cell Physiology, 2000, 279, C868-C875.	2.1	114
17	Metal-induced toxicity, carcinogenesis, mechanisms and cellular responses. Molecular and Cellular Biochemistry, 2004, 255, 3-10.	1.4	105
18	Vanadate-induced activation of activator protein-1: role of reactive oxygen species. Carcinogenesis, 1999, 20, 663-668.	1.3	98

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19	Wood smoke particles generate free radicals and cause lipid peroxidation, DNA damage, NFÎºB activation and TNF-Î± release in macrophages. Toxicology, 2000, 150, 147-157.	2.0	96
20	UV Induces Phosphorylation of Protein Kinase B (Akt) at Ser-473 and Thr-308 in Mouse Epidermal Cl 41 Cells through Hydrogen Peroxide. Journal of Biological Chemistry, 2001, 276, 40234-40240.	1.6	86
21	Cr(IV) causes activation of nuclear transcription factor-ÎºB, DNA strand breaks and dG hydroxylation via free radical reactions. Journal of Inorganic Biochemistry, 1999, 75, 37-44.	1.5	80
22	The role of hydroxyl radical as a messenger in the activation of nuclear transcription factor NF-kappaB. Molecular and Cellular Biochemistry, 1999, 194, 63-70.	1.4	80
23	Assessment of reactive oxygen species generated by electronic cigarettes using acellular and cellular approaches. Journal of Hazardous Materials, 2018, 344, 549-557.	6.5	77
24	Vanadium-induced Nuclear Factor of Activated T Cells Activation through Hydrogen Peroxide. Journal of Biological Chemistry, 2001, 276, 22397-22403.	1.6	72
25	Particle size-dependent radical generation from wildland fire smoke. Toxicology, 2007, 236, 103-113.	2.0	72
26	Comparison of stainless and mild steel welding fumes in generation of reactive oxygen species. Particle and Fibre Toxicology, 2010, 7, 32.	2.8	69
27	Inhibition of xanthine oxidase reduces oxidative stress and improves skeletal muscle function in response to electrically stimulated isometric contractions in aged mice. Free Radical Biology and Medicine, 2011, 51, 38-52.	1.3	68
28	Effect of stainless steel manual metal arc welding fume on free radical production, DNA damage, and apoptosis induction. Molecular and Cellular Biochemistry, 2005, 279, 17-23.	1.4	59
29	PbCrO4mediates cellular responses via reactive oxygen species. Molecular and Cellular Biochemistry, 2004, 255, 171-179.	1.4	50
30	Vanadate induces apoptosis in epidermal JB6 P+ cells via hydrogen peroxide-mediated reactions. Molecular and Cellular Biochemistry, 1999, 202, 9-17.	1.4	49
31	CR (VI) induces cell growth arrest through hydrogen peroxideâ€mediated reactions. Molecular and Cellular Biochemistry, 2001, 222, 77-83.	1.4	49
32	Essiac tea: Scavenging of reactive oxygen species and effects on DNA damage. Journal of Ethnopharmacology, 2006, 103, 288-296.	2.0	49
33	Title is missing!. Molecular and Cellular Biochemistry, 2001, 222, 221-229.	1.4	46
34	Differential role of hydrogen peroxide in UV-induced signal transduction. Molecular and Cellular Biochemistry, 2002, 234/235, 81-90.	1.4	45
35	Toxicology of flavoring- and cannabis-containing e-liquids used in electronic delivery systems. , 2021, 224, 107838.		43
36	A Comparison of Cytotoxicity and Oxidative Stress from Welding Fumes Generated with a New Nickel-, Copper-Based Consumable versus Mild and Stainless Steel-Based Welding in RAW 264.7 Mouse Macrophages. PLoS ONE, 2014, 9, e101310.	1.1	40

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37	Antioxidant properties of fruit and vegetable juices: more to the story than ascorbic acid. Annals of Clinical and Laboratory Science, 2002, 32, 193-200.	0.2	39
38	Activation of JNK by Vanadate Induces a Fas-associated Death Domain (FADD)-dependent Death of Cerebellar Granule Progenitors in Vitro. Journal of Biological Chemistry, 2003, 278, 4542-4551.	1.6	36
39	Cr(VI) increases tyrosine phosphorylation through reactive oxygen species-mediated reactions. Molecular and Cellular Biochemistry, 2001, 222, 199-204.	1.4	35
40	Blackberry Extracts Inhibit Activating Protein 1 Activation and Cell Transformation by Perturbing the Mitogenic Signaling Pathway. Nutrition and Cancer, 2004, 50, 80-89.	0.9	35
41	An integrated electrolysis â€“ electrospray â€“ ionization antimicrobial platform using Engineered Water Nanostructures (EWNS) for food safety applications. Food Control, 2018, 85, 151-160.	2.8	34
42	Temporal Changes in Rat Liver Gene Expression after Acute Cadmium and Chromium Exposure. PLoS ONE, 2015, 10, e0127327.	1.1	33
43	Protective Roles of NF-ÎºB for Chromium(VI)-induced Cytotoxicity Is Revealed by Expression of IÎºB Kinase-Î² Mutant. Journal of Biological Chemistry, 2002, 277, 3342-3349.	1.6	32
44	Cytotoxicity and Characterization of Particles Collected From an Indiumâ€“Tin Oxide Production Facility. Journal of Toxicology and Environmental Health - Part A: Current Issues, 2014, 77, 1193-1209.	1.1	30
45	Intravenous and Gastric Cerium Dioxide Nanoparticle Exposure Disrupts Microvascular Smooth Muscle Signaling. Toxicological Sciences, 2015, 144, 77-89.	1.4	29
46	Role of engineered metal oxide nanoparticle agglomeration in reactive oxygen species generation and cathepsin B release in NLRP3 inflammasome activation and pulmonary toxicity. Inhalation Toxicology, 2016, 28, 686-697.	0.8	29
47	Role of reactive oxygen species and Cr(VI) in Ras-mediated signal transduction. Molecular and Cellular Biochemistry, 2004, 255, 119-127.	1.4	28
48	Metal composition and solubility determine lung toxicity induced by residual oil fly ash collected from different sites within a power plant. Molecular and Cellular Biochemistry, 2004, 255, 257-265.	1.4	28
49	Cr(III)-mediated hydroxyl radical generation via Haber-Weiss cycle. Journal of Inorganic Biochemistry, 1998, 69, 263-268.	1.5	24
50	Analysis of Freeâ€Radical Scavenging of Yerba Mate (Ilex paraguriensis) using Electron Spin Resonance and Radicalâ€Induced DNA Damage. Journal of Food Science, 2010, 75, C14-20.	1.5	19
51	Differential role of hydrogen peroxide in UV-induced signal transduction. Molecular and Cellular Biochemistry, 2002, 234-235, 81-90.	1.4	16
52	Generation of reactive oxygen species in the enzymatic reduction of PbCrO4 and related DNA damage. Molecular and Cellular Biochemistry, 2002, 234/235, 309-315.	1.4	15
53	Comparison of Free Radical Generation by Pre- and Post-Sintered Cemented Carbide Particles. Journal of Occupational and Environmental Hygiene, 2009, 7, 23-34.	0.4	15
54	Biological effects of inhaled hydraulic fracturing sand dust. III. Cytotoxicity and pro-inflammatory responses in cultured murine macrophage cells. Toxicology and Applied Pharmacology, 2020, 408, 115281.	1.3	14

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55	Cr (VI) induces cell growth arrest through hydrogen peroxide-mediated reactions. , 2001, , 77-83.		14
56	Generation of reactive oxygen species in the enzymatic reduction of PbCrO4and related DNA damage. , 2002, , 309-315.		12
57	Title is missing!. Molecular and Cellular Biochemistry, 2002, 234/235, 369-377.	1.4	12
58	Generation of reactive oxygen species in the enzymatic reduction of PbCrO4 and related DNA damage. Molecular and Cellular Biochemistry, 2002, 234-235, 309-15.	1.4	11
59	In vivo bioassays of acute asbestosis and its correlation with ESR spectroscopy and imaging in redox status. Molecular and Cellular Biochemistry, 2002, 234-235, 369-77.	1.4	8
60	Generation of Reactive Oxygen Species from Silicon Nanowires. Environmental Health Insights, 2014, 8s1, EHI.S15261.	0.6	7
61	Comparison of the toxicity of sintered and unsintered indium-tin oxide particles in murine macrophage and epidermal cells. Toxicology and Applied Pharmacology, 2017, 331, 85-93.	1.3	7
62	Glutathione conjugation of busulfan produces a hydroxyl radical-trapping dehydroalanine metabolite. Xenobiotica, 2012, 42, 1170-1177.	0.5	6
63	On the mechanism of Cr (VI)-induced carcinogenesis: Dose dependence of uptake and cellular responses. , 2001, , 221-229.		4
64	Differential role of hydrogen peroxide in UV-induced signal transduction. , 2002, , 81-90.		4
65	Cr (Vi) Increases Tyrosine Phosphorylation Through Reactive Oxygen Species-Mediated Reactions. , 2001, , 199-204.		0