Steven Claypool

List of Publications by Year
in descending order

73 papers	4,343 citations	109321 35 h-index	114465 63 g-index
83 all docs	83 docs citations	83 times ranked	5033 citing authors

#	Article	IF	Citations
1	Human Neonatal Fc Receptor Mediates Transport of IgG into Luminal Secretions for Delivery of Antigens to Mucosal Dendritic Cells. Immunity, 2004, 20, 769-783.	14.3	429
2	The complexity of cardiolipin in health and disease. Trends in Biochemical Sciences, 2012, 37, 32-41.	7.5	289
3	Cardiolipin defines the interactome of the major ADP/ATP carrier protein of the mitochondrial inner membrane. Journal of Cell Biology, 2008, 182, 937-950.	5.2	273
4	Phosphatidylethanolamine Metabolism in Health and Disease. International Review of Cell and Molecular Biology, 2016, 321, 29-88.	3.2	269
5	Neonatal Fc receptor for IgG regulates mucosal immune responses to luminal bacteria. Journal of Clinical Investigation, 2006, 116, 2142-2151.	8.2	199
6	Cardiolipin, a critical determinant of mitochondrial carrier protein assembly and function. Biochimica Et Biophysica Acta - Biomembranes, 2009, 1788, 2059-2068.	2.6	170
7	Bidirectional Transepithelial IgG Transport by a Strongly Polarized Basolateral Membrane Fcî3-Receptor. Molecular Biology of the Cell, 2004, 15, 1746-1759.	2.1	142
8	Mitochondrial mislocalization and altered assembly of a cluster of Barth syndrome mutant tafazzins. Journal of Cell Biology, 2006, 174, 379-390.	5.2	129
9	Disorders of phospholipid metabolism: an emerging class of mitochondrial disease due to defects in nuclear genes. Frontiers in Genetics, 2015, 6, 3.	2.3	116
10	Cardiolipin, Mitochondria, and Neurological Disease. Trends in Endocrinology and Metabolism, 2021, 32, 224-237.	7.1	113
11	Role for Two Conserved Intermembrane Space Proteins, Ups1p and Up2p, in Intra-mitochondrial Phospholipid Trafficking. Journal of Biological Chemistry, 2012, 287, 15205-15218.	3.4	101
12	Unremodeled and Remodeled Cardiolipin Are Functionally Indistinguishable in Yeast. Journal of Biological Chemistry, 2014, 289, 1768-1778.	3.4	100
13	Functional Reconstitution of Human FcRn in Madin-Darby Canine Kidney Cells Requires Co-expressed Human Î²2-Microglobulin. Journal of Biological Chemistry, 2002, 277, 28038-28050.	3.4	98
14	The Cardiolipin Transacylase, Tafazzin, Associates with Two Distinct Respiratory Components Providing Insight into Barth Syndrome. Molecular Biology of the Cell, 2008, 19, 5143-5155.	2.1	97
15	Mitochondria Influence CDR1 Efflux Pump Activity, Hog1-Mediated Oxidative Stress Pathway, Iron Homeostasis, and Ergosterol Levels in Candida albicans. Antimicrobial Agents and Chemotherapy, 2013, 57, 5580-5599.	3.2	79
16	Phosphatidylethanolamine made in the inner mitochondrial membrane is essential for yeast cytochrome bc1 complex function. Nature Communications, 2019, 10, 1432.	12.8	72
17	Characterization of the porcine neonatal Fc receptor-potential use for trans-epithelial protein delivery. Immunology, 2005, 114, 542-553.	4.4	70
18	Seven functional classes of Barth syndrome mutation. Human Molecular Genetics, 2013, 22, 483-492.	2.9	67

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19	The Mammalian Malonyl-CoA Synthetase ACSF3 Is Required for Mitochondrial Protein Malonylation and Metabolic Efficiency. Cell Chemical Biology, 2017, 24, 673-684.e4.	5.2	65
20	Acyl-CoA thioesterase-2 facilitates mitochondrial fatty acid oxidation in the liver. Journal of Lipid Research, 2014, 55, 2458-2470.	4.2	64
21	IgG transport across mucosal barriers by neonatal Fc receptor for IgG and mucosal immunity. Seminars in Immunopathology, 2006, 28, 397-403.	4.0	63
22	Phospholipid ebb and flow makes mitochondria go. Journal of Cell Biology, 2020, 219, .	5.2	63
23	Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2-mediated hyperfusion of mitochondria. Molecular Biology of the Cell, 2017, 28, 600-612.	2.1	61
24	Developmental Regulation of TCRÎ´ Locus Accessibility and Expression by the TCRÎ´ Enhancer. Immunity, 1999, 10, 503-513.	14.3	60
25	Barth syndrome mutations that cause tafazzin complex lability. Journal of Cell Biology, 2011, 192, 447-462.	5.2	58
26	Deacylation on the matrix side of the mitochondrial inner membrane regulates cardiolipin remodeling. Molecular Biology of the Cell, 2013, 24, 2008-2020.	2.1	55
27	Defining functional classes of Barth syndrome mutation in humans. Human Molecular Genetics, 2016, 25, 1754-1770.	2.9	53
28	The topology and regulation of cardiolipin biosynthesis and remodeling in yeast. Chemistry and Physics of Lipids, 2014, 179, 25-31.	3.2	52
29	Metalloprotease OMA1 Fine-tunes Mitochondrial Bioenergetic Function and Respiratory Supercomplex Stability. Scientific Reports, 2015, 5, 13989.	3.3	52
30	Impaired Cardiolipin Biosynthesis Prevents Hepatic Steatosis and Diet-Induced Obesity. Diabetes, 2016, 65, 3289-3300.	0.6	50
31	N-Glycan Moieties in Neonatal Fc Receptor Determine Steady-state Membrane Distribution and Directional Transport of IgG. Journal of Biological Chemistry, 2009, 284, 8292-8300.	3.4	49
32	Ca²⁺-dependent Calmodulin Binding to FcRn Affects Immunoglobulin G Transport in the Transcytotic Pathway. Molecular Biology of the Cell, 2008, 19, 414-423.	2.1	47
33	Tim54p connects inner membrane assembly and proteolytic pathways in the mitochondrion. Journal of Cell Biology, 2007, 178, 1161-1175.	5.2	45
34	Antigen presentation by intestinal epithelial cells. Immunology Letters, 1999, 69, 7-11.	2.5	44
35	Phosphatidylethanolamine Biosynthesis in Mitochondria. Journal of Biological Chemistry, 2012, 287, 43961-43971.	3.4	42
36	PISDis a mitochondrial disease gene causing skeletal dysplasia, cataracts, and white matter changes. Life Science Alliance, 2019, 2, e201900353.	2.8	41

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37	Systems Analysis of the 22q11.2 Microdeletion Syndrome Converges on a Mitochondrial Interactome Necessary for Synapse Function and Behavior. Journal of Neuroscience, 2019, 39, 1983-18.	3.6	38
38	Human adenine nucleotide translocases physically and functionally interact with respirasomes. Molecular Biology of the Cell, 2017, 28, 1489-1506.	2.1	37
39	The power of yeast to model diseases of the powerhouse of the cell. Frontiers in Bioscience - Landmark, 2013, 18, 241.	3.0	34
40	The Mitochondrial Transacylase, Tafazzin, Regulates AML Stemness by Modulating Intracellular Levels of Phospholipids. Cell Stem Cell, 2019, 24, 621-636.e16.	11.1	32
41	Mitochondrial compartmentalization: emerging themes in structure and function. Trends in Biochemical Sciences, 2021, 46, 902-917.	7.5	32
42	KrÃ¼ppel-like factor 4 (KLF4) induces mitochondrial fusion and increases spare respiratory capacity of human glioblastoma cells. Journal of Biological Chemistry, 2018, 293, 6544-6555.	3.4	31
43	The mitochondrial carrier SFXN1 is critical for complex III integrity and cellular metabolism. Cell Reports, 2021, 34, 108869.	6.4	30
44	Specific degradation of phosphatidylglycerol is necessary for proper mitochondrial morphology and function. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 34-45.	1.0	29
45	Multitiered and Cooperative Surveillance of Mitochondrial Phosphatidylserine Decarboxylase 1. Molecular and Cellular Biology, 2017, 37, .	2.3	29
46	Cardiolipin, conformation, and respiratory complex-dependent oligomerization of the major mitochondrial ADP/ATP carrier in yeast. Science Advances, 2020, 6, eabb0780.	10.3	28
47	Tafazzin deficiency impairs CoA-dependent oxidative metabolism in cardiac mitochondria. Journal of Biological Chemistry, 2020, 295, 12485-12497.	3.4	24
48	Regulation of mitochondrial fragmentation in microvascular endothelial cells isolated from the SU5416/hypoxia model of pulmonary arterial hypertension. American Journal of Physiology - Lung Cellular and Molecular Physiology, 2019, 317, L639-L652.	2.9	23
49	Phosphatidylserine Decarboxylase 1 Autocatalysis and Function Does Not Require a Mitochondrial-specific Factor. Journal of Biological Chemistry, 2015, 290, 12744-12752.	3.4	22
50	Emerging Roles in the Biogenesis of Cytochrome c Oxidase for Members of the Mitochondrial Carrier Family. Frontiers in Cell and Developmental Biology, 2019, 7, 3.	3.7	21
51	Natural and Induced Mitochondrial Phosphate Carrier Loss. Journal of Biological Chemistry, 2016, 291, 26126-26137.	3.4	18
52	Adenine nucleotide translocase regulates airway epithelial metabolism, surface hydration and ciliary function. Journal of Cell Science, 2021, 134, .	2.0	18
53	Cardiomyopathy-associated mutation in the ADP/ATP carrier reveals translation-dependent regulation of cytochromecoxidase activity. Molecular Biology of the Cell, 2018, 29, 1449-1464.	2.1	16
54	The multiple roles of major histocompatibility complex class-I-like molecules in mucosal immune function. Acta Odontologica Scandinavica, 2001, 59, 139-144.	1.6	15

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55	Impaired phosphatidylethanolamine metabolism activates a reversible stress response that detects and resolves mutant mitochondrial precursors. IScience, 2021, 24, 102196.	4.1	15
56	The Taz1p Transacylase Is Imported and Sorted into the Outer Mitochondrial Membrane via a Membrane Anchor Domain. Eukaryotic Cell, 2013, 12, 1600-1608.	3.4	11
57	Tafazzins from Drosophila and mammalian cells assemble in large protein complexes with a short half-life. Mitochondrion, 2015, 21, 27-32.	3.4	11
58	Secretory pathway Ca2+-ATPase SPCA2 regulates mitochondrial respiration and DNA damage response through store-independent calcium entry. Redox Biology, 2022, 50, 102240.	9.0	9
59	Diverse mitochondrial abnormalities in a new cellular model of TAFFAZZIN deficiency are remediated by cardiolipin-interacting small molecules. Journal of Biological Chemistry, 2021, 297, 101005.	3.4	7
60	Proteolytic Control of Lipid Metabolism. ACS Chemical Biology, 2019, 14, 2406-2423.	3.4	6
61	The Influence of Supplemental Dietary Linoleic Acid on Skeletal Muscle Contractile Function in a Rodent Model of Barth Syndrome. Frontiers in Physiology, 2021, 12, 731961.	2.8	6
62	Hereditary Spastic Paraplegia: Respiratory Choke or Unactivated Substrate?. Cell, 2005, 123, 183-185.	28.9	5
63	Tafazzin Modulates Allergen-Induced Mast Cell Inflammatory Mediator Secretion. ImmunoHorizons, 2021, 5, 182-192.	1.8	5
64	Cardiolipinâ€™s Remodeling Rules Revealed: The Role of the Cellular Lipidome. Cell Reports, 2020, 30, 3949-3950.	6.4	3
65	Role for two conserved intermembrane space proteins, Ups1p and Ups2p, in intra-mitochondrial phospholipid trafficking.. Journal of Biological Chemistry, 2012, 287, 27450.	3.4	0
66	Cardiolipinâ€dependent Carriers. FASEB Journal, 2021, 35, .	0.5	0
67	Altered Membrane Association and Complex Formation of Tafazzin in the Absence of Cardiolipin. FASEB Journal, 2006, 20, A59.	0.5	0
68	Defining Trafficking Steps Required for Cardiolipin Remodeling. FASEB Journal, 2013, 27, 585.14.	0.5	0
69	Characterizing Mitochondrial Phostidylserine Decarboxylase 1. FASEB Journal, 2013, 27, 585.17.	0.5	0
70	Topological Difference but Dysfunctional Conservation of Cardiolipin Remodeling in Yeast and Mammals. FASEB Journal, 2015, 29, 885.12.	0.5	0
71	Tafazzin (TAZ) Regulates the Differentiation of AML Cells By Reducing Levels of the Phospholipid Phosphatidylethanolamine. Blood, 2017, 130, 788-788.	1.4	0
72	Impaired Phosphatidylethanolamine Metabolism Activates a Reversible Stress Response that Detects and Resolves Mutant Mitochondrial Precursors. SSRN Electronic Journal, 0, , .	0.4	0

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73	Investigating Mitochondrial Dysfunction in Barth Syndrome. FASEB Journal, 2022, 36, .	0.5	0