

HÃ¼lya Bayraktar

List of Publications by Year in descending order

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papers

11,516
citations

126907

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all docs

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docs citations

66
times ranked

11388
citing authors

#	ARTICLE	IF	CITATIONS
1	Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. Cell, 2017, 171, 273-285.	28.9	4,081
2	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. Nature Chemical Biology, 2017, 13, 91-98.	8.0	2,069
3	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. Nature Chemical Biology, 2017, 13, 81-90.	8.0	1,589
4	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. Cell, 2017, 171, 628-641.e26.	28.9	589
5	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. Nature Neuroscience, 2012, 15, 1407-1413.	14.8	254
6	Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury*. Critical Care Medicine, 2019, 47, 410-418.	0.9	191
7	Selective early cardiolipin peroxidation after traumatic brain injury: an oxidative lipidomics analysis. Annals of Neurology, 2007, 62, 154-169.	5.3	168
8	Achieving Life through Death: Redox Biology of Lipid Peroxidation in Ferroptosis. Cell Chemical Biology, 2020, 27, 387-408.	5.2	144
9	Therapeutic hypothermia preserves antioxidant defenses after severe traumatic brain injury in infants and children*. Critical Care Medicine, 2009, 37, 689-695.	0.9	141
10	A mitochondrial pathway for biosynthesis of lipid mediators. Nature Chemistry, 2014, 6, 542-552.	13.6	130
11	Bench-to-bedside review: Mitochondrial injury, oxidative stress and apoptosis â€“ there is nothing more practical than a good theory. Critical Care, 2008, 12, 206.	5.8	126
12	Cardiolipin asymmetry, oxidation and signaling. Chemistry and Physics of Lipids, 2014, 179, 64-69.	3.2	109
13	Therapies targeting lipid peroxidation in traumatic brain injury. Brain Research, 2016, 1640, 57-76.	2.2	94
14	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
15	Cerebrospinal Fluid NLRP3 is Increased After Severe Traumatic Brain Injury in Infants and Children. Neurocritical Care, 2017, 27, 44-50.	2.4	90
16	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. Redox Biology, 2021, 45, 102021.	9.0	88
17	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
18	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

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19	Oxidized phospholipid signaling in traumatic brain injury. <i>Free Radical Biology and Medicine</i> , 2018, 124, 493-503.	2.9	63
20	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. <i>Science Signaling</i> , 2015, 8, ra95.	3.6	62
21	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. <i>Journal of Neurotrauma</i> , 2016, 33, 641-651.	3.4	61
22	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 2413-2423.	2.6	57
23	Secondary Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 3156-3161.	13.8	57
24	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. <i>Journal of Neuroscience</i> , 2015, 35, 12002-12017.	3.6	51
25	Deciphering of Mitochondrial Cardiolipin Oxidative Signaling in Cerebral Ischemia-Reperfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2015, 35, 319-328.	4.3	51
26	Cardiolipin Signaling Mechanisms: Collapse of Asymmetry and Oxidation. <i>Antioxidants and Redox Signaling</i> , 2015, 22, 1667-1680.	5.4	50
27	Autophagy Biomarkers Beclin 1 and p62 are Increased in Cerebrospinal Fluid after Traumatic Brain Injury. <i>Neurocritical Care</i> , 2017, 26, 348-355.	2.4	42
28	Quantitative assessment of cell fate decision between autophagy and apoptosis. <i>Scientific Reports</i> , 2017, 7, 17605.	3.3	42
29	Imaging mass spectrometry reveals loss of polyunsaturated cardiolipins in the cortical contusion, hippocampus, and thalamus after traumatic brain injury. <i>Journal of Neurochemistry</i> , 2016, 139, 659-675.	3.9	41
30	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. <i>Free Radical Biology and Medicine</i> , 2014, 71, 221-230.	2.9	40
31	The role of autophagy in acute brain injury: A state of flux?. <i>Neurobiology of Disease</i> , 2019, 122, 9-15.	4.4	40
32	A new thiol-independent mechanism of epithelial host defense against <i>Pseudomonas aeruginosa</i> : iNOS/NO sabotage of theft-ferroptosis. <i>Redox Biology</i> , 2021, 45, 102045.	9.0	40
33	Characterization of cardiolipins and their oxidation products by LC-MS analysis. <i>Chemistry and Physics of Lipids</i> , 2014, 179, 3-10.	3.2	39
34	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
35	Successive High-Resolution (H ₂ O) _n -GCIB and C ₆₀ -SIMS Imaging Integrates Multi-Omics in Different Cell Types in Breast Cancer Tissue. <i>Analytical Chemistry</i> , 2021, 93, 8143-8151.	6.5	38
36	Redox lipidomics technology: Looking for a needle in a haystack. <i>Chemistry and Physics of Lipids</i> , 2019, 221, 93-107.	3.2	35

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37	Mitochondrial damage & lipid signaling in traumatic brain injury. <i>Experimental Neurology</i> , 2020, 329, 113307.	4.1	34
38	Design and Synthesis of a Mitochondria-Targeted Mimic of Glutathione Peroxidase, MitoEbselen-2, as a Radiation Mitigator. <i>ACS Medicinal Chemistry Letters</i> , 2014, 5, 1304-1307.	2.8	33
39	“Only a Life Lived for Others Is Worth Living” Redox Signaling by Oxygenated Phospholipids in Cell Fate Decisions. <i>Antioxidants and Redox Signaling</i> , 2018, 29, 1333-1358.	5.4	33
40	Pre-clinical models in pediatric traumatic brain injury—challenges and lessons learned. <i>Child's Nervous System</i> , 2017, 33, 1693-1701.	1.1	32
41	Brain tissue oxygen monitoring identifies cortical hypoxia and thalamic hyperoxia after experimental cardiac arrest in rats. <i>Pediatric Research</i> , 2014, 75, 295-301.	2.3	31
42	Paths to Successful Translation of New Therapies for Severe Traumatic Brain Injury in the Golden Age of Traumatic Brain Injury Research: A Pittsburgh Vision. <i>Journal of Neurotrauma</i> , 2020, 37, 2353-2371.	3.4	31
43	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
44	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. <i>Neuropharmacology</i> , 2019, 145, 209-219.	4.1	26
45	C-ferroptosis is an iron-dependent form of regulated cell death in cyanobacteria. <i>Journal of Cell Biology</i> , 2022, 221, .	5.2	26
46	Ischemia-induced autophagy contributes to neurodegeneration in cerebellar Purkinje cells in the developing rat brain and in primary cortical neurons in vitro. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 1902-1911.	3.8	25
47	Secondary Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. <i>Angewandte Chemie</i> , 2019, 131, 3188-3193.	2.0	23
48	Necrostatin-1 rescues mice from lethal irradiation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2016, 1862, 850-856.	3.8	22
49	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
50	Global assessment of oxidized free fatty acids in brain reveals an enzymatic predominance to oxidative signaling after trauma. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017, 1863, 2601-2613.	3.8	20
51	Metabolic and Structural Imaging at 7 Tesla After Repetitive Mild Traumatic Brain Injury in Immature Rats. <i>ASN Neuro</i> , 2018, 10, 175909141877054.	2.7	20
52	Quantitative and qualitative assessment of glymphatic flux using Evans blue albumin. <i>Journal of Neuroscience Methods</i> , 2019, 311, 436-441.	2.5	20
53	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
54	Lipidomics Detection of Brain Cardiolipins in Plasma Is Associated With Outcome After Cardiac Arrest. <i>Critical Care Medicine</i> , 2019, 47, e292-e300.	0.9	19

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55	NO—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
56	Antioxidant Approaches to Management of Ionizing Irradiation Injury. Antioxidants, 2015, 4, 82-101.	5.1	17
57	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
58	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. Experimental Neurology, 2019, 316, 63-73.	4.1	16
59	Inactivation of RIP3 kinase sensitizes to 15LOX/PEBP1-mediated ferroptotic death. Redox Biology, 2022, 50, 102232.	9.0	15
60	Elimination of the unnecessary: Intra- and extracellular signaling by anionic phospholipids. Biochemical and Biophysical Research Communications, 2017, 482, 482-490.	2.1	12
61	Titrating the Dose of Oxygen after Severe Traumatic Brain Injury in the Era of Precision Medicine. Journal of Neurotrauma, 2017, 34, 3067-3069.	3.4	6
62	Amelioration of Amyotrophic Lateral Sclerosis in SOD1 ^{G93A} Mice by M ₂ Microglia from Transplanted Marrow. In Vivo, 2019, 33, 675-688.	1.3	4
63	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.	2.0	4
64	Tandem Therapeutic Plasma Exchange Reduces Continuous Renal Replacement Therapy Downtime. Blood Purification, 2021, , 1-8.	1.8	1
65	Redox Pioneer: Professor Valerian Kagan. Antioxidants and Redox Signaling, 2022, , .	5.4	1
66	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