Valerian E Kagan

List of Publications by Year in Descending Order

364 papers	29,101 citations	83 h-index	158 g-index
374 ext. papers	35,068 ext. citations	7.5 avg, IF	6.68 L-index

#	Paper	IF	Citations
364	C-ferroptosis is an iron-dependent form of regulated cell death in cyanobacteria. *Journal of Cell Biology*, **2022**, 221,	7.3	6
363	Inactivation of RIP3 kinase sensitizes to 15LOX/PEBP1-mediated ferroptotic death.. *Redox Biology*, **2022**, 50, 102232	11.3	1
362	Ferroptosis induces membrane blebbing in placental trophoblasts. *Journal of Cell Science*, **2022**, 135,	5.3	8
361	Integrated -omics approach reveals persistent DNA damage rewires lipid metabolism and histone hyperacetylation via MYS-1/Tip60.. *Science Advances*, **2022**, 8, eabl6083	14.3	0
360	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	11.5	1
359	Syrian hamsters as a model of lung injury with SARS-CoV-2 infection: Pathologic, physiologic, and detailed molecular profiling. *Translational Research*, **2021**,	11	3
358	15LO1 dictates glutathione redox changes in asthmatic airway epithelium to worsen type-2 inflammation. *Journal of Clinical Investigation*, **2021**,	15.9	3
357	Myeloid-cell derived oxidized lipids and regulation of the tumor microenvironment. *Cancer Research*, **2021**,	10.1	2
356	Ferroptotic cell death triggered by conjugated linolenic acids is mediated by ACSL1. *Nature Communications*, **2021**, 12, 2244	17.4	14
355	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS). *Angewandte Chemie - International Edition*, **2021**, 60, 11784-11788	16.4	10
354	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS). *Angewandte Chemie*, **2021**, 133, 11890-11894	3.6	0
353	NO Represses the Oxygenation of Arachidonoyl PE by 15LOX/PEBP1: Mechanism and Role in Ferroptosis. *International Journal of Molecular Sciences*, **2021**, 22,	6.3	4
352	Successive High-Resolution (HO)-GCIB and C-SIMS Imaging Integrates Multi-Omics in Different Cell Types in Breast Cancer Tissue. *Analytical Chemistry*, **2021**, 93, 8143-8151	7.8	4
351	Phospholipids of APOE lipoproteins activate microglia in an isoform-specific manner in preclinical models of Alzheimer's disease. *Nature Communications*, **2021**, 12, 3416	17.4	12
350	Prokineticin-2 prevents neuronal cell deaths in a model of traumatic brain injury. *Nature Communications*, **2021**, 12, 4220	17.4	6
349	Iron Chaperone Poly rC Binding Protein 1 Protects Mouse Liver From Lipid Peroxidation and Steatosis. *Hepatology*, **2021**, 73, 1176-1193	11.2	37
348	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	11.3	23

347	Lipids as regulators of inflammation and tissue regeneration **2021**, 175-193		
346	Phospholipase iPLA□averts ferroptosis by eliminating a redox lipid death signal. *Nature Chemical Biology*, **2021**, 17, 465-476	11.7	31
345	Activation of Cytochrome C Peroxidase Function Through Coordinated Foldon Loop Dynamics upon Interaction with Anionic Lipids. *Journal of Molecular Biology*, **2021**, 433, 167057	6.5	0
344	A new thiol-independent mechanism of epithelial host defense against Pseudomonas aeruginosa: iNOS/NO sabotage of theft-ferroptosis. *Redox Biology*, **2021**, 45, 102045	11.3	5
343	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. *Redox Biology*, **2021**, 45, 102021	11.3	13
342	Keratinocyte death by ferroptosis initiates skin inflammation after UVB exposure. *Redox Biology*, **2021**, 47, 102143	11.3	5
341	Stressed erythrophagocytosis induces immunosuppression during sepsis through heme-mediated STAT1 dysregulation. *Journal of Clinical Investigation*, **2021**, 131,	15.9	8
340	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	11.5	27
339	Redox lipid reprogramming commands susceptibility of macrophages and microglia to ferroptotic death. *Nature Chemical Biology*, **2020**, 16, 278-290	11.7	105
338	Achieving Life through Death: Redox Biology of Lipid Peroxidation in Ferroptosis. *Cell Chemical Biology*, **2020**, 27, 387-408	8.2	61
337	Lipidomics and RNA sequencing reveal a novel subpopulation of nanovesicle within extracellular matrix biomaterials. *Science Advances*, **2020**, 6, eaay4361	14.3	17
336	Polymorphonuclear myeloid-derived suppressor cells limit antigen cross-presentation by dendritic cells in cancer. *JCI Insight*, **2020**, 5,	9.9	34
335	Redox phospholipidomics of enzymatically generated oxygenated phospholipids as specific signals of programmed cell death. *Free Radical Biology and Medicine*, **2020**, 147, 231-241	7.8	25
334	Bioactive Oxylipins in Infants and Children With Congenital Heart Disease Undergoing Pediatric Cardiopulmonary Bypass. *Pediatric Critical Care Medicine*, **2020**, 21, 33-41	3	6
333	PLA2G6 guards placental trophoblasts against ferroptotic injury. *Proceedings of the National Academy of Sciences of the United States of America*, **2020**, 117, 27319-27328	11.5	30
332	Lysocardiolipin acyltransferase regulates NSCLC cell proliferation and migration by modulating mitochondrial dynamics. *Journal of Biological Chemistry*, **2020**, 295, 13393-13406	5.4	7
331	Excessive phospholipid peroxidation distinguishes ferroptosis from other cell death modes including pyroptosis. *Cell Death and Disease*, **2020**, 11, 922	9.8	30
330	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. *Analytical Chemistry*, **2020**, 92, 12880-12890	7.8	3

329	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	5.4	15
328	Mitochondrial damage & lipid signaling in traumatic brain injury. *Experimental Neurology*, **2020**, 329, 113307	5.7	18
327	Redox Epiphospholipidome in Programmed Cell Death Signaling: Catalytic Mechanisms and Regulation. *Frontiers in Endocrinology*, **2020**, 11, 628079	5.7	0
326	Serine-47 phosphorylation of cytochrome in the mammalian brain regulates cytochrome oxidase and caspase-3 activity. *FASEB Journal*, **2019**, 33, 13503-13514	0.9	11
325	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. *Angewandte Chemie - International Edition*, **2019**, 58, 3156-3161	16.4	35
324	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. *Angewandte Chemie*, **2019**, 131, 3188-3193	3.6	19
323	Interrogating Parkinson's disease associated redox targets: Potential application of CRISPR editing. *Free Radical Biology and Medicine*, **2019**, 144, 279-292	7.8	9
322	Redox (phospho)lipidomics of signaling in inflammation and programmed cell death. *Journal of Leukocyte Biology*, **2019**, 106, 57-81	6.5	22
321	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. *Experimental Neurology*, **2019**, 316, 63-73	5.7	7
320	Fatty acid transport protein□2 reprograms neutrophils in cancer. *Nature*, **2019**, 569, 73-78	50.4	215
319	Surface-Binding to Cardiolipin Nanodomains Triggers Cytochrome c Pro-apoptotic Peroxidase Activity via Localized Dynamics. *Structure*, **2019**, 27, 806-815.e4	5.2	16
318	"Redox lipidomics technology: Looking for a needle in a haystack". *Chemistry and Physics of Lipids*, **2019**, 221, 93-107	3.7	26
317	Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury. *Critical Care Medicine*, **2019**, 47, 410-418	1.4	97
316	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. *Neuropharmacology*, **2019**, 145, 209-219	5.5	20
315	Ferroptotic cell death and TLR4/Trif signaling initiate neutrophil recruitment after heart transplantation. *Journal of Clinical Investigation*, **2019**, 129, 2293-2304	15.9	133
314	Characterization of Differential Dynamics, Specificity, and Allostery of Lipoxygenase Family Members. *Journal of Chemical Information and Modeling*, **2019**, 59, 2496-2508	6.1	18
313	Lipidomics Detection of Brain Cardiolipins in Plasma Is Associated With Outcome After Cardiac Arrest. *Critical Care Medicine*, **2019**, 47, e292-e300	1.4	11
312	Iron catalysis of lipid peroxidation in ferroptosis: Regulated enzymatic or random free radical reaction?. *Free Radical Biology and Medicine*, **2019**, 133, 153-161	7.8	105

311	Mitochondria modulate programmed neuritic retraction. *Proceedings of the National Academy of Sciences of the United States of America*, **2019**, 116, 650-659	11.5	15
310	Cardiolipin-Dependent Mitophagy Guides Outcome after Traumatic Brain Injury. *Journal of Neuroscience*, **2019**, 39, 1930-1943	6.6	45
309	NME4/nucleoside diphosphate kinase D in cardiolipin signaling and mitophagy. *Laboratory Investigation*, **2018**, 98, 228-232	5.9	19
308	Structural characterization of cardiolipin-driven activation of cytochrome c into a peroxidase and membrane perturbation. *Biochimica Et Biophysica Acta - Biomembranes*, **2018**, 1860, 1057-1068	3.8	26
307	FINO initiates ferroptosis through GPX4 inactivation and iron oxidation. *Nature Chemical Biology*, **2018**, 14, 507-515	11.7	245
306	Lipid homeostasis and inflammatory activation are disturbed in classically activated macrophages with peroxisomal β-oxidation deficiency. *Immunology*, **2018**, 153, 342-356	7.8	7
305	"Only a Life Lived for Others Is Worth Living": Redox Signaling by Oxygenated Phospholipids in Cell Fate Decisions. *Antioxidants and Redox Signaling*, **2018**, 29, 1333-1358	8.4	20
304	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	6.0	15
303	Disentangling oxidation/hydrolysis reactions of brain mitochondrial cardiolipins in pathogenesis of traumatic injury. *JCI Insight*, **2018**, 3,	9.9	20
302	2357 Lost and found: Detection of brain cardiolipins in plasma after cardiac arrest. *Journal of Clinical and Translational Science*, **2018**, 2, 17-17	0.4	78
301	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	16.4	38
300	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. *Nanoscale*, **2018**, 10, 17990-18000	7.7	11
299	Nano-targeted induction of dual ferroptotic mechanisms eradicates high-risk neuroblastoma. *Journal of Clinical Investigation*, **2018**, 128, 3341-3355	15.9	215
298	Pseudomonas aeruginosa utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. *Journal of Clinical Investigation*, **2018**, 128, 4639-4653	15.9	71
297	Regulation of lipid peroxidation and ferroptosis in diverse species. *Genes and Development*, **2018**, 32, 602-619	12.6	183
296	Oxidized phospholipid signaling in traumatic brain injury. *Free Radical Biology and Medicine*, **2018**, 124, 493-503	7.8	40
295	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	5	7
294	The mito-DAMP cardiolipin blocks IL-10 production causing persistent inflammation during bacterial pneumonia. *Nature Communications*, **2017**, 8, 13944	17.4	69

293	Elimination of the unnecessary: Intra- and extracellular signaling by anionic phospholipids. *Biochemical and Biophysical Research Communications*, **2017**, 482, 482-490	3.4	11
292	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	6.9	11
291	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	7.7	7
290	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	16.4	31
289	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	7.8	53
288	Lipidomics Characterization of Biosynthetic and Remodeling Pathways of Cardiolipins in Genetically and Nutritionally Manipulated Yeast Cells. *ACS Chemical Biology*, **2017**, 12, 265-281	4.9	16
287	Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. *Cell*, **2017**, 171, 273-285	56.2	1985
286	Necroptotic cell death in anti-cancer therapy. *Immunological Reviews*, **2017**, 280, 207-219	11.3	87
285	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. *Cell*, **2017**, 171, 628-641.e26	56.2	321
284	Developmental Toxicity of Engineered Nanomaterials **2017**, 333-357		1
283	Ins and Outs in Environmental and Occupational Safety Studies of Asthma and Engineered Nanomaterials. *ACS Nano*, **2017**, 11, 7565-7571	16.7	9
282	Lipid bodies containing oxidatively truncated lipids block antigen cross-presentation by dendritic cells in cancer. *Nature Communications*, **2017**, 8, 2122	17.4	100
281	Mediation of the single-walled carbon nanotubes induced pulmonary fibrogenic response by osteopontin and TGF-β1. *Experimental Lung Research*, **2017**, 43, 311-326	2.3	13
280	A Topical Mitochondria-Targeted Redox-Cycling Nitroxide Mitigates Oxidative Stress-Induced Skin Damage. *Journal of Investigative Dermatology*, **2017**, 137, 576-586	4.3	28
279	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. *Nature Chemical Biology*, **2017**, 13, 81-90	11.7	754
278	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. *Nature Chemical Biology*, **2017**, 13, 91-98	11.7	908
277	Phosphorylation of Cytochrome c Threonine 28 Regulates Electron Transport Chain Activity in Kidney: IMPLICATIONS FOR AMP KINASE. *Journal of Biological Chemistry*, **2017**, 292, 64-79	5.4	36
276	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	5	82

275	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. *Journal of Neurotrauma*, **2016**, 33, 641-51	5.4	41
274	LPS impairs oxygen utilization in epithelia by triggering degradation of the mitochondrial enzyme Alcat1. *Journal of Cell Science*, **2016**, 129, 51-64	5.3	17
273	Necrostatin-1 rescues mice from lethal irradiation. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2016**, 1862, 850-856	6.9	16
272	Mild mitochondrial metabolic deficits by □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	4.4	16
271	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. *Toxicology and Applied Pharmacology*, **2016**, 299, 58-69	4.6	72
270	Mitochondrial Redox Opto-Lipidomics Reveals Mono-Oxygenated Cardiolipins as Pro-Apoptotic Death Signals. *ACS Chemical Biology*, **2016**, 11, 530-40	4.9	19
269	Gender differences in murine pulmonary responses elicited by cellulose nanocrystals. *Particle and Fibre Toxicology*, **2016**, 13, 28	8.4	59
268	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. *Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids*, **2016**, 1861, 391-401	5	17
267	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	6	33
266	Biosynthesis of oxidized lipid mediators via lipoprotein-associated phospholipase A2 hydrolysis of extracellular cardiolipin induces endothelial toxicity. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2016**, 311, L303-16	5.8	14
265	CD36 Provides Host Protection Against Klebsiella pneumoniae Intrapulmonary Infection by Enhancing Lipopolysaccharide Responsiveness and Macrophage Phagocytosis. *Journal of Infectious Diseases*, **2016**, 214, 1865-1875	7	19
264	Isolation of human trophoblastic extracellular vesicles and characterization of their cargo and antiviral activity. *Placenta*, **2016**, 47, 86-95	3.4	58
263	Inhibition of Peroxidase Activity of Cytochrome c: De Novo Compound Discovery and Validation. *Molecular Pharmacology*, **2015**, 88, 421-7	4.3	19
262	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxynitrite-mediated oxidations: pharmacokinetic implications. *Nanoscale*, **2015**, 7, 8689-94	7.7	14
261	MDSC and TGF□Are Required for Facilitation of Tumor Growth in the Lungs of Mice Exposed to Carbon Nanotubes. *Cancer Research*, **2015**, 75, 1615-23	10.1	43
260	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. *Science Signaling*, **2015**, 8, ra95	8.8	49
259	Structural Changes and Proapoptotic Peroxidase Activity of Cardiolipin-Bound Mitochondrial Cytochrome c. *Biophysical Journal*, **2015**, 109, 1873-84	2.9	62
258	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. *Journal of Neuroscience*, **2015**, 35, 12002-17	6.6	38

257	Cardiolipin Interactions with Proteins. *Biophysical Journal*, **2015**, 109, 1282-94	2.9	84
256	Deciphering of mitochondrial cardiolipin oxidative signaling in cerebral ischemia-reperfusion. *Journal of Cerebral Blood Flow and Metabolism*, **2015**, 35, 319-28	7.3	37
255	Abnormalities in the male reproductive system after exposure to diesel and biodiesel blend. *Environmental and Molecular Mutagenesis*, **2015**, 56, 265-76	3.2	16
254	Mitochondrial NM23-H4/NDPK-D: a bifunctional nanoswitch for bioenergetics and lipid signaling. *Naunyn-Schmiedebergs Archives of Pharmacology*, **2015**, 388, 271-8	3.4	14
253	Antioxidant Approaches to Management of Ionizing Irradiation Injury. *Antioxidants*, **2015**, 4, 82-101	7.1	15
252	Nano-gold corking and enzymatic uncorking of carbon nanotube cups. *Journal of the American Chemical Society*, **2015**, 137, 675-84	16.4	30
251	Cardiolipin signaling mechanisms: collapse of asymmetry and oxidation. *Antioxidants and Redox Signaling*, **2015**, 22, 1667-80	8.4	41
250	LC3 binds externalized cardiolipin on injured mitochondria to signal mitophagy in neurons: implications for Parkinson disease. *Autophagy*, **2014**, 10, 376-8	10.2	103
249	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. *Free Radical Biology and Medicine*, **2014**, 71, 221-230	7.8	33
248	Deciphering the mysteries of cardiolipins in mitochondria. *Chemistry and Physics of Lipids*, **2014**, 179, 1-2	3.7	2
247	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, 403-12	2.2	16
246	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	8.3	130
245	Cardiolipin asymmetry, oxidation and signaling. *Chemistry and Physics of Lipids*, **2014**, 179, 64-9	3.7	88
244	Inactivation of the ferroptosis regulator Gpx4 triggers acute renal failure in mice. *Nature Cell Biology*, **2014**, 16, 1180-91	23.4	1177
243	Graphene oxide attenuates Th2-type immune responses, but augments airway remodeling and hyperresponsiveness in a murine model of asthma. *ACS Nano*, **2014**, 8, 5585-99	16.7	41
242	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	7.8	20
241	Lung macrophages "digest" carbon nanotubes using a superoxide/peroxynitrite oxidative pathway. *ACS Nano*, **2014**, 8, 5610-21	16.7	102
240	Copper chelation selectively kills colon cancer cells through redox cycling and generation of reactive oxygen species. *BMC Cancer*, **2014**, 14, 527	4.8	57

239	A mitochondrial pathway for biosynthesis of lipid mediators. *Nature Chemistry*, **2014**, 6, 542-52	17.6	112
238	E3 ligase subunit Fbxo15 and PINK1 kinase regulate cardiolipin synthase 1 stability and mitochondrial function in pneumonia. *Cell Reports*, **2014**, 7, 476-487	10.6	39
237	Correction: Oxidized Lipids Block Antigen Cross-Presentation by Dendritic Cells in Cancer. *Journal of Immunology*, **2014**, 192, 4935-4935	5.3	3
236	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, 32488-98	5.4	14
235	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, L170-82	5.8	96
234	Oxidized lipids block antigen cross-presentation by dendritic cells in cancer. *Journal of Immunology*, **2014**, 192, 2920-31	5.3	142
233	TNFR1/phox interaction and TNFR1 mitochondrial translocation Thwart silica-induced pulmonary fibrosis. *Journal of Immunology*, **2014**, 192, 3837-46	5.3	26
232	Long-chain acyl-CoA dehydrogenase deficiency as a cause of pulmonary surfactant dysfunction. *Journal of Biological Chemistry*, **2014**, 289, 10668-10679	5.4	34
231	Characterization of cardiolipins and their oxidation products by LC-MS analysis. *Chemistry and Physics of Lipids*, **2014**, 179, 3-10	3.7	34
230	Quantification of selective phosphatidylserine oxidation during apoptosis. *Methods in Molecular Biology*, **2014**, 1105, 603-11	1.4	3
229	Quantitative method of measuring phosphatidylserine externalization during apoptosis using electron paramagnetic resonance (EPR) spectroscopy and annexin-conjugated iron. *Methods in Molecular Biology*, **2014**, 1105, 613-21	1.4	12
228	Peroxidase-mediated biodegradation of carbon nanotubes in vitro and in vivo. *Advanced Drug Delivery Reviews*, **2013**, 65, 1921-32	18.5	136
227	Molecular modeling in structural nano-toxicology: interactions of nano-particles with nano-machinery of cells. *Advanced Drug Delivery Reviews*, **2013**, 65, 2070-7	18.5	45
226	Oxidative stress and dermal toxicity of iron oxide nanoparticles in vitro. *Cell Biochemistry and Biophysics*, **2013**, 67, 461-76	3.2	73
225	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). *Small*, **2013**, 9, 2720-2720	11	4
224	Cardiolipin externalization to the outer mitochondrial membrane acts as an elimination signal for mitophagy in neuronal cells. *Nature Cell Biology*, **2013**, 15, 1197-1205	23.4	597
223	Dual function of mitochondrial Nm23-H4 protein in phosphotransfer and intermembrane lipid transfer: a cardiolipin-dependent switch. *Journal of Biological Chemistry*, **2013**, 288, 111-21	5.4	77
222	Biodiesel versus diesel exposure: enhanced pulmonary inflammation, oxidative stress, and differential morphological changes in the mouse lung. *Toxicology and Applied Pharmacology*, **2013**, 272, 373-83	4.6	46

221	Effect of antioxidants on enzyme-catalysed biodegradation of carbon nanotubes. *Journal of Materials Chemistry B*, **2013**, 1, 302-309	7.3	43
220	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, 1410-22	5.9	27
219	Biodegradation of single-walled carbon nanotubes by eosinophil peroxidase. *Small*, **2013**, 9, 2721-9, 2720	11	145
218	The hydrogen-peroxide-induced radical behaviour in human cytochrome c-phospholipid complexes: implications for the enhanced pro-apoptotic activity of the G41S mutant. *Biochemical Journal*, **2013**, 456, 441-52	3.8	67
217	Carbon nanotubes enhance metastatic growth of lung carcinoma via up-regulation of myeloid-derived suppressor cells. *Small*, **2013**, 9, 1691-5	11	51
216	Graphene oxide, but not fullerenes, targets immunoproteasomes and suppresses antigen presentation by dendritic cells. *Small*, **2013**, 9, 1686-90	11	59
215	Dual acute proinflammatory and antifibrotic pulmonary effects of short palate, lung, and nasal epithelium clone-1 after exposure to carbon nanotubes. *American Journal of Respiratory Cell and Molecular Biology*, **2013**, 49, 759-67	5.7	28
214	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, 920-37	5.4	76
213	Mechanisms of carbon nanotube-induced toxicity: focus on oxidative stress. *Toxicology and Applied Pharmacology*, **2012**, 261, 121-33	4.6	374
212	Impaired clearance and enhanced pulmonary inflammatory/fibrotic response to carbon nanotubes in myeloperoxidase-deficient mice. *PLoS ONE*, **2012**, 7, e30923	3.7	145
211	Specificity of lipoprotein-associated phospholipase A(2) toward oxidized phosphatidylserines: liquid chromatography-electrospray ionization mass spectrometry characterization of products and computer modeling of interactions. *Biochemistry*, **2012**, 51, 9736-50	3.2	22
210	Microsomal glutathione transferase 1 protects against toxicity induced by silica nanoparticles but not by zinc oxide nanoparticles. *ACS Nano*, **2012**, 6, 1925-38	16.7	87
209	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. *Biochimica Et Biophysica Acta - Biomembranes*, **2012**, 1818, 2413-23	3.8	53
208	A natural vanishing act: the enzyme-catalyzed degradation of carbon nanomaterials. *Accounts of Chemical Research*, **2012**, 45, 1770-81	24.3	130
207	Factoring-in agglomeration of carbon nanotubes and nanofibers for better prediction of their toxicity versus asbestos. *Particle and Fibre Toxicology*, **2012**, 9, 10	8.4	119
206	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. *Nature Neuroscience*, **2012**, 15, 1407-13	25.5	218
205	Adsorption of surfactant lipids by single-walled carbon nanotubes in mouse lung upon pharyngeal aspiration. *ACS Nano*, **2012**, 6, 4147-56	16.7	145
204	A critical role for increased labile zinc in reducing sensitivity of cultured sheep pulmonary artery endothelial cells to LPS-induced apoptosis. *American Journal of Physiology - Lung Cellular and Molecular Physiology*, **2012**, 302, L1287-95	5.8	21

203	Mapping of phospholipids by MALDI imaging (MALDI-MSI): realities and expectations. *Chemistry and Physics of Lipids*, **2012**, 165, 545-62	3.7	84
202	Mitochondria targeting of non-peroxidizable triphenylphosphonium conjugated oleic acid protects mouse embryonic cells against apoptosis: role of cardiolipin remodeling. *FEBS Letters*, **2012**, 586, 235-41	3.8	26
201	Succinobucol induces apoptosis in vascular smooth muscle cells. *Free Radical Biology and Medicine*, **2012**, 52, 871-9	7.8	7
200	Mitochondrial injury after mechanical stretch of cortical neurons in vitro: biomarkers of apoptosis and selective peroxidation of anionic phospholipids. *Journal of Neurotrauma*, **2012**, 29, 776-88	5.4	34
199	Global phospholipidomics analysis reveals selective pulmonary peroxidation profiles upon inhalation of single-walled carbon nanotubes. *ACS Nano*, **2011**, 5, 7342-53	16.7	61
198	Assessments of thiyl radicals in biosystems: difficulties and new applications. *Analytical Chemistry*, **2011**, 83, 6432-8	7.8	26
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2	Lipid Peroxidation In Biomembranes		2
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