David A Stroud

List of Publications by Year
in descending order

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49 papers	3,305 citations	172457 29 h-index	189892 50 g-index
62 all docs	62 docs citations	62 times ranked	4281 citing authors

#	Article	IF	Citations
1	Accessory subunits are integral for assembly and function of human mitochondrial complex I. Nature, 2016, 538, 123-126.	27.8	429
2	Cooperative and independent roles of Drp1 adaptors Mff and MiD49/51 in mitochondrial fission. Journal of Cell Science, 2016, 129, 2170-81.	2.0	234
3	Mitochondrial Cardiolipin Involved in Outer-Membrane Protein Biogenesis: Implications for Barth Syndrome. Current Biology, 2009, 19, 2133-2139.	3.9	204
4	Building a complex complex: Assembly of mitochondrial respiratory chain complex I. Seminars in Cell and Developmental Biology, 2018, 76, 154-162.	5.0	145
5	Composition and Topology of the Endoplasmic Reticulumâ€“Mitochondria Encounter Structure. Journal of Molecular Biology, 2011, 413, 743-750.	4.2	143
6	Dual Function of Sdh3 in the Respiratory Chain and TIM22 Protein Translocase of the Mitochondrial Inner Membrane. Molecular Cell, 2011, 44, 811-818.	9.7	121
7	Coupling of Mitochondrial Import and Export Translocases by Receptor-Mediated Supercomplex Formation. Cell, 2013, 154, 596-608.	28.9	115
8	Role of MINOS in Mitochondrial Membrane Architecture: Cristae Morphology and Outer Membrane Interactions Differentially Depend on Mitofilin Domains. Journal of Molecular Biology, 2012, 422, 183-191.	4.2	112
9	Membrane protein insertion through a mitochondrial Î²-barrel gate. Science, 2018, 359, .	12.6	111
10	Role of mitochondrial inner membrane organizing system in protein biogenesis of the mitochondrial outer membrane. Molecular Biology of the Cell, 2012, 23, 3948-3956.	2.1	108
11	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
12	Structural and functional analysis of MiD51, a dynamin receptor required for mitochondrial fission. Journal of Cell Biology, 2014, 204, 477-486.	5.2	91
13	Two Modular Forms of the Mitochondrial Sorting and Assembly Machinery Are Involved in Biogenesis of Î±-Helical Outer Membrane Proteins. Journal of Molecular Biology, 2010, 396, 540-549.	4.2	89
14	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
15	Mitochondrial peptide BRAWNIN is essential for vertebrate respiratory complex III assembly. Nature Communications, 2020, 11, 1312.	12.8	87
16	Biallelic Mutations in MRPS34 Lead to Instability of the Small Mitoribosomal Subunit and Leigh Syndrome. American Journal of Human Genetics, 2017, 101, 239-254.	6.2	83
17	Mitochondriaâ€”hubs for regulating cellular biochemistry: emerging concepts and networks. Open Biology, 2019, 9, 190126.	3.6	69
18	Gene Knockout Using Transcription Activator-like Effector Nucleases (TALENs) Reveals That Human NDUFA9 Protein Is Essential for Stabilizing the Junction between Membrane and Matrix Arms of Complex I. Journal of Biological Chemistry, 2013, 288, 1685-1690.	3.4	68

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19	Dissecting the Roles of Mitochondrial Complex I Intermediate Assembly Complex Factors in the Biogenesis of Complex I. Cell Reports, 2020, 31, 107541.	6.4	64
20	A Founder Mutation in PET100 Causes Isolated Complex IV Deficiency in Lebanese Individuals with Leigh Syndrome. American Journal of Human Genetics, 2014, 94, 209-222.	6.2	60
21	Characterization of mitochondrial FOXRED1 in the assembly of respiratory chain complex I. Human Molecular Genetics, 2015, 24, 2952-2965.	2.9	59
22	Assembly of the Mitochondrial Protein Import Channel. Molecular Biology of the Cell, 2010, 21, 3106-3113.	2.1	54
23	<scp>OXA</scp> 1L mutations cause mitochondrial encephalopathy and a combined oxidative phosphorylation defect. EMBO Molecular Medicine, 2018, 10, .	6.9	54
24	Biogenesis of mitochondrial Î²-barrel proteins: the POTRA domain is involved in precursor release from the SAM complex. Molecular Biology of the Cell, 2011, 22, 2823-2833.	2.1	47
25	Loss of the Mitochondrial Fatty Acid Î²-Oxidation Protein Medium-Chain Acyl-Coenzyme A Dehydrogenase Disrupts Oxidative Phosphorylation Protein Complex Stability and Function. Scientific Reports, 2018, 8, 153.	3.3	47
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	The Mitochondrial Acyl-carrier Protein Interaction Network Highlights Important Roles for LYRM Family Members in Complex I and Mitoribosome Assembly. Molecular and Cellular Proteomics, 2020, 19, 65-77.	3.8	43
28	Evolution of mitochondrial protein biogenesis. Biochimica Et Biophysica Acta - General Subjects, 2009, 1790, 409-415.	2.4	41
29	HIGD2A is Required for Assembly of the COX3 Module of Human Mitochondrial Complex IV. Molecular and Cellular Proteomics, 2020, 19, 1145-1160.	3.8	37
30	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
31	Fatal Perinatal Mitochondrial Cardiac Failure Caused by Recurrent De Novo Duplications in the ATAD3 Locus. Med, 2021, 2, 49-73.e10.	4.4	33
32	Blackout in the powerhouse: clinical phenotypes associated with defects in the assembly of OXPHOS complexes and the mitoribosome. Biochemical Journal, 2020, 477, 4085-4132.	3.7	27
33	The road to the structure of the mitochondrial respiratory chain supercomplex. Biochemical Society Transactions, 2020, 48, 621-629.	3.4	25
34	A novel isoform of the human mitochondrial complex I subunit <scp>NDUFV</scp>3. FEBS Letters, 2017, 591, 109-117.	2.8	22
35	Metabolic remodeling of dystrophic skeletal muscle reveals biological roles for dystrophin and utrophin in adaptation and plasticity. Molecular Metabolism, 2021, 45, 101157.	6.5	22
36	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

#	Article	IF	Citations
37	Multiomic analysis elucidates Complex I deficiency caused by a deep intronic variant in NDUFB10. Human Mutation, 2021, 42, 19-24.	2.5	17
38	Structural and functional characterization of the mitochondrial complex IV assembly factor Coa6. Life Science Alliance, 2019, 2, e201900458.	2.8	15
39	Optic atrophyâ€“associated TMEM126A is an assembly factor for the ND4-module of mitochondrial complex I. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	14
40	Mitochondrial COA7 is a heme-binding protein with disulfide reductase activity, which acts in the early stages of complex IV assembly. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	12
41	Cavin3 released from caveolae interacts with BRCA1 to regulate the cellular stress response. ELife, 2021, 10, .	6.0	11
42	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
43	Applying Sodium Carbonate Extraction Mass Spectrometry to Investigate Defects in the Mitochondrial Respiratory Chain. Frontiers in Cell and Developmental Biology, 2022, 10, 786268.	3.7	9
44	Assembling the Outer Membrane. Science, 2010, 328, 831-832.	12.6	8
45	A patient with homozygous nonsense variants in two Leigh syndrome disease genes: Distinguishing a dual diagnosis from a hypomorphic proteinâ€truncating variant. Human Mutation, 2019, 40, 893-898.	2.5	8
46	Oligonucleotide correction of an intronic TIMMDC1 variant in cells of patients with severe neurodegenerative disorder. Npj Genomic Medicine, 2022, 7, 9.	3.8	8
47	Screening Strategies for TALEN-Mediated Gene Disruption. Methods in Molecular Biology, 2016, 1419, 231-252.	0.9	6
48	Abnormalities of mitochondrial dynamics and bioenergetics in neuronal cells from CDKL5 deficiency disorder. Neurobiology of Disease, 2021, 155, 105370.	4.4	6
49	Biallelic Variants in PYROXD2 Cause a Severe Infantile Metabolic Disorder Affecting Mitochondrial Function. International Journal of Molecular Sciences, 2022, 23, 986.	4.1	5