

Carla M Koehler

List of Publications by Year in Descending Order

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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.

66

papers

4,627

citations

37

h-index

68

g-index

70

ext. papers

5,106

ext. citations

8.5

avg, IF

5.43

L-index

#	Paper	IF	Citations
66	Structural basis for the mechanisms of human presequence protease conformational switch and substrate recognition.. <i>Nature Communications</i> , 2022 , 13, 1833	17.4	0
65	Aim32 is a dual-localized 2Fe-2S mitochondrial protein that functions in redox quality control. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101135	5.4	1
64	Mitochondrial Calcium Uniporter Deficiency in Zebrafish Causes Cardiomyopathy With Arrhythmia. <i>Frontiers in Physiology</i> , 2020 , 11, 617492	4.6	5
63	ER-mitochondria contacts: Actin dynamics at the ER control mitochondrial fission via calcium release. <i>Journal of Cell Biology</i> , 2018 , 217, 15-17	7.3	27
62	PNPase knockout results in mtDNA loss and an altered metabolic gene expression program. <i>PLoS ONE</i> , 2018 , 13, e0200925	3.7	7
61	A Chemical Biology Approach to Model Pontocerebellar Hypoplasia Type 1B (PCH1B). <i>ACS Chemical Biology</i> , 2018 , 13, 3000-3010	4.9	5
60	FAM210B is an erythropoietin target and regulates erythroid heme synthesis by controlling mitochondrial iron import and ferrochelatase activity. <i>Journal of Biological Chemistry</i> , 2018 , 293, 19797-19811	5.4	16
59	Rapid degradation of mutant SLC25A46 by the ubiquitin-proteasome system results in MFN1/2-mediated hyperfusion of mitochondria. <i>Molecular Biology of the Cell</i> , 2017 , 28, 600-612	3.5	50
58	Adaptation of a Genetic Screen Reveals an Inhibitor for Mitochondrial Protein Import Component Tim44. <i>Journal of Biological Chemistry</i> , 2017 , 292, 5429-5442	5.4	6
57	Stendomycin selectively inhibits TIM23-dependent mitochondrial protein import. <i>Nature Chemical Biology</i> , 2017 , 13, 1239-1244	11.7	15
56	Osm1 facilitates the transfer of electrons from Erv1 to fumarate in the redox-regulated import pathway in the mitochondrial intermembrane space. <i>Molecular Biology of the Cell</i> , 2017 , 28, 2773-2785	3.5	21
55	Atomic structure of a toxic, oligomeric segment of SOD1 linked to amyotrophic lateral sclerosis (ALS). <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, 8770-8775	11.5	60
54	Repurposing Approach Identifies Auranofin with Broad Spectrum Antifungal Activity That Targets Mia40-Erv1 Pathway. <i>Frontiers in Cellular and Infection Microbiology</i> , 2017 , 7, 4	5.9	53
53	P53 Regulates Rapid Apoptosis in Human Pluripotent Stem Cells. <i>Journal of Molecular Biology</i> , 2016 , 428, 1465-75	6.5	17
52	Loss of function of SLC25A46 causes lethal congenital pontocerebellar hypoplasia. <i>Brain</i> , 2016 , 139, 2877-2890	11.2	58
51	Defining functional classes of Barth syndrome mutation in humans. <i>Human Molecular Genetics</i> , 2016 , 25, 1754-70	5.6	37
50	Mitochondrial Transfer by Photothermal Nanoblade Restores Metabolite Profile in Mammalian Cells. <i>Cell Metabolism</i> , 2016 , 23, 921-9	24.6	59

49	Mitochondria-targeted RNA import. <i>Methods in Molecular Biology</i> , 2015 , 1264, 107-16	1.4	9
48	Mia40 Protein Serves as an Electron Sink in the Mia40-Erv1 Import Pathway. <i>Journal of Biological Chemistry</i> , 2015 , 290, 20804-20814	5.4	10
47	Pharmacologic rescue of an enzyme-trafficking defect in primary hyperoxaluria 1. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 14406-11	11.5	45
46	Defining the role of oxygen tension in human neural progenitor fate. <i>Stem Cell Reports</i> , 2014 , 3, 743-57	8	48
45	The great escape: Mgr2 of the mitochondrial TIM23 translocon is a gatekeeper Tasked with releasing membrane proteins. <i>Molecular Cell</i> , 2014 , 56, 613-4	17.6	4
44	A small molecule inhibitor of redox-regulated protein translocation into mitochondria. <i>Developmental Cell</i> , 2013 , 25, 81-92	10.2	56
43	The Taz1p transacylase is imported and sorted into the outer mitochondrial membrane via a membrane anchor domain. <i>Eukaryotic Cell</i> , 2013 , 12, 1600-8		9
42	Tmem14c Plays An Essential Role In Mitochondrial Heme Metabolism. <i>Blood</i> , 2013 , 122, 427-427	2.2	1
41	PNPASE and RNA trafficking into mitochondria. <i>Biochimica Et Biophysica Acta - Gene Regulatory Mechanisms</i> , 2012 , 1819, 998-1007	6	60
40	A mutation in PNPT1, encoding mitochondrial-RNA-import protein PNPase, causes hereditary hearing loss. <i>American Journal of Human Genetics</i> , 2012 , 91, 919-27	11	64
39	Correcting human mitochondrial mutations with targeted RNA import. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 4840-5	11.5	96
38	Role of twin Cys-Xaa9-Cys motif cysteines in mitochondrial import of the cytochrome C oxidase biogenesis factor Cmc1. <i>Journal of Biological Chemistry</i> , 2012 , 287, 31258-69	5.4	16
37	Megaloblastic Anemia and Mitochondriopathy Caused by a Homozygous Mutation in Sideroflexin-4.. <i>Blood</i> , 2012 , 120, 79-79	2.2	
36	Barth syndrome mutations that cause tafazzin complex lability. <i>Journal of Cell Biology</i> , 2011 , 192, 447-62	7.3	49
35	MTCH2/MIMP is a major facilitator of tBID recruitment to mitochondria. <i>Nature Cell Biology</i> , 2010 , 12, 553-562	23.4	134
34	Substrate specificity of the TIM22 mitochondrial import pathway revealed with small molecule inhibitor of protein translocation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010 , 107, 9578-83	11.5	32
33	The mitochondrial import gene tomm22 is specifically required for hepatocyte survival and provides a liver regeneration model. <i>DMM Disease Models and Mechanisms</i> , 2010 , 3, 486-95	4.1	27
32	PNPASE regulates RNA import into mitochondria. <i>Cell</i> , 2010 , 142, 456-67	56.2	256

31	Reconstitution of the mia40-erv1 oxidative folding pathway for the small tim proteins. <i>Molecular Biology of the Cell</i> , 2009 , 20, 3481-90	3.5	57
30	Redox regulation of protein folding in the mitochondrial intermembrane space. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2009 , 1793, 139-45	4.9	48
29	Importing mitochondrial proteins: machineries and mechanisms. <i>Cell</i> , 2009 , 138, 628-44	56.2	993
28	Assembly of the three small Tim proteins precedes docking to the mitochondrial carrier translocase. <i>EMBO Reports</i> , 2008 , 9, 548-54	6.5	45
27	The Tim8-Tim13 complex has multiple substrate binding sites and binds cooperatively to Tim23. <i>Journal of Molecular Biology</i> , 2008 , 382, 1144-56	6.5	53
26	A role for cytochrome c and cytochrome c peroxidase in electron shuttling from Erv1. <i>EMBO Journal</i> , 2007 , 26, 4801-11	13	136
25	Contiguous X-chromosome deletion syndrome encompassing the BTK, TIMM8A, TAF7L, and DRP2 genes. <i>Journal of Clinical Immunology</i> , 2007 , 27, 640-6	5.7	26
24	Tim54p connects inner membrane assembly and proteolytic pathways in the mitochondrion. <i>Journal of Cell Biology</i> , 2007 , 178, 1161-75	7.3	39
23	The Function of TIM22 in the Insertion of Inner Membrane Proteins in Mitochondria. <i>The Enzymes</i> , 2007 , 367-385	2.3	
22	The TCL1 oncoprotein binds the RNase PH domains of the PNPase exoribonuclease without affecting its RNA degrading activity. <i>Cancer Letters</i> , 2007 , 248, 198-210	9.9	22
21	In vitro analysis of yeast mitochondrial protein import. <i>Current Protocols in Cell Biology</i> , 2007 , Chapter 11, Unit 11.19	2.3	10
20	Mitochondrial mislocalization and altered assembly of a cluster of Barth syndrome mutant tafazzins. <i>Journal of Cell Biology</i> , 2006 , 174, 379-90	7.3	111
19	A new function in translocation for the mitochondrial i-AAA protease Yme1: import of polynucleotide phosphorylase into the intermembrane space. <i>Molecular and Cellular Biology</i> , 2006 , 26, 8488-97	4.8	85
18	Mammalian polynucleotide phosphorylase is an intermembrane space RNase that maintains mitochondrial homeostasis. <i>Molecular and Cellular Biology</i> , 2006 , 26, 8475-87	4.8	111
17	Redox pathways of the mitochondrion. <i>Antioxidants and Redox Signaling</i> , 2006 , 8, 813-22	8.4	84
16	Tim54p mediates the assembly of the AAA protease Yme1p. <i>FASEB Journal</i> , 2006 , 20, A494	0.9	
15	Altered Membrane Association and Complex Formation of Tafazzin in the Absence of Cardiolipin. <i>FASEB Journal</i> , 2006 , 20, A59	0.9	
14	The calcium-binding aspartate/glutamate carriers, citrin and aralar1, are new substrates for the DDP1/TIMM8a-TIMM13 complex. <i>Human Molecular Genetics</i> , 2004 , 13, 2101-11	5.6	52

13	The role of Hot13p and redox chemistry in the mitochondrial TIM22 import pathway. <i>Journal of Biological Chemistry</i> , 2004 , 279, 43744-51	5.4	76
12	The small Tim proteins and the twin Cx3C motif. <i>Trends in Biochemical Sciences</i> , 2004 , 29, 1-4	10.3	113
11	New developments in mitochondrial assembly. <i>Annual Review of Cell and Developmental Biology</i> , 2004 , 20, 309-35	12.6	270
10	A mitochondrial rhomboid protease. <i>Developmental Cell</i> , 2003 , 4, 769-70	10.2	25
9	The Tim9p-Tim10p complex binds to the transmembrane domains of the ADP/ATP carrier. <i>EMBO Journal</i> , 2002 , 21, 942-53	13	166
8	Human deafness dystonia syndrome is caused by a defect in assembly of the DDP1/TIMM8a-TIMM13 complex. <i>Human Molecular Genetics</i> , 2002 , 11, 477-86	5.6	140
7	The role of the Tim8p-Tim13p complex in a conserved import pathway for mitochondrial polytopic inner membrane proteins. <i>Journal of Cell Biology</i> , 2002 , 158, 1017-27	7.3	114
6	The essential function of the small Tim proteins in the TIM22 import pathway does not depend on formation of the soluble 70-kilodalton complex. <i>Molecular and Cellular Biology</i> , 2001 , 21, 6132-8	4.8	32
5	Tim18p, a new subunit of the TIM22 complex that mediates insertion of imported proteins into the yeast mitochondrial inner membrane. <i>Molecular and Cellular Biology</i> , 2000 , 20, 1187-93	4.8	95
4	Protein translocation pathways of the mitochondrion. <i>FEBS Letters</i> , 2000 , 476, 27-31	3.8	86
3	Mitochondrial import of the long and short isoforms of human uncoupling protein 3. <i>FEBS Letters</i> , 2000 , 465, 135-40	3.8	10
2	How membrane proteins travel across the mitochondrial intermembrane space. <i>Trends in Biochemical Sciences</i> , 1999 , 24, 428-32	10.3	128
1	Interaction of mitochondrial targeting signals with acidic receptor domains along the protein import pathway: evidence for the acid chain hypothesis. <i>EMBO Journal</i> , 1998 , 17, 3886-98	13	147