

Alexandr A Kapralov

List of Publications by Year in descending order

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43
papers

6,880
citations

201674

27
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265206

42
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44
all docs

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docs citations

44
times ranked

9464
citing authors

#	ARTICLE	IF	CITATIONS
1	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. <i>Nature Chemical Biology</i> , 2017, 13, 81-90.	8.0	1,589
2	Cytochrome c acts as a cardiolipin oxygenase required for release of proapoptotic factors. <i>Nature Chemical Biology</i> , 2005, 1, 223-232.	8.0	1,088
3	Cardiolipin externalization to the outer mitochondrial membrane acts as an elimination signal for mitophagy in neuronal cells. <i>Nature Cell Biology</i> , 2013, 15, 1197-1205.	10.3	792
4	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. <i>Cell</i> , 2017, 171, 628-641.e26.	28.9	589
5	Peroxidase Activity and Structural Transitions of Cytochrome c Bound to Cardiolipin-Containing Membranes. <i>Biochemistry</i> , 2006, 45, 4998-5009.	2.5	346
6	Redox lipid reprogramming commands susceptibility of macrophages and microglia to ferroptotic death. <i>Nature Chemical Biology</i> , 2020, 16, 278-290.	8.0	299
7	Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase. <i>Small</i> , 2013, 9, 2721-2729.	10.0	171
8	Phospholipase iPLA2 β averts ferroptosis by eliminating a redox lipid death signal. <i>Nature Chemical Biology</i> , 2021, 17, 465-476.	8.0	168
9	<i>Pseudomonas aeruginosa</i> utilizes host polyunsaturated phosphatidylethanolamines to trigger theft-ferroptosis in bronchial epithelium. <i>Journal of Clinical Investigation</i> , 2018, 128, 4639-4653.	8.2	159
10	Impaired Clearance and Enhanced Pulmonary Inflammatory/Fibrotic Response to Carbon Nanotubes in Myeloperoxidase-Deficient Mice. <i>PLoS ONE</i> , 2012, 7, e30923.	2.5	156
11	NDPK-D (NM23-H4)-mediated externalization of cardiolipin enables elimination of depolarized mitochondria by mitophagy. <i>Cell Death and Differentiation</i> , 2016, 23, 1140-1151.	11.2	147
12	Lung Macrophages "Digest" Carbon Nanotubes Using a Superoxide/Peroxynitrite Oxidative Pathway. <i>ACS Nano</i> , 2014, 8, 5610-5621.	14.6	127
13	The "pro-apoptotic genes" get out of mitochondria: Oxidative lipidomics and redox activity of cytochrome c/cardiolipin complexes. <i>Chemico-Biological Interactions</i> , 2006, 163, 15-28.	4.0	96
14	A mitochondria-targeted inhibitor of cytochrome c peroxidase mitigates radiation-induced death. <i>Nature Communications</i> , 2011, 2, 497.	12.8	91
15	Enzymatic oxidative biodegradation of nanoparticles: Mechanisms, significance and applications. <i>Toxicology and Applied Pharmacology</i> , 2016, 299, 58-69.	2.8	89
16	Nitric Oxide Inhibits Peroxidase Activity of Cytochrome c-Cardiolipin Complex and Blocks Cardiolipin Oxidation. <i>Journal of Biological Chemistry</i> , 2006, 281, 14554-14562.	3.4	88
17	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. <i>Redox Biology</i> , 2021, 45, 102021.	9.0	88
18	Peroxidase Mechanism of Lipid-dependent Cross-linking of Synuclein with Cytochrome c. <i>Journal of Biological Chemistry</i> , 2009, 284, 15951-15969.	3.4	86

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19	The hydrogen-peroxide-induced radical behaviour in human cytochrome <i>c</i> phospholipid complexes: implications for the enhanced pro-apoptotic activity of the G41S mutant. <i>Biochemical Journal</i> , 2013, 456, 441-452.	3.7	79
20	Oxidatively modified phosphatidylserines on the surface of apoptotic cells are essential phagocytic signals: cleavage and inhibition of phagocytosis by Lp-PLA2. <i>Cell Death and Differentiation</i> , 2014, 21, 825-835.	11.2	71
21	Topography of tyrosine residues and their involvement in peroxidation of polyunsaturated cardiolipin in cytochrome <i>c</i> /cardiolipin peroxidase complexes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2011, 1808, 2147-2155.	2.6	64
22	Phosphorylation of Cytochrome <i>c</i> Threonine 28 Regulates Electron Transport Chain Activity in Kidney. <i>Journal of Biological Chemistry</i> , 2017, 292, 64-79.	3.4	55
23	Interactions of cardiolipin and lyso-cardiolipins with cytochrome <i>c</i> and tBid: conflict or assistance in apoptosis. <i>Cell Death and Differentiation</i> , 2007, 14, 872-875.	11.2	50
24	Designing inhibitors of cytochrome <i>c</i> /cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. <i>Free Radical Biology and Medicine</i> , 2014, 71, 221-230.	2.9	40
25	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-SIMS). <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11784-11788.	13.8	38
26	Nano-Gold Corking and Enzymatic Uncorking of Carbon Nanotube Cups. <i>Journal of the American Chemical Society</i> , 2015, 137, 675-684.	13.7	36
27	Redox (phospho)lipidomics of signaling in inflammation and programmed cell death. <i>Journal of Leukocyte Biology</i> , 2019, 106, 57-81.	3.3	33
28	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , 2016, 1861, 391-401.	2.4	30
29	Molecular Design of New Inhibitors of Peroxidase Activity of Cytochrome <i>c</i> /Cardiolipin Complexes: Fluorescent Oxadiazole-Derivatized Cardiolipin. <i>Biochemistry</i> , 2008, 47, 13699-13710.	2.5	27
30	LC/MS characterization of rotenone induced cardiolipin oxidation in human lymphocytes: Implications for mitochondrial dysfunction associated with Parkinson's disease. <i>Molecular Nutrition and Food Research</i> , 2013, 57, 1410-1422.	3.3	27
31	Serine47 phosphorylation of cytochrome <i>c</i> in the mammalian brain regulates cytochrome <i>c</i> oxidase and caspase3 activity. <i>FASEB Journal</i> , 2019, 33, 13503-13514.	0.5	26
32	Mitochondrial Redox Opto-Lipidomics Reveals Mono-Oxygenated Cardiolipins as Pro-Apoptotic Death Signals. <i>ACS Chemical Biology</i> , 2016, 11, 530-540.	3.4	22
33	Targeting myeloid regulators by paclitaxel-loaded enzymatically degradable nanocups. <i>Nanoscale</i> , 2018, 10, 17990-18000.	5.6	20
34	Inhibition of Peroxidase Activity of Cytochrome <i>c</i> : De Novo Compound Discovery and Validation. <i>Molecular Pharmacology</i> , 2015, 88, 421-427.	2.3	19
35	NO ²⁻ Represses the Oxygenation of Arachidonoyl PE by 15LOX/PEBP1: Mechanism and Role in Ferroptosis. <i>International Journal of Molecular Sciences</i> , 2021, 22, 5253.	4.1	19
36	Payload drug vs. nanocarrier biodegradation by myeloperoxidase- and peroxynitrite-mediated oxidations: pharmacokinetic implications. <i>Nanoscale</i> , 2015, 7, 8689-8694.	5.6	15

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37	Photoluminescence Response in Carbon Nanomaterials to Enzymatic Degradation. Analytical Chemistry, 2020, 92, 12880-12890.	6.5	11
38	Succinobucol induces apoptosis in vascular smooth muscle cells. Free Radical Biology and Medicine, 2012, 52, 871-879.	2.9	9
39	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
40	Carbon Nanotubes: Biodegradation of Single-Walled Carbon Nanotubes by Eosinophil Peroxidase (Small 16/2013). Small, 2013, 9, 2720-2720.	10.0	6
41	Direct Mapping of Phospholipid Ferroptotic Death Signals in Cells and Tissues by Gas Cluster Ion Beam Secondary Ion Mass Spectrometry (GCIB-IMS). Angewandte Chemie, 2021, 133, 11890-11894.	2.0	4
42	Tocopherol modulates the effects of A23187, verapamil, and phorbol myristate acetate on RNA-polymerase activity of isolated rat liver nuclei. Biochemistry (Moscow), 1997, 62, 694-6.	1.5	1
43	The action of vitamin E on RNA- and DNA-polymerase activity of rat liver mitochondria. Biopolymers and Cell, 1997, 13, 269-273.	0.4	0