

# Martin S King

## List of Publications by Year in descending order

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33  
papers

2,876  
citations

331538

21  
h-index

330025

37  
g-index

41  
all docs

41  
docs citations

41  
times ranked

4751  
citing authors

#	ARTICLE	IF	CITATIONS
1	Itaconate is an anti-inflammatory metabolite that activates Nrf2 via alkylation of KEAP1. <i>Nature</i> , 2018, 556, 113-117.	13.7	1,115
2	The production of reactive oxygen species by complex I. <i>Biochemical Society Transactions</i> , 2008, 36, 976-980.	1.6	262
3	The Molecular Mechanism of Transport by the Mitochondrial ADP/ATP Carrier. <i>Cell</i> , 2019, 176, 435-447.e15.	13.5	221
4	Direct assignment of EPR spectra to structurally defined iron-sulfur clusters in complex I by double electron-electron resonance. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 1930-1935.	3.3	116
5	The transport mechanism of the mitochondrial ADP/ATP carrier. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2379-2393.	1.9	110
6	Production of Reactive Oxygen Species by Complex I (NADH:Ubiquinone Oxidoreductase) from <i>Escherichia coli</i> and Comparison to the Enzyme from Mitochondria. <i>Biochemistry</i> , 2008, 47, 3964-3971.	1.2	109
7	Recurrent De Novo Dominant Mutations in SLC25A4 Cause Severe Early-Onset Mitochondrial Disease and Loss of Mitochondrial DNA Copy Number. <i>American Journal of Human Genetics</i> , 2016, 99, 860-876.	2.6	93
8	Reduction of Hydrophilic Ubiquinones by the Flavin in Mitochondrial NADH:Ubiquinone Oxidoreductase (Complex I) and Production of Reactive Oxygen Species. <i>Biochemistry</i> , 2009, 48, 2053-2062.	1.2	89
9	The SLC25 Carrier Family: Important Transport Proteins in Mitochondrial Physiology and Pathology. <i>Physiology</i> , 2020, 35, 302-327.	1.6	77
10	Trends in Thermostability Provide Information on the Nature of Substrate, Inhibitor, and Lipid Interactions with Mitochondrial Carriers. <i>Journal of Biological Chemistry</i> , 2015, 290, 8206-8217.	1.6	67
11	Formation of a cytoplasmic salt bridge network in the matrix state is a fundamental step in the transport mechanism of the mitochondrial ADP/ATP carrier. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2016, 1857, 14-22.	0.5	55
12	Structure of subcomplex $\hat{I}^2$ of mammalian respiratory complex I leads to new supernumerary subunit assignments. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 12087-12092.	3.3	50
13	The mitochondrial dicarboxylate and $\alpha$ -oxoglutarate carriers do not transport glutathione. <i>FEBS Letters</i> , 2015, 589, 621-628.	1.3	49
14	Structural insight into mitochondrial $\hat{I}^2$ -barrel outer membrane protein biogenesis. <i>Nature Communications</i> , 2020, 11, 3290.	5.8	48
15	Screening of candidate substrates and coupling ions of transporters by thermostability shift assays. <i>ELife</i> , 2018, 7, .	2.8	45
16	How Detergent Impacts Membrane Proteins: Atomic-Level Views of Mitochondrial Carriers in Dodecylphosphocholine. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 933-938.	2.1	41
17	Calcium regulation of the human mitochondrial ATP-Mg/Pi carrier SLC25A24 uses a locking pin mechanism. <i>Scientific Reports</i> , 2017, 7, 45383.	1.6	33
18	Investigating the Properties of <i>Bacillus thuringiensis</i> Cry Proteins with Novel Loop Replacements Created Using Combinatorial Molecular Biology. <i>Applied and Environmental Microbiology</i> , 2008, 74, 3497-3511.	1.4	32

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19	Mitochondrial oxodicarboxylate carrier deficiency is associated with mitochondrial DNA depletion and spinal muscular atrophy-like disease. <i>Genetics in Medicine</i> , 2018, 20, 1224-1235.	1.1	31
20	Pathogenic mutations of the human mitochondrial citrate carrier SLC25A1 lead to impaired citrate export required for lipid, dolichol, ubiquinone and sterol synthesis. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2018, 1859, 1-7.	0.5	31
21	A ternary mechanism for NADH oxidation by positively charged electron acceptors, catalyzed at the flavin site in respiratory complex I. <i>FEBS Letters</i> , 2011, 585, 2318-2322.	1.3	26
22	Modelling the free energy profile of the mitochondrial ADP/ATP carrier. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2017, 1858, 906-914.	0.5	23
23	Membrane Protein Expression in <i>Lactococcus lactis</i> . <i>Methods in Enzymology</i> , 2015, 556, 77-97.	0.4	22
24	Expanding the phenotype of de novo SLC25A4-linked mitochondrial disease to include mild myopathy. <i>Neurology: Genetics</i> , 2018, 4, e256.	0.9	20
25	Mitochondrial ADP/ATP Carrier in Dodecylphosphocholine Binds Cardiolipins with Non-native Affinity. <i>Biophysical Journal</i> , 2017, 113, 2311-2315.	0.2	18
26	Substrate binding in the mitochondrial ADP/ATP carrier is a step-wise process guiding the structural changes in the transport cycle. <i>Nature Communications</i> , 2022, 13, .	5.8	17
27	Characterization of drug-induced human mitochondrial ADP/ATP carrier inhibition. <i>Theranostics</i> , 2021, 11, 5077-5091.	4.6	12
28	Concerns with yeast mitochondrial ADP/ATP carrier's integrity in DPC. <i>Nature Structural and Molecular Biology</i> , 2018, 25, 747-749.	3.6	11
29	Expression and Purification of Membrane Proteins in <i>Saccharomyces cerevisiae</i> . <i>Methods in Molecular Biology</i> , 2020, 2127, 47-61.	0.4	8
30	Key features of inhibitor binding to the human mitochondrial pyruvate carrier hetero-dimer. <i>Molecular Metabolism</i> , 2022, 60, 101469.	3.0	8
31	A Single Cysteine Residue in the Translocation Pathway of the Mitosomal ADP/ATP Carrier from <i>Cryptosporidium parvum</i> Confers a Broad Nucleotide Specificity. <i>International Journal of Molecular Sciences</i> , 2020, 21, 8971.	1.8	5
32	Thermostability Assays: a Generic and Versatile Tool for Studying the Functional and Structural Properties of Membrane Proteins in Detergents. <i>Methods in Molecular Biology</i> , 2020, 2168, 105-121.	0.4	4
33	Membrane Protein Production in <i>Lactococcus lactis</i> for Functional Studies. <i>Methods in Molecular Biology</i> , 2016, 1432, 79-101.	0.4	2