Ann E Frazier

List of Publications by Year
in descending order

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40 papers	4,211 citations	201674 27 h-index	302126 39 g-index
43 all docs	43 docs citations	43 times ranked	5941 citing authors

#	Article	IF	Citations
1	MiD49 and MiD51, new components of the mitochondrial fission machinery. EMBO Reports, 2011, 12, 565-573.	4.5	527
2	Accessory subunits are integral for assembly and function of human mitochondrial complex I. Nature, 2016, 538, 123-126.	27.8	429
3	Mitochondrial Presequence Translocase: Switching between TOM Tethering and Motor Recruitment Involves Tim21 and Tim17. Cell, 2005, 120, 817-829.	28.9	315
4	The Protein Import Machinery of Mitochondria. Journal of Biological Chemistry, 2004, 279, 14473-14476.	3.4	294
5	A J-protein is an essential subunit of the presequence translocaseâ€“associated protein import motor of mitochondria. Journal of Cell Biology, 2003, 163, 707-713.	5.2	191
6	Pam16 has an essential role in the mitochondrial protein import motor. Nature Structural and Molecular Biology, 2004, 11, 226-233.	8.2	189
7	Taz1, an Outer Mitochondrial Membrane Protein, Affects Stability and Assembly of Inner Membrane Protein Complexes: Implications for Barth Syndrome. Molecular Biology of the Cell, 2005, 16, 5202-5214.	2.1	185
8	Mitochondrial energy generation disorders: genes, mechanisms, and clues to pathology. Journal of Biological Chemistry, 2019, 294, 5386-5395.	3.4	177
9	Mitochondrial protein-import machinery: correlating structure with function. Trends in Cell Biology, 2007, 17, 456-464.	7.9	176
10	Mitochondrial translocation contact sites: separation of dynamic and stabilizing elements in formation of a TOM-TIM-preprotein supercomplex. EMBO Journal, 2003, 22, 5370-5381.	7.8	141
11	Mdm38 interacts with ribosomes and is a component of the mitochondrial protein export machinery. Journal of Cell Biology, 2006, 172, 553-564.	5.2	118
12	Shy1 couples Cox1 translational regulation to cytochrome c oxidase assembly. EMBO Journal, 2007, 26, 4347-4358.	7.8	117
13	N-Acetylcysteine improves mitochondrial function and ameliorates behavioral deficits in the R6/1 mouse model of Huntington's disease. Translational Psychiatry, 2015, 5, e492-e492.	4.8	105
14	ATAD3 gene cluster deletions cause cerebellar dysfunction associated with altered mitochondrial DNA and cholesterol metabolism. Brain, 2017, 140, 1595-1610.	7.6	105
15	Mitochondrial morphology and distribution in mammalian cells. Biological Chemistry, 2006, 387, 1551-1558.	2.5	103
16	Mutations in the UQCC1-Interacting Protein, UQCC2, Cause Human Complex III Deficiency Associated with Perturbed Cytochrome b Protein Expression. PLoS Genetics, 2013, 9, e1004034.	3.5	96
17	Sengers Syndrome-Associated Mitochondrial Acylglycerol Kinase Is a Subunit of the Human TIM22 Protein Import Complex. Molecular Cell, 2017, 67, 457-470.e5.	9.7	96
18	COA6 is a mitochondrial complex IV assembly factor critical for biogenesis of mtDNA-encoded COX2. Human Molecular Genetics, 2015, 24, 5404-5415.	2.9	89

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19	Biochemical Analyses of the Electron Transport Chain Complexes by Spectrophotometry. Methods in Molecular Biology, 2012, 837, 49-62.	0.9	86
20	Inhibition of Bak Activation by VDAC2 Is Dependent on the Bak Transmembrane Anchor. Journal of Biological Chemistry, 2010, 285, 36876-36883.	3.4	83
21	Human Miltons associate with mitochondria and induce microtubule-dependent remodeling of mitochondrial networks. Biochimica Et Biophysica Acta - Molecular Cell Research, 2010, 1803, 564-574.	4.1	64
22	Mitochondrial OXA Translocase Plays a Major Role in Biogenesis of Inner-Membrane Proteins. Cell Metabolism, 2016, 23, 901-908.	16.2	60
23	Characterization of mitochondrial FOXRED1 in the assembly of respiratory chain complex I. Human Molecular Genetics, 2015, 24, 2952-2965.	2.9	59
24	Mitochondria Use Different Mechanisms for Transport of Multispanning Membrane Proteins through the Intermembrane Space. Molecular and Cellular Biology, 2003, 23, 7818-7828.	2.3	58
25	Structural and Functional Requirements for Activity of the Tim9â€“Tim10 Complex in Mitochondrial Protein Import. Molecular Biology of the Cell, 2009, 20, 769-779.	2.1	58
26	High-intensity training induces non-stoichiometric changes in the mitochondrial proteome of human skeletal muscle without reorganisation of respiratory chain content. Nature Communications, 2021, 12, 7056.	12.8	45
27	Function of hTim8a in complex IV assembly in neuronal cells provides insight into pathomechanism underlying Mohr-TranebjÃ¦rg syndrome. ELife, 2019, 8, .	6.0	34
28	Fatal Perinatal Mitochondrial Cardiac Failure Caused by Recurrent De Novo Duplications in the ATAD3 Locus. Med, 2021, 2, 49-73.e10.	4.4	33
29	Assessment of mitochondrial respiratory chain enzymes in cells and tissues. Methods in Cell Biology, 2020, 155, 121-156.	1.1	32
30	Functional Characterization of Friedreich Ataxia iPS-Derived Neuronal Progenitors and Their Integration in the Adult Brain. PLoS ONE, 2014, 9, e101718.	2.5	27
31	The TIM22 complex mediates the import of sideroflexins and is required for efficient mitochondrial one-carbon metabolism. Molecular Biology of the Cell, 2021, 32, 475-491.	2.1	19
32	Neuronal and astrocyte dysfunction diverges from embryonic fibroblasts in the Ndufs4fky/fky mouse. Bioscience Reports, 2014, 34, e00151.	2.4	18
33	Loss of BIM increases mitochondrial oxygen consumption and lipid oxidation, reduces adiposity and improves insulin sensitivity in mice. Cell Death and Differentiation, 2018, 25, 217-225.	11.2	18
34	Modelling Mitochondrial Disease in Human Pluripotent Stem Cells: What Have We Learned?. International Journal of Molecular Sciences, 2021, 22, 7730.	4.1	14
35	Modelling biochemical features of mitochondrial neuropathology. Biochimica Et Biophysica Acta - General Subjects, 2014, 1840, 1380-1392.	2.4	13
36	Sideroflexin 4 is a complex I assembly factor that interacts with the MCIA complex and is required for the assembly of the ND2 module. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2115566119.	7.1	10

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37	Reply: Genotype-phenotype correlation in ATAD3A deletions: not just of scientific relevance. Brain, 2017, 140, e67-e67.	7.6	9
38	Deletion of the Complex I Subunit NDUFS4 Adversely Modulates Cellular Differentiation. Stem Cells and Development, 2016, 25, 239-250.	2.1	8
39	Rothmund-Thomson Syndrome-Like RECQL4 Truncating Mutations Cause a Haploinsufficient Low-Bone-Mass Phenotype in Mice. Molecular and Cellular Biology, 2021, 41, .	2.3	5
40	An ENU Mutagenesis Screen of FLT3-ITD Knock-in Mice Identifies Novel Gene Mutations That Lead to an Exacerbated Myeloproliferative Neoplasm. Blood, 2014, 124, 3591-3591.	1.4	0