

# Kimberli J Kamer

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

3,936  
citations

304743

22  
h-index

552781

26  
g-index

28  
all docs

28  
docs citations

28  
times ranked

4539  
citing authors

#	ARTICLE	IF	CITATIONS
1	Directed evolution of APEX2 for electron microscopy and proximity labeling. <i>Nature Methods</i> , 2015, 12, 51-54.	19.0	1,014
2	EMRE Is an Essential Component of the Mitochondrial Calcium Uniporter Complex. <i>Science</i> , 2013, 342, 1379-1382.	12.6	537
3	MICU1 Controls Both the Threshold and Cooperative Activation of the Mitochondrial Ca <sup>2+</sup> Uniporter. <i>Cell Metabolism</i> , 2013, 17, 976-987.	16.2	397
4	MICU2, a Paralog of MICU1, Resides within the Mitochondrial Uniporter Complex to Regulate Calcium Handling. <i>PLoS ONE</i> , 2013, 8, e55785.	2.5	387
5	The molecular era of the mitochondrial calcium uniporter. <i>Nature Reviews Molecular Cell Biology</i> , 2015, 16, 545-553.	37.0	280
6	MICU1 and MICU2 play nonredundant roles in the regulation of the mitochondrial calcium uniporter. <i>EMBO Reports</i> , 2014, 15, 299-307.	4.5	193
7	Mitochondrial Permeability Uncouples Elevated Autophagy and Lifespan Extension. <i>Cell</i> , 2019, 177, 299-314.e16.	28.9	137
8	Reconstitution of the mitochondrial calcium uniporter in yeast. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 8985-8990.	7.1	136
9	High-affinity cooperative Ca <sup>2+</sup> binding by MICU1 and MICU2 serves as an "off switch" for the uniporter. <i>EMBO Reports</i> , 2017, 18, 1397-1411.	4.5	111
10	Intimate Interactions with Carbonyl Groups: Dipole or Dipole? <i>Journal of Organic Chemistry</i> , 2013, 78, 2099-2103.	3.2	91
11	Homozygous deletion in MICU1 presenting with fatigue and lethargy in childhood. <i>Neurology: Genetics</i> , 2016, 2, e59.	1.9	86
12	Comparative Analysis of Mitochondrial N-Termini from Mouse, Human, and Yeast. <i>Molecular and Cellular Proteomics</i> , 2017, 16, 512-523.	3.8	71
13	An $\pi$ - $\pi$ Interaction in Aspirin: Implications for Structure and Reactivity. <i>Journal of Organic Chemistry</i> , 2011, 76, 7933-7937.	3.2	64
14	MICU1 imparts the mitochondrial uniporter with the ability to discriminate between Ca <sup>2+</sup> and Mn <sup>2+</sup> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E7960-E7969.	7.1	59
15	Origin of the stability conferred upon collagen by fluorination. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2009, 19, 3859-3862.	2.2	49
16	A Stereoelectronic Effect in Prebiotic Nucleotide Synthesis. <i>ACS Chemical Biology</i> , 2010, 5, 655-657.	3.4	48
17	Cardiovascular homeostasis dependence on MICU2, a regulatory subunit of the mitochondrial calcium uniporter. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, E9096-E9104.	7.1	48
18	A Middle Eastern Founder Mutation Expands the Genotypic and Phenotypic Spectrum of Mitochondrial MICU1 Deficiency: A Report of 13 Patients. <i>JIMD Reports</i> , 2018, 43, 79-83.	1.5	46

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19	Development of the ACTH and corticosterone response to acute hypoxia in the neonatal rat. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2008, 295, R1195-R1203.	1.8	40
20	Crystal structure of MICU2 and comparison with MICU1 reveal insights into the uniporter gating mechanism. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 3546-3555.	7.1	39
21	An $\text{Na}^+$ interaction reduces the electrophilicity of the acceptor carbonyl group. <i>Chemical Communications</i> , 2013, 49, 8166.	4.1	32
22	The uniporter: From newly identified parts to function. <i>Biochemical and Biophysical Research Communications</i> , 2014, 449, 370-372.	2.1	26
23	Adrenocorticotrophic hormone and corticosterone responses to acute hypoxia in the neonatal rat: effects of body temperature maintenance. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2011, 300, R708-R715.	1.8	22
24	4- $\beta$ -ketoproline: An electrophilic proline analog for bioconjugation. <i>Biopolymers</i> , 2015, 104, 110-115.	2.4	11
25	A conserved interaction with the chromophore of fluorescent proteins. <i>Protein Science</i> , 2012, 21, 171-177.	7.6	10
26	MICU1 and MICU2 Operate Together to Regulate the Uniporter. <i>Biophysical Journal</i> , 2015, 108, 567a.	0.5	1