Valerian E Kagan

List of Publications by Year
in descending order

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369 papers	41,438 citations	3334 91 h-index	3182 186 g-index
374 all docs	374 docs citations	374 times ranked	35832 citing authors

#	Article	IF	Citations
1	Ferroptosis induces membrane blebbing in placental trophoblasts. Journal of Cell Science, 2022, 135, .	2.0	28
2	Syrian hamsters as a model of lung injury with SARS-CoV-2 infection: Pathologic, physiologic, and detailed molecular profiling. Translational Research, 2022, 240, 1-16.	5.0	33
3	15LO1 dictates glutathione redox changes in asthmatic airway epithelium to worsen type 2 inflammation. Journal of Clinical Investigation, 2022, 132, .	8.2	45
4	C-ferroptosis is an iron-dependent form of regulated cell death in cyanobacteria. Journal of Cell Biology, 2022, 221, .	5.2	26
5	Myeloid Cellâ€"Derived Oxidized Lipids and Regulation of the Tumor Microenvironment. Cancer Research, 2022, 82, 187-194.	0.9	14
6	Inactivation of RIP3 kinase sensitizes to 15LOX/PEBP1-mediated ferroptotic death. Redox Biology, 2022, 50, 102232.	9.0	15
7	P. aeruginosa augments irradiation injury via 15-lipoxygenaseâ€"catalyzed generation of 15-HpETE-PE and induction of theft-ferroptosis. JCI Insight, 2022, 7, .	5.0	14
8	Integrated -omics approach reveals persistent DNA damage rewires lipid metabolism and histone hyperacetylation via MYS-1/Tip60. Science Advances, 2022, 8, eabl6083.	10.3	10
9	Necroptosis triggers spatially restricted neutrophil-mediated vascular damage during lung ischemia reperfusion injury. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2111537119.	7.1	23
10	Nitrogen-Doped Carbon Nanotube Cups for Cancer Therapy. ACS Applied Nano Materials, 2022, 5, 13685-13696.	5.0	4
11	Guidelines for measuring reactive oxygen species and oxidative damage in cells and in vivo. Nature Metabolism, 2022, 4, 651-662.	11.9	356
12	Iron Chaperone Poly rC Binding Protein 1 Protects Mouse Liver From Lipid Peroxidation and Steatosis. Hepatology, 2021, 73, 1176-1193.	7.3	101
13	Resolving the paradox of ferroptotic cell death: Ferrostatin-1 binds to 15LOX/PEBP1 complex, suppresses generation of peroxidized ETE-PE, and protects against ferroptosis. Redox Biology, 2021, 38, 101744.	9.0	67
14	Lipids as regulators of inflammation and tissue regeneration. , 2021, , 175-193.		0
15	Phospholipase iPLA2Î² averts ferroptosis by eliminating a redox lipid death signal. Nature Chemical Biology, 2021, 17, 465-476.	8.0	168
16	Ferroptotic cell death triggered by conjugated linolenic acids is mediated by ACSL1. Nature Communications, 2021, 12, 2244.	12.8	104
17	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIBâ€SIMS). Angewandte Chemie - International Edition, 2021, 60, 11784-11788.	13.8	38
18	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIBâ€SIMS). Angewandte Chemie, 2021, 133, 11890-11894.	2.0	4

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19	NOâ—•Represses the Oxygenation of Arachidonoyl PE by 15LOX/PEBP1: Mechanism and Role in Ferroptosis. International Journal of Molecular Sciences, 2021, 22, 5253.	4.1	19
20	Successive High-Resolution (H₂O)_n-GCIB and C₆₀-SIMS Imaging Integrates Multi-Omics in Different Cell Types in Breast Cancer Tissue. Analytical Chemistry, 2021, 93, 8143-8151.	6.5	38
21	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimerâ€™s disease. Nature Communications, 2021, 12, 3416.	12.8	57
22	Prokineticin-2 prevents neuronal cell deaths in a model of traumatic brain injury. Nature Communications, 2021, 12, 4220.	12.8	48
23	Activation of Cytochrome C Peroxidase Function Through Coordinated Foldon Loop Dynamics upon Interaction with Anionic Lipids. Journal of Molecular Biology, 2021, 433, 167057.	4.2	5
24	A new thiol-independent mechanism of epithelial host defense against Pseudomonas aeruginosa: iNOS/NOâ€¢ sabotage of theft-ferroptosis. Redox Biology, 2021, 45, 102045.	9.0	40
25	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. Redox Biology, 2021, 45, 102021.	9.0	88
26	Keratinocyte death by ferroptosis initiates skin inflammation after UVB exposure. Redox Biology, 2021, 47, 102143.	9.0	47
27	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. Journal of Clinical Investigation, 2021, 131, .	8.2	31
28	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. Journal of Neurotrauma, 2020, 37, 2353-2371.	3.4	31
29	Redox phospholipidomics of enzymatically generated oxygenated phospholipids as specific signals of programmed cell death. Free Radical Biology and Medicine, 2020, 147, 231-241.	2.9	44
30	Bioactive Oxylipins in Infants and Children With Congenital Heart Disease Undergoing Pediatric Cardiopulmonary Bypass. Pediatric Critical Care Medicine, 2020, 21, 33-41.	0.5	10
31	PLA2G6 guards placental trophoblasts against ferroptotic injury. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 27319-27328.	7.1	98
32	Lysocardiolipin acyltransferase regulates NSCLC cell proliferation and migration by modulating mitochondrial dynamics. Journal of Biological Chemistry, 2020, 295, 13393-13406.	3.4	12
33	Excessive phospholipid peroxidation distinguishes ferroptosis from other cell death modes including pyroptosis. Cell Death and Disease, 2020, 11, 922.	6.3	126
34	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. Analytical Chemistry, 2020, 92, 12880-12890.	6.5	11
35	PEBP1 acts as a rheostat between prosurvival autophagy and ferroptotic death in asthmatic epithelial cells. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 14376-14385.	7.1	57
36	Redox lipid reprogramming commands susceptibility of macrophages and microglia to ferroptotic death. Nature Chemical Biology, 2020, 16, 278-290.	8.0	299

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37	Achieving Life through Death: Redox Biology of Lipid Peroxidation in Ferroptosis. Cell Chemical Biology, 2020, 27, 387-408.	5.2	144
38	Lipidomics and RNA sequencing reveal a novel subpopulation of nanovesicle within extracellular matrix biomaterials. Science Advances, 2020, 6, eaay4361.	10.3	54
39	Mitochondrial damage & lipid signaling in traumatic brain injury. Experimental Neurology, 2020, 329, 113307.	4.1	34
40	Redox Epiphospholipidome in Programmed Cell Death Signaling: Catalytic Mechanisms and Regulation. Frontiers in Endocrinology, 2020, 11, 628079.	3.5	16
41	Polymorphonuclear myeloid-derived suppressor cells limit antigen cross-presentation by dendritic cells in cancer. JCI Insight, 2020, 5, .	5.0	72
42	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. Neuropharmacology, 2019, 145, 209-219.	4.1	26
43	Serineâ€47 phosphorylation of cytochrome c in the mammalian brain regulates cytochrome c oxidase and caspaseâ€3 activity. FASEB Journal, 2019, 33, 13503-13514.	0.5	26
44	Secondaryâ€Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. Angewandte Chemie - International Edition, 2019, 58, 3156-3161.	13.8	57
45	Secondaryâ€Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. Angewandte Chemie, 2019, 131, 3188-3193.	2.0	23
46	Interrogating Parkinson's disease associated redox targets: Potential application of CRISPR editing. Free Radical Biology and Medicine, 2019, 144, 279-292.	2.9	18
47	Redox (phospho)lipidomics of signaling in inflammation and programmed cell death. Journal of Leukocyte Biology, 2019, 106, 57-81.	3.3	33
48	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. Experimental Neurology, 2019, 316, 63-73.	4.1	16
49	Fatty acid transport proteinÂ2 reprograms neutrophils in cancer. Nature, 2019, 569, 73-78.	27.8	440
50	Surface-Binding to Cardiolipin Nanodomains Triggers Cytochrome c Pro-apoptotic Peroxidase Activity via Localized Dynamics. Structure, 2019, 27, 806-815.e4.	3.3	28
51	â€œRedox lipidomics technology: Looking for a needle in a haystackâ€. Chemistry and Physics of Lipids, 2019, 221, 93-107.	3.2	35
52	Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury*. Critical Care Medicine, 2019, 47, 410-418.	0.9	191
53	Characterization of Differential Dynamics, Specificity, and Allostery of Lipoxygenase Family Members. Journal of Chemical Information and Modeling, 2019, 59, 2496-2508.	5.4	34
54	Lipidomics Detection of Brain Cardiolipins in Plasma Is Associated With Outcome After Cardiac Arrest. Critical Care Medicine, 2019, 47, e292-e300.	0.9	19

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55	Iron catalysis of lipid peroxidation in ferroptosis: Regulated enzymatic or random free radical reaction?. Free Radical Biology and Medicine, 2019, 133, 153-161.	2.9	212
56	Mitochondria modulate programmed neuritic retraction. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 650-659.	7.1	29
57	Cardiolipin-Dependent Mitophagy Guides Outcome after Traumatic Brain Injury. Journal of Neuroscience, 2019, 39, 1930-1943.	3.6	71
58	Ferroptotic cell death and TLR4/Trif signaling initiate neutrophil recruitment after heart transplantation. Journal of Clinical Investigation, 2019, 129, 2293-2304.	8.2	283
59	NME4/nucleoside diphosphate kinase D in cardiolipin signaling and mitophagy. Laboratory Investigation, 2018, 98, 228-232.	3.7	29
60	Structural characterization of cardiolipin-driven activation of cytochrome c into a peroxidase and membrane perturbation. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1057-1068.	2.6	32
61	FINO2 initiates ferroptosis through GPX4 inactivation and iron oxidation. Nature Chemical Biology, 2018, 14, 507-515.	8.0	471
62	Lipid homeostasis and inflammatory activation are disturbed in classically activated macrophages with peroxisomal Î²â€oxidation deficiency. Immunology, 2018, 153, 342-356.	4.4	13
63	â€œOnly a Life Lived for Others Is Worth Livingâ€• Redox Signaling by Oxygenated Phospholipids in Cell Fate Decisions. Antioxidants and Redox Signaling, 2018, 29, 1333-1358.	5.4	33
64	2357 Lost and found: Detection of brain cardiolipins in plasma after cardiac arrest. Journal of Clinical and Translational Science, 2018, 2, 17-17.	0.6	0
65	Empowerment of 15-Lipoxygenase Catalytic Competence in Selective Oxidation of Membrane ETE-PE to Ferroptotic Death Signals, HpETE-PE. Journal of the American Chemical Society, 2018, 140, 17835-17839.	13.7	63
66	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. Nanoscale, 2018, 10, 17990-18000.	5.6	20
67	Nano-targeted induction of dual ferroptotic mechanisms eradicates high-risk neuroblastoma. Journal of Clinical Investigation, 2018, 128, 3341-3355.	8.2	406
68	Pseudomonas aeruginosa utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. Journal of Clinical Investigation, 2018, 128, 4639-4653.	8.2	159
69	Regulation of lipid peroxidation and ferroptosis in diverse species. Genes and Development, 2018, 32, 602-619.	5.9	339
70	Oxidized phospholipid signaling in traumatic brain injury. Free Radical Biology and Medicine, 2018, 124, 493-503.	2.9	63
71	Genetic re-engineering of polyunsaturated phospholipid profile of Saccharomyces cerevisiae identifies a novel role for Cld1 in mitigating the effects of cardiolipin peroxidation. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2018, 1863, 1354-1368.	2.4	16
72	Aberrant cardiolipin metabolism is associated with cognitive deficiency and hippocampal alteration in tafazzin knockdown mice. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2018, 1864, 3353-3367.	3.8	24

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73	Disentangling oxidation/hydrolysis reactions of brain mitochondrial cardiolipins in pathogenesis of traumatic injury. JCI Insight, 2018, 3, .	5.0	31
74	The mito-DAMP cardiolipin blocks IL-10 production causing persistent inflammation during bacterial pneumonia. Nature Communications, 2017, 8, 13944.	12.8	94
75	Elimination of the unnecessary: Intra- and extracellular signaling by anionic phospholipids. Biochemical and Biophysical Research Communications, 2017, 482, 482-490.	2.1	12
76	Global assessment of oxidized free fatty acids in brain reveals an enzymatic predominance to oxidative signaling after trauma. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2017, 1863, 2601-2613.	3.8	20
77	Nanoemitters and innate immunity: the role of surfactants and bio-coronas in myeloperoxidase-catalyzed oxidation of pristine single-walled carbon nanotubes. Nanoscale, 2017, 9, 5948-5956.	5.6	9
78	Defect-Induced Near-Infrared Photoluminescence of Single-Walled Carbon Nanotubes Treated with Polyunsaturated Fatty Acids. Journal of the American Chemical Society, 2017, 139, 4859-4865.	13.7	44
79	Gas Cluster Ion Beam Time-of-Flight Secondary Ion Mass Spectrometry High-Resolution Imaging of Cardiolipin Speciation in the Brain: Identification of Molecular Losses after Traumatic Injury. Analytical Chemistry, 2017, 89, 4611-4619.	6.5	68
80	Lipidomics Characterization of Biosynthetic and Remodeling Pathways of Cardiolipins in Genetically and Nutritionally Manipulated Yeast Cells. ACS Chemical Biology, 2017, 12, 265-281.	3.4	25
81	Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. Cell, 2017, 171, 273-285.	28.9	4,081
82	Necroptotic cell death in antiâ€cancer therapy. Immunological Reviews, 2017, 280, 207-219.	6.0	126
83	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. Cell, 2017, 171, 628-641.e26.	28.9	589
84	Ins and Outs in Environmental and Occupational Safety Studies of Asthma and Engineered Nanomaterials. ACS Nano, 2017, 11, 7565-7571.	14.6	14
85	Lipid bodies containing oxidatively truncated lipids block antigen cross-presentation by dendritic cells in cancer. Nature Communications, 2017, 8, 2122.	12.8	196
86	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
87	A Topical Mitochondria-Targeted Redox-Cycling Nitroxide Mitigates Oxidative Stress-Induced Skin Damage. Journal of Investigative Dermatology, 2017, 137, 576-586.	0.7	37
88	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. Nature Chemical Biology, 2017, 13, 81-90.	8.0	1,589
89	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. Nature Chemical Biology, 2017, 13, 91-98.	8.0	2,069
90	Phosphorylation of Cytochrome c Threonine 28 Regulates Electron Transport Chain Activity in Kidney. Journal of Biological Chemistry, 2017, 292, 64-79.	3.4	55

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91	Known unknowns of cardiolipin signaling: The best is yet to come. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2017, 1862, 8-24.	2.4	94
92	Developmental Toxicity of Engineered Nanomaterials. , 2017, , 333-357.		1
93	LPS impairs oxygen utilization in epithelia by triggering degradation of the mitochondrial enzyme Alcat1. Journal of Cell Science, 2016, 129, 51-64.	2.0	19
94	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 391-401.	2.4	30
95	Imaging mass spectrometry reveals loss of polyunsaturated cardiolipins in the cortical contusion, hippocampus, and thalamus after traumatic brain injury. Journal of Neurochemistry, 2016, 139, 659-675.	3.9	41
96	Biosynthesis of oxidized lipid mediators via lipoprotein-associated phospholipase A₂hydrolysis of extracellular cardiolipin induces endothelial toxicity. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2016, 311, L303-L316.	2.9	20
97	CD36 Provides Host Protection AgainstKlebsiella pneumoniaeIntrapulmonary Infection by Enhancing Lipopolysaccharide Responsiveness and Macrophage Phagocytosis. Journal of Infectious Diseases, 2016, 214, 1865-1875.	4.0	28
98	Isolation of human trophoblastic extracellular vesicles and characterization of their cargo and antiviral activity. Placenta, 2016, 47, 86-95.	1.5	82
99	Necrostatin-1 rescues mice from lethal irradiation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 850-856.	3.8	22
100	Mild mitochondrial metabolic deficits by Î±-ketoglutarate dehydrogenase inhibition cause prominent changes in intracellular autophagic signaling: Potential role in the pathobiology of Alzheimer's disease. Neurochemistry International, 2016, 96, 32-45.	3.8	27
101	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. Toxicology and Applied Pharmacology, 2016, 299, 58-69.	2.8	89
102	Mitochondrial Redox Opto-Lipidomics Reveals Mono-Oxygenated Cardiolipins as Pro-Apoptotic Death Signals. ACS Chemical Biology, 2016, 11, 530-540.	3.4	22
103	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. Journal of Neurotrauma, 2016, 33, 641-651.	3.4	61
104	Antioxidant Approaches to Management of Ionizing Irradiation Injury. Antioxidants, 2015, 4, 82-101.	5.1	17
105	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. Particle and Fibre Toxicology, 2015, 13, 28.	6.2	64
106	Nano-Gold Corking and Enzymatic Uncorking of Carbon Nanotube Cups. Journal of the American Chemical Society, 2015, 137, 675-684.	13.7	36
107	Cardiolipin Signaling Mechanisms: Collapse of Asymmetry and Oxidation. Antioxidants and Redox Signaling, 2015, 22, 1667-1680.	5.4	50
108	Inhibition of Peroxidase Activity of Cytochrome c: De Novo Compound Discovery and Validation. Molecular Pharmacology, 2015, 88, 421-427.	2.3	19

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109	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxynitrite-mediated oxidations: pharmacokinetic implications. Nanoscale, 2015, 7, 8689-8694.	5.6	15
110	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
111	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. Science Signaling, 2015, 8, ra95.	3.6	62
112	Structural Changes and Proapoptotic Peroxidase Activity of Cardiolipin-Bound Mitochondrial Cytochrome c. Biophysical Journal, 2015, 109, 1873-1884.	0.5	75
113	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. Journal of Neuroscience, 2015, 35, 12002-12017.	3.6	51
114	Cardiolipin Interactions with Proteins. Biophysical Journal, 2015, 109, 1282-1294.	0.5	116
115	Deciphering of Mitochondrial Cardiolipin Oxidative Signaling in Cerebral Ischemia-Reperfusion. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 319-328.	4.3	51
116	Abnormalities in the male reproductive system after exposure to diesel and biodiesel blend. Environmental and Molecular Mutagenesis, 2015, 56, 265-276.	2.2	18
117	Mitochondrial NM23-H4/NDPK-D: a bifunctional nanoswitch for bioenergetics and lipid signaling. Naunyn-Schmiedeberg's Archives of Pharmacology, 2015, 388, 271-278.	3.0	16
118	Structural Re-arrangement and Peroxidase Activation of Cytochrome c by Anionic Analogues of Vitamin E, Tocopherol Succinate and Tocopherol Phosphate. Journal of Biological Chemistry, 2014, 289, 32488-32498.	3.4	15
119	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
120	Oxidized Lipids Block Antigen Cross-Presentation by Dendritic Cells in Cancer. Journal of Immunology, 2014, 192, 2920-2931.	0.8	203
121	TNFR1/Phox Interaction and TNFR1 Mitochondrial Translocation Thwart Silica-Induced Pulmonary Fibrosis. Journal of Immunology, 2014, 192, 3837-3846.	0.8	31
122	Long-chain Acyl-CoA Dehydrogenase Deficiency as a Cause of Pulmonary Surfactant Dysfunction. Journal of Biological Chemistry, 2014, 289, 10668-10679.	3.4	44
123	Characterization of cardiolipins and their oxidation products by LCâ€“MS analysis. Chemistry and Physics of Lipids, 2014, 179, 3-10.	3.2	39
124	LC3 binds externalized cardiolipin on injured mitochondria to signal mitophagy in neurons. Autophagy, 2014, 10, 376-378.	9.1	122
125	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. Free Radical Biology and Medicine, 2014, 71, 221-230.	2.9	40
126	Deciphering the mysteries of cardiolipins in mitochondria. Chemistry and Physics of Lipids, 2014, 179, 1-2.	3.2	3

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127	Improved spatial resolution of matrix-assisted laser desorption/ionization imaging of lipids in the brain by alkylated derivatives of 2,5-dihydroxybenzoic acid. Rapid Communications in Mass Spectrometry, 2014, 28, 403-412.	1.5	17
128	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
129	Cardiolipin asymmetry, oxidation and signaling. Chemistry and Physics of Lipids, 2014, 179, 64-69.	3.2	109
130	Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. Nature Cell Biology, 2014, 16, 1180-1191.	10.3	2,241
131	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
132	Molecular speciation and dynamics of oxidized triacylglycerols in lipid droplets: Mass spectrometry and coarse-grained simulations. Free Radical Biology and Medicine, 2014, 76, 53-60.	2.9	26
133	Lung Macrophages â€œDigestâ€•Carbon Nanotubes Using a Superoxide/Peroxynitrite Oxidative Pathway. ACS Nano, 2014, 8, 5610-5621.	14.6	127
134	Copper chelation selectively kills colon cancer cells through redox cycling and generation of reactive oxygen species. BMC Cancer, 2014, 14, 527.	2.6	79
135	Computational Approaches to Understanding the Role of Oxidized Tri-Aclyglycerols in Suppression of Antigen Cross-Presentation in Cancer. Biophysical Journal, 2014, 106, 805a-806a.	0.5	1
136	A mitochondrial pathway for biosynthesis of lipid mediators. Nature Chemistry, 2014, 6, 542-552.	13.6	130
137	E3 Ligase Subunit Fbxo15 and PINK1 Kinase Regulate Cardiolipin Synthase 1 Stability and Mitochondrial Function in Pneumonia. Cell Reports, 2014, 7, 476-487.	6.4	45
138	Correction: Oxidized Lipids Block Antigen Cross-Presentation by Dendritic Cells in Cancer. Journal of Immunology, 2014, 192, 4935-4935.	0.8	6
139	Quantification of Selective Phosphatidylserine Oxidation During Apoptosis. Methods in Molecular Biology, 2014, 1105, 603-611.	0.9	4
140	Quantitative Method of Measuring Phosphatidylserine Externalization During Apoptosis Using Electron Paramagnetic Resonance (EPR) Spectroscopy and Annexin-Conjugated Iron. Methods in Molecular Biology, 2014, 1105, 613-621.	0.9	14
141	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. Advanced Drug Delivery Reviews, 2013, 65, 1921-1932.	13.7	158
142	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
143	Oxidative Stress and Dermal Toxicity of Iron Oxide Nanoparticles In Vitro. Cell Biochemistry and Biophysics, 2013, 67, 461-476.	1.8	80
144	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). Small, 2013, 9, 2720-2720.	10.0	6

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145	Cardiolipin externalization to the outer mitochondrial membrane acts as an elimination signal for mitophagy in neuronal cells. Nature Cell Biology, 2013, 15, 1197-1205.	10.3	792
146	Dual Function of Mitochondrial Nm23-H4 Protein in Phosphotransfer and Intermembrane Lipid Transfer. Journal of Biological Chemistry, 2013, 288, 111-121.	3.4	92
147	Coarse Grained Molecular Dynamics Simulation of the Interaction of Cytochrome C with Lipid Bilayers. Biophysical Journal, 2013, 104, 503a-504a.	0.5	1
148	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
149	Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. Journal of Materials Chemistry B, 2013, 1, 302-309.	5.8	50
150	LC/MS characterization of rotenone induced cardiolipin oxidation in human lymphocytes: Implications for mitochondrial dysfunction associated with Parkinson's disease. Molecular Nutrition and Food Research, 2013, 57, 1410-1422.	3.3	27
151	Biodegradation of Singleâ€Walled Carbon Nanotubes by Eosinophil Peroxidase. Small, 2013, 9, 2721-2729.	10.0	171
152	The hydrogen-peroxide-induced radical behaviour in human cytochrome câ€“phospholipid complexes: implications for the enhanced pro-apoptotic activity of the G41S mutant. Biochemical Journal, 2013, 456, 441-452.	3.7	79
153	Carbon Nanotubes Enhance Metastatic Growth of Lung Carcinoma via Upâ€Regulation of Myeloidâ€Derived Suppressor Cells. Small, 2013, 9, 1691-1695.	10.0	61
154	Graphene Oxide, But Not Fullerenes, Targets Immunoproteasomes and Suppresses Antigen Presentation by Dendritic Cells. Small, 2013, 9, 1686-1690.	10.0	75
155	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
156	Screening of Biochemical and Molecular Mechanisms of Secondary Injury and Repair in the Brain after Experimental Blast-Induced Traumatic Brain Injury in Rats. Journal of Neurotrauma, 2013, 30, 920-937.	3.4	96
157	Mitochondrial Injury after Mechanical Stretch of Cortical Neuronsin vitro: Biomarkers of Apoptosis and Selective Peroxidation of Anionic Phospholipids. Journal of Neurotrauma, 2012, 29, 776-788.	3.4	39
158	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. PLoS ONE, 2012, 7, e30923.	2.5	156
159	Specificity of Lipoprotein-Associated Phospholipase A₂ toward Oxidized Phosphatidylserines: Liquid Chromatographyâ€“Electrospray Ionization Mass Spectrometry Characterization of Products and Computer Modeling of Interactions. Biochemistry, 2012, 51, 9736-9750.	2.5	23
160	Microsomal Glutathione Transferase 1 Protects Against Toxicity Induced by Silica Nanoparticles but Not by Zinc Oxide Nanoparticles. ACS Nano, 2012, 6, 1925-1938.	14.6	100
161	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2413-2423.	2.6	57
162	A Natural Vanishing Act: The Enzyme-Catalyzed Degradation of Carbon Nanomaterials. Accounts of Chemical Research, 2012, 45, 1770-1781.	15.6	141

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