

# Hlya Bayr

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

64  
papers

6,194  
citations

29  
h-index

66  
g-index

66  
ext. papers

8,845  
ext. citations

8  
avg, IF

5.38  
L-index

#	Paper	IF	Citations
64	Ferroptosis: A Regulated Cell Death Nexus Linking Metabolism, Redox Biology, and Disease. <i>Cell</i> , <b>2017</b> , 171, 273-285	56.2	1985
63	ACSL4 dictates ferroptosis sensitivity by shaping cellular lipid composition. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 91-98	11.7	908
62	Oxidized arachidonic and adrenic PEs navigate cells to ferroptosis. <i>Nature Chemical Biology</i> , <b>2017</b> , 13, 81-90	11.7	754
61	PEBP1 Wardens Ferroptosis by Enabling Lipoxygenase Generation of Lipid Death Signals. <i>Cell</i> , <b>2017</b> , 171, 628-641.e26	56.2	321
60	Lipidomics identifies cardiolipin oxidation as a mitochondrial target for redox therapy of brain injury. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1407-13	25.5	218
59	Selective early cardiolipin peroxidation after traumatic brain injury: an oxidative lipidomics analysis. <i>Annals of Neurology</i> , <b>2007</b> , 62, 154-69	9.4	141
58	Therapeutic hypothermia preserves antioxidant defenses after severe traumatic brain injury in infants and children. <i>Critical Care Medicine</i> , <b>2009</b> , 37, 689-95	1.4	122
57	A mitochondrial pathway for biosynthesis of lipid mediators. <i>Nature Chemistry</i> , <b>2014</b> , 6, 542-52	17.6	112
56	Bench-to-bedside review: Mitochondrial injury, oxidative stress and apoptosis--there is nothing more practical than a good theory. <i>Critical Care</i> , <b>2008</b> , 12, 206	10.8	105
55	Ferroptosis Contributes to Neuronal Death and Functional Outcome After Traumatic Brain Injury. <i>Critical Care Medicine</i> , <b>2019</b> , 47, 410-418	1.4	97
54	Cardiolipin asymmetry, oxidation and signaling. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 179, 64-9	3.7	88
53	Known unknowns of cardiolipin signaling: The best is yet to come. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2017</b> , 1862, 8-24	5	82
52	2357 Lost and found: Detection of brain cardiolipins in plasma after cardiac arrest. <i>Journal of Clinical and Translational Science</i> , <b>2018</b> , 2, 17-17	0.4	78
51	Therapies targeting lipid peroxidation in traumatic brain injury. <i>Brain Research</i> , <b>2016</b> , 1640, 57-76	3.7	70
50	Achieving Life through Death: Redox Biology of Lipid Peroxidation in Ferroptosis. <i>Cell Chemical Biology</i> , <b>2020</b> , 27, 387-408	8.2	61
49	Cerebrospinal Fluid NLRP3 is Increased After Severe Traumatic Brain Injury in Infants and Children. <i>Neurocritical Care</i> , <b>2017</b> , 27, 44-50	3.3	57
48	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. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 4611-4619	7.8	53

47	Oxidized phospholipids as biomarkers of tissue and cell damage with a focus on cardiolipin. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , <b>2012</b> , 1818, 2413-23	3.8	53
46	Dichotomous roles for externalized cardiolipin in extracellular signaling: Promotion of phagocytosis and attenuation of innate immunity. <i>Science Signaling</i> , <b>2015</b> , 8, ra95	8.8	49
45	Repetitive Mild Traumatic Brain Injury in the Developing Brain: Effects on Long-Term Functional Outcome and Neuropathology. <i>Journal of Neurotrauma</i> , <b>2016</b> , 33, 641-51	5.4	41
44	Cardiolipin signaling mechanisms: collapse of asymmetry and oxidation. <i>Antioxidants and Redox Signaling</i> , <b>2015</b> , 22, 1667-80	8.4	41
43	Oxidized phospholipid signaling in traumatic brain injury. <i>Free Radical Biology and Medicine</i> , <b>2018</b> , 124, 493-503	7.8	40
42	Defects of Lipid Synthesis Are Linked to the Age-Dependent Demyelination Caused by Lamin B1 Overexpression. <i>Journal of Neuroscience</i> , <b>2015</b> , 35, 12002-17	6.6	38
41	Deciphering of mitochondrial cardiolipin oxidative signaling in cerebral ischemia-reperfusion. <i>Journal of Cerebral Blood Flow and Metabolism</i> , <b>2015</b> , 35, 319-28	7.3	37
40	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. <i>Angewandte Chemie - International Edition</i> , <b>2019</b> , 58, 3156-3161	16.4	35
39	Characterization of cardiolipins and their oxidation products by LC-MS analysis. <i>Chemistry and Physics of Lipids</i> , <b>2014</b> , 179, 3-10	3.7	34
38	Designing inhibitors of cytochrome c/cardiolipin peroxidase complexes: mitochondria-targeted imidazole-substituted fatty acids. <i>Free Radical Biology and Medicine</i> , <b>2014</b> , 71, 221-230	7.8	33
37	Imaging mass spectrometry reveals loss of polyunsaturated cardiolipins in the cortical contusion, hippocampus, and thalamus after traumatic brain injury. <i>Journal of Neurochemistry</i> , <b>2016</b> , 139, 659-675	6	33
36	Autophagy Biomarkers Beclin 1 and p62 are Increased in Cerebrospinal Fluid after Traumatic Brain Injury. <i>Neurocritical Care</i> , <b>2017</b> , 26, 348-355	3.3	29
35	"Redox lipidomics technology: Looking for a needle in a haystack". <i>Chemistry and Physics of Lipids</i> , <b>2019</b> , 221, 93-107	3.7	26
34	Design and Synthesis of a Mitochondria-Targeted Mimic of Glutathione Peroxidase, MitoEbselen-2, as a Radiation Mitigator. <i>ACS Medicinal Chemistry Letters</i> , <b>2014</b> , 5, 1304-1307	4.3	26
33	Quantitative assessment of cell fate decision between autophagy and apoptosis. <i>Scientific Reports</i> , <b>2017</b> , 7, 17605	4.9	25
32	The role of autophagy in acute brain injury: A state of flux?. <i>Neurobiology of Disease</i> , <b>2019</b> , 122, 9-15	7.5	25
31	Resolving the paradox of ferroptotic cell death: Ferrostatin-1 binds to 15LOX/PEBP1 complex, suppresses generation of peroxidized ETE-PE, and protects against ferroptosis. <i>Redox Biology</i> , <b>2021</b> , 38, 101744	11.3	23
30	"Only a Life Lived for Others Is Worth Living": Redox Signaling by Oxygenated Phospholipids in Cell Fate Decisions. <i>Antioxidants and Redox Signaling</i> , <b>2018</b> , 29, 1333-1358	8.4	20

29	Aiming for the target: Mitochondrial drug delivery in traumatic brain injury. <i>Neuropharmacology</i> , <b>2019</b> , 145, 209-219	5.5	20
28	Pre-clinical models in pediatric traumatic brain injury-challenges and lessons learned. <i>Childw Nervous System</i> , <b>2017</b> , 33, 1693-1701	1.7	20
27	Secondary-Ion Mass Spectrometry Images Cardiolipins and Phosphatidylethanolamines at the Subcellular Level. <i>Angewandte Chemie</i> , <b>2019</b> , 131, 3188-3193	3.6	19
26	Inhibition of Peroxidase Activity of Cytochrome c: De Novo Compound Discovery and Validation. <i>Molecular Pharmacology</i> , <b>2015</b> , 88, 421-7	4.3	19
25	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> , <b>2015</b> , 1852, 1902-11	6.9	19
24	Mitochondrial Redox Opto-Lipidomics Reveals Mono-Oxygenated Cardiolipins as Pro-Apoptotic Death Signals. <i>ACS Chemical Biology</i> , <b>2016</b> , 11, 530-40	4.9	19
23	Mitochondrial damage & lipid signaling in traumatic brain injury. <i>Experimental Neurology</i> , <b>2020</b> , 329, 113307	3.07	18
22	Brain tissue oxygen monitoring identifies cortical hypoxia and thalamic hyperoxia after experimental cardiac arrest in rats. <i>Pediatric Research</i> , <b>2014</b> , 75, 295-301	3.2	17
21	Peroxidase activation of cytoglobin by anionic phospholipids: Mechanisms and consequences. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2016</b> , 1861, 391-401	5	17
20	Necrostatin-1 rescues mice from lethal irradiation. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , <b>2016</b> , 1862, 850-856	6.9	16
19	Antioxidant Approaches to Management of Ionizing Irradiation Injury. <i>Antioxidants</i> , <b>2015</b> , 4, 82-101	7.1	15
18	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> , <b>2020</b> , 37, 2353-2371	5.4	15
17	Elucidating the contribution of mitochondrial glutathione to ferroptosis in cardiomyocytes. <i>Redox Biology</i> , <b>2021</b> , 45, 102021	11.3	13
16	Quantitative and qualitative assessment of glymphatic flux using Evans blue albumin. <i>Journal of Neuroscience Methods</i> , <b>2019</b> , 311, 436-441	3	12
15	Elimination of the unnecessary: Intra- and extracellular signaling by anionic phospholipids. <i>Biochemical and Biophysical Research Communications</i> , <b>2017</b> , 482, 482-490	3.4	11
14	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> , <b>2017</b> , 1863, 2601-2613	6.9	11
13	Metabolic and Structural Imaging at 7 Tesla After Repetitive Mild Traumatic Brain Injury in Immature Rats. <i>ASN Neuro</i> , <b>2018</b> , 10, 1759091418770543	5.3	11
12	Lipidomics Detection of Brain Cardiolipins in Plasma Is Associated With Outcome After Cardiac Arrest. <i>Critical Care Medicine</i> , <b>2019</b> , 47, e292-e300	1.4	11

11	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> , <b>2021</b> , 60, 11784-11788	16.4	10
10	Detection of brain specific cardiolipins in plasma after experimental pediatric head injury. <i>Experimental Neurology</i> , <b>2019</b> , 316, 63-73	5.7	7
9	Genetic re-engineering of polyunsaturated phospholipid profile of <i>Saccharomyces cerevisiae</i> identifies a novel role for Cld1 in mitigating the effects of cardiolipin peroxidation. <i>Biochimica Et Biophysica Acta - Molecular and Cell Biology of Lipids</i> , <b>2018</b> , 1863, 1354-1368	5	7
8	C-ferroptosis is an iron-dependent form of regulated cell death in cyanobacteria. <i>Journal of Cell Biology</i> , <b>2022</b> , 221,	7.3	6
7	A new thiol-independent mechanism of epithelial host defense against <i>Pseudomonas aeruginosa</i> : iNOS/NO sabotage of theft-ferroptosis. <i>Redox Biology</i> , <b>2021</b> , 45, 102045	11.3	5
6	NO Represses the Oxygenation of Arachidonoyl PE by 15LOX/PEBP1: Mechanism and Role in Ferroptosis. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	4
5	Successive High-Resolution (HO)-GCIB and C-SIMS Imaging Integrates Multi-Omics in Different Cell Types in Breast Cancer Tissue. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 8143-8151	7.8	4
4	Amelioration of Amyotrophic Lateral Sclerosis in SOD1 Mice by M Microglia from Transplanted Marrow. <i>In Vivo</i> , <b>2019</b> , 33, 675-688	2.3	3
3	Inactivation of RIP3 kinase sensitizes to 15LOX/PEBP1-mediated ferroptotic death.. <i>Redox Biology</i> , <b>2022</b> , 50, 102232	11.3	1
2	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</i> , <b>2021</b> , 133, 11890-11894	3.6	0
1	Tandem Therapeutic Plasma Exchange Reduces Continuous Renal Replacement Therapy Downtime. <i>Blood Purification</i> , <b>2021</b> , 1-8	3.1	0