HÃ¼lya BayÄ±r

List of Publications by Year
in descending order

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66 papers	11,516 citations	126858 33 h-index	106281 65 g-index
66 all docs	66 docs citations	66 times ranked	11388 citing authors

#	Article	IF	Citations
1	C-ferroptosis is an iron-dependent form of regulated cell death in cyanobacteria. Journal of Cell Biology, 2022, 221, .	2.3	26
2	Inactivation of RIP3 kinase sensitizes to 15LOX/PEBP1-mediated ferroptotic death. Redox Biology, 2022, 50, 102232.	3.9	15
3	Redox Pioneer: Professor Valerian Kagan. Antioxidants and Redox Signaling, 2022, , .	2.5	1
4	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.	3.9	67
5	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.	7.2	38
6	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.	1.6	4
7	NOâ—•Represses the Oxygenation of Arachidonoyl PE by 15LOX/PEBP1: Mechanism and Role in Ferroptosis. International Journal of Molecular Sciences, 2021, 22, 5253.	1.8	19
8	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.	3.2	38
9	A new thiol-independent mechanism of epithelial host defense against Pseudomonas aeruginosa: iNOS/NOâ€¢ sabotage of theft-ferroptosis. Redox Biology, 2021, 45, 102045.	3.9	40
10	Tandem Therapeutic Plasma Exchange Reduces Continuous Renal Replacement Therapy Downtime. Blood Purification, 2021, , 1-8.	0.9	1
11	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. Redox Biology, 2021, 45, 102021.	3.9	88
12	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.	1.7	31
13	Achieving Life through Death: Redox Biology of Lipid Peroxidation in Ferroptosis. Cell Chemical Biology, 2020, 27, 387-408.	2.5	144
14	Mitochondrial damage & lipid signaling in traumatic brain injury. Experimental Neurology, 2020, 329, 113307.	2.0	34
15	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. Neuropharmacology, 2019, 145, 209-219.	2.0	26
16	Secondaryâ€Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. Angewandte Chemie - International Edition, 2019, 58, 3156-3161.	7.2	57
17	Secondaryâ€Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. Angewandte Chemie, 2019, 131, 3188-3193.	1.6	23
18	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. Experimental Neurology, 2019, 316, 63-73.	2.0	16

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19	Amelioration of Amyotrophic Lateral Sclerosis in SOD1^{G93A}Mice by M₂Microglia from Transplanted Marrow. In Vivo, 2019, 33, 675-688.	0.6	4
20	â€œRedox lipidomics technology: Looking for a needle in a haystackâ€• Chemistry and Physics of Lipids, 2019, 221, 93-107.	1.5	35
21	Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury*. Critical Care Medicine, 2019, 47, 410-418.	0.4	191
22	Lipidomics Detection of Brain Cardiolipins in Plasma Is Associated With Outcome After Cardiac Arrest. Critical Care Medicine, 2019, 47, e292-e300.	0.4	19
23	Quantitative and qualitative assessment of glymphatic flux using Evans blue albumin. Journal of Neuroscience Methods, 2019, 311, 436-441.	1.3	20
24	The role of autophagy in acute brain injury: A state of flux?. Neurobiology of Disease, 2019, 122, 9-15.	2.1	40
25	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.	2.5	33
26	2357 Lost and found: Detection of brain cardiolipins in plasma after cardiac arrest. Journal of Clinical and Translational Science, 2018, 2, 17-17.	0.3	0
27	Oxidized phospholipid signaling in traumatic brain injury. Free Radical Biology and Medicine, 2018, 124, 493-503.	1.3	63
28	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.	1.2	16
29	Metabolic and Structural Imaging at 7 Tesla After Repetitive Mild Traumatic Brain Injury in Immature Rats. ASN Neuro, 2018, 10, 175909141877054.	1.5	20
30	Elimination of the unnecessary: Intra- and extracellular signaling by anionic phospholipids. Biochemical and Biophysical Research Communications, 2017, 482, 482-490.	1.0	12
31	Cerebrospinal Fluid NLRP3 is Increased After Severe Traumatic Brain Injury in Infants and Children. Neurocritical Care, 2017, 27, 44-50.	1.2	90
32	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.	1.8	20
33	Titrating the Dose of Oxygen after Severe Traumatic Brain Injury in the Era of Precision Medicine. Journal of Neurotrauma, 2017, 34, 3067-3069.	1.7	6
34	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.	3.2	68
35	Autophagy Biomarkers Beclin 1 and p62 are Increased in Cerebrospinal Fluid after Traumatic Brain Injury. Neurocritical Care, 2017, 26, 348-355.	1.2	42
36	Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. Cell, 2017, 171, 273-285.	13.5	4,081

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37	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. Cell, 2017, 171, 628-641.e26.	13.5	589
38	Pre-clinical models in pediatric traumatic brain injuryâ€"challenges and lessons learned. Child's Nervous System, 2017, 33, 1693-1701.	0.6	32
39	Quantitative assessment of cell fate decision between autophagy and apoptosis. Scientific Reports, 2017, 7, 17605.	1.6	42
40	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. Nature Chemical Biology, 2017, 13, 81-90.	3.9	1,589
41	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. Nature Chemical Biology, 2017, 13, 91-98.	3.9	2,069
42	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.	1.2	94
43	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids, 2016, 1861, 391-401.	1.2	30
44	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.	2.1	41
45	Necrostatin-1 rescues mice from lethal irradiation. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2016, 1862, 850-856.	1.8	22
46	Therapies targeting lipid peroxidation in traumatic brain injury. Brain Research, 2016, 1640, 57-76.	1.1	94
47	Mitochondrial Redox Opto-Lipidomics Reveals Mono-Oxygenated Cardiolipins as Pro-Apoptotic Death Signals. ACS Chemical Biology, 2016, 11, 530-540.	1.6	22
48	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. Journal of Neurotrauma, 2016, 33, 641-651.	1.7	61
49	Antioxidant Approaches to Management of Ionizing Irradiation Injury. Antioxidants, 2015, 4, 82-101.	2.2	17
50	Cardiolipin Signaling Mechanisms: Collapse of Asymmetry and Oxidation. Antioxidants and Redox Signaling, 2015, 22, 1667-1680.	2.5	50
51	Inhibition of Peroxidase Activity of Cytochrome c: De Novo Compound Discovery and Validation. Molecular Pharmacology, 2015, 88, 421-427.	1.0	19
52	Ischemia-induced autophagy contributes to neurodegeneration in cerebellar Purkinje cells in the developing rat brain and in primary cortical neurons in vitro. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2015, 1852, 1902-1911.	1.8	25
53	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. Science Signaling, 2015, 8, ra95.	1.6	62
54	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. Journal of Neuroscience, 2015, 35, 12002-12017.	1.7	51

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55	Deciphering of Mitochondrial Cardiolipin Oxidative Signaling in Cerebral Ischemia-Reperfusion. Journal of Cerebral Blood Flow and Metabolism, 2015, 35, 319-328.	2.4	51
56	Brain tissue oxygen monitoring identifies cortical hypoxia and thalamic hyperoxia after experimental cardiac arrest in rats. Pediatric Research, 2014, 75, 295-301.	1.1	31
57	Characterization of cardiolipins and their oxidation products by LCâ€“MS analysis. Chemistry and Physics of Lipids, 2014, 179, 3-10.	1.5	39
58	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. Free Radical Biology and Medicine, 2014, 71, 221-230.	1.3	40
59	Cardiolipin asymmetry, oxidation and signaling. Chemistry and Physics of Lipids, 2014, 179, 64-69.	1.5	109
60	Design and Synthesis of a Mitochondria-Targeted Mimic of Glutathione Peroxidase, MitoEbselen-2, as a Radiation Mitigator. ACS Medicinal Chemistry Letters, 2014, 5, 1304-1307.	1.3	33
61	A mitochondrial pathway for biosynthesis of lipid mediators. Nature Chemistry, 2014, 6, 542-552.	6.6	130
62	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. Biochimica Et Biophysica Acta - Biomembranes, 2012, 1818, 2413-2423.	1.4	57
63	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. Nature Neuroscience, 2012, 15, 1407-1413.	7.1	254
64	Therapeutic hypothermia preserves antioxidant defenses after severe traumatic brain injury in infants and children*. Critical Care Medicine, 2009, 37, 689-695.	0.4	141
65	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.	2.5	126
66	Selective early cardiolipin peroxidation after traumatic brain injury: an oxidative lipidomics analysis. Annals of Neurology, 2007, 62, 154-169.	2.8	168