

Zachary Campbell

List of Publications by Citations

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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.

41 papers	1,004 citations	18 h-index	31 g-index
50 ext. papers	1,346 ext. citations	8.3 avg, IF	4.56 L-index

#	Paper	IF	Citations
41	A conserved PUF-Ago-eEF1A complex attenuates translation elongation. <i>Nature Structural and Molecular Biology</i> , 2012 , 19, 176-83	17.6	107
40	Cooperativity in RNA-protein interactions: global analysis of RNA binding specificity. <i>Cell Reports</i> , 2012 , 1, 570-81	10.6	86
39	Inhibition of Poly(A)-binding protein with a synthetic RNA mimic reduces pain sensitization in mice. <i>Nature Communications</i> , 2018 , 9, 10	17.4	78
38	Crystal structure of the bacterial luciferase/flavin complex provides insight into the function of the beta subunit. <i>Biochemistry</i> , 2009 , 48, 6085-94	3.2	74
37	A protein-RNA specificity code enables targeted activation of an endogenous human transcript. <i>Nature Structural and Molecular Biology</i> , 2014 , 21, 732-8	17.6	62
36	Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. <i>Journal of Neuroscience</i> , 2019 , 39, 393-411	6.6	57
35	Drosophila Nanos acts as a molecular clamp that modulates the RNA-binding and repression activities of Pumilio. <i>ELife</i> , 2016 , 5,	8.9	47
34	RNA regulatory networks diversified through curvature of the PUF protein scaffold. <i>Nature Communications</i> , 2015 , 6, 8213	17.4	44
33	Patterns and plasticity in RNA-protein interactions enable recruitment of multiple proteins through a single site. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012 , 109, 6054-9	11.5	36
32	Differences between Dorsal Root and Trigeminal Ganglion Nociceptors in Mice Revealed by Translational Profiling. <i>Journal of Neuroscience</i> , 2019 , 39, 6829-6847	6.6	35
31	Probing RNA-protein networks: biochemistry meets genomics. <i>Trends in Biochemical Sciences</i> , 2015 , 40, 157-64	10.3	35
30	Fre Is the Major Flavin Reductase Supporting Bioluminescence from <i>Vibrio harveyi</i> Luciferase in <i>Escherichia coli</i> . <i>Journal of Biological Chemistry</i> , 2009 , 284, 8322-8	5.4	34
29	Identification of a conserved interface between PUF and CPEB proteins. <i>Journal of Biological Chemistry</i> , 2012 , 287, 18854-62	5.4	33
28	Activation of the integrated stress response in nociceptors drives methylglyoxal-induced pain. <i>Pain</i> , 2019 , 160, 160-171	8	25
27	Shape-morphing living composites. <i>Science Advances</i> , 2020 , 6, eaax8582	14.3	23
26	Stimuli-responsive engineered living materials. <i>Soft Matter</i> , 2021 , 17, 785-809	3.6	22
25	Type I Interferons Act Directly on Nociceptors to Produce Pain Sensitization: Implications for Viral Infection-Induced Pain. <i>Journal of Neuroscience</i> , 2020 , 40, 3517-3532	6.6	21

24	Adult mouse sensory neurons on microelectrode arrays exhibit increased spontaneous and stimulus-evoked activity in the presence of interleukin-6. <i>Journal of Neurophysiology</i> , 2018 , 120, 1374-1385	3.2	19
23	Analysis of the bacterial luciferase mobile loop by replica-exchange molecular dynamics. <i>Biophysical Journal</i> , 2010 , 99, 4012-9	2.9	18
22	Architecture and dynamics of overlapped RNA regulatory networks. <i>Rna</i> , 2017 , 23, 1636-1647	5.8	17
21	Integrated analysis of RNA-binding protein complexes using in vitro selection and high-throughput sequencing and sequence specificity landscapes (SEQRS). <i>Methods</i> , 2017 , 118-119, 171-181	4.6	17
20	Two lysine residues in the bacterial luciferase mobile loop stabilize reaction intermediates. <i>Journal of Biological Chemistry</i> , 2009 , 284, 32827-34	5.4	17
19	Global pairwise RNA interaction landscapes reveal core features of protein recognition. <i>Nature Communications</i> , 2018 , 9, 2511	17.4	16
18	Biochemical characterization of the <i>Caenorhabditis elegans</i> FBF.CPB-1 translational regulation complex identifies conserved protein interaction hotspots. <i>Journal of Molecular Biology</i> , 2013 , 425, 725-37	6.5	11
17	Engineering a conserved RNA regulatory protein repurposes its biological function. <i>ELife</i> , 2019 , 8,	8.9	11
16	A protein-protein interaction platform involved in recruitment of GLD-3 to the FBF.fem-3 mRNA complex. <i>Journal of Molecular Biology</i> , 2013 , 425, 738-54	6.5	10
15	4D Printing of Engineered Living Materials. <i>Advanced Functional Materials</i> , 2106843	15.6	9
14	RNA-binding proteins as targets for pain therapeutics. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2018 , 4, 2-7	4	6
13	A crystal structure of a collaborative RNA regulatory complex reveals mechanisms to refine target specificity. <i>ELife</i> , 2019 , 8,	8.9	6
12	Emerging neurotechnology for antinociceptive mechanisms and therapeutics discovery. <i>Biosensors and Bioelectronics</i> , 2019 , 126, 679-689	11.8	6
11	RNA control in pain: Blame it on the messenger. <i>Wiley Interdisciplinary Reviews RNA</i> , 2019 , 10, e1546	9.3	5
10	Conserved Expression of Nav1.7 and Nav1.8 Contribute to the Spontaneous and Thermally Evoked Excitability in IL-6 and NGF-Sensitized Adult Dorsal Root Ganglion Neurons In Vitro. <i>Bioengineering</i> , 2020 , 7,	5.3	3
9	Principles of mRNA control by human PUM proteins elucidated from multimodal experiments and integrative data analysis. <i>Rna</i> , 2020 , 26, 1680-1703	5.8	3
8	Intercellular Arc Signaling Regulates Vasodilation. <i>SSRN Electronic Journal</i> ,	1	2
7	Intercellular Arc Signaling Regulates Vasodilation. <i>Journal of Neuroscience</i> , 2021 , 41, 7712-7726	6.6	2

6	A Highly Selective MNK Inhibitor Rescues Deficits Associated with Fragile X Syndrome in Mice. <i>Neurotherapeutics</i> , 2021 , 18, 624-639	6.4	2
5	A peptide encoded within a 5' untranslated region promotes pain sensitization in mice. <i>Pain</i> , 2021 , 162, 1864-1875	8	2
4	Functionally distinct roles for eEF2K in the control of ribosome availability and p-body abundance. <i>Nature Communications</i> , 2021 , 12, 6789	17.4	1
3	Type I interferons act directly on nociceptors to produce pain sensitization: Implications for viral infection-induced pain		1
2	Molecular entrapment by RNA: an emerging tool for disrupting protein-RNA interactions. <i>RNA Biology</i> , 2020 , 17, 417-424	4.8	0
1	A role for translational regulation by S6 kinase and a downstream target in inflammatory pain. <i>British Journal of Pharmacology</i> , 2021 , 178, 4675-4690	8.6	0