Zachary Campbell

List of Publications by Year
in descending order

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44	1,623	304743 22	330143 37
papers	citations	h-index	g-index

50	50	50	2022
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Inhibition of Poly(A)-binding protein with a synthetic RNA mimic reduces pain sensitization in mice. Nature Communications, 2018, 9, 10.	12.8	135
2	A conserved PUFâ€“Agoâ€“eEF1A complex attenuates translation elongation. Nature Structural and Molecular Biology, 2012, 19, 176-183.	8.2	128
3	Cooperativity in RNA-Protein Interactions: Global Analysis of RNA Binding Specificity. Cell Reports, 2012, 1, 570-581.	6.4	106
4	Nociceptor Translational Profiling Reveals the Ragulator-Rag GTPase Complex as a Critical Generator of Neuropathic Pain. Journal of Neuroscience, 2019, 39, 393-411.	3.6	95
5	Crystal Structure of the Bacterial Luciferase/Flavin Complex Provides Insight into the Function of the Î² Subunit. Biochemistry, 2009, 48, 6085-6094.	2.5	92
6	A protein-RNA specificity code enables targeted activation of an endogenous human transcript. Nature Structural and Molecular Biology, 2014, 21, 732-738.	8.2	74
7	Differences between Dorsal Root and Trigeminal Ganglion Nociceptors in Mice Revealed by Translational Profiling. Journal of Neuroscience, 2019, 39, 6829-6847.	3.6	66
8	Drosophila Nanos acts as a molecular clamp that modulates the RNA-binding and repression activities of Pumilio. ELife, 2016, 5, .	6.0	66
9	Stimuli-responsive engineered living materials. Soft Matter, 2021, 17, 785-809.	2.7	64
10	Type I Interferons Act Directly on Nociceptors to Produce Pain Sensitization: Implications for Viral Infection-Induced Pain. Journal of Neuroscience, 2020, 40, 3517-3532.	3.6	62
11	RNA regulatory networks diversified through curvature of the PUF protein scaffold. Nature Communications, 2015, 6, 8213.	12.8	56
12	Shape-morphing living composites. Science Advances, 2020, 6, eaax8582.	10.3	53
13	Activation of the integrated stress response in nociceptors drives methylglyoxal-induced pain. Pain, 2019, 160, 160-171.	4.2	45
14	Fre Is the Major Flavin Reductase Supporting Bioluminescence from Vibrio harveyi Luciferase in Escherichia coli. Journal of Biological Chemistry, 2009, 284, 8322-8328.	3.4	44
15	Patterns and plasticity in RNA-protein interactions enable recruitment of multiple proteins through a single site. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 6054-6059.	7.1	43
16	Identification of a Conserved Interface between PUF and CPEB Proteins. Journal of Biological Chemistry, 2012, 287, 18854-18862.	3.4	40
17	Probing RNAâ€“protein networks: biochemistry meets genomics. Trends in Biochemical Sciences, 2015, 40, 157-164.	7.5	39
18	4D Printing of Engineered Living Materials. Advanced Functional Materials, 2022, 32, 2106843.	14.9	38

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19	Architecture and dynamics of overlapped RNA regulatory networks. Rna, 2017, 23, 1636-1647.	3.5	32
20	Adult mouse sensory neurons on microelectrode arrays exhibit increased spontaneous and stimulus-evoked activity in the presence of interleukin-6. Journal of Neurophysiology, 2018, 120, 1374-1385.	1.8	32
21	Global pairwise RNA interaction landscapes reveal core features of protein recognition. Nature Communications, 2018, 9, 2511.	12.8	29
22	Integrated analysis of RNA-binding protein complexes using in vitro selection and high-throughput sequencing and sequence specificity landscapes (SEQRS). Methods, 2017, 118-119, 171-181.	3.8	24
23	Two Lysine Residues in the Bacterial Luciferase Mobile Loop Stabilize Reaction Intermediates. Journal of Biological Chemistry, 2009, 284, 32827-32834.	3.4	21
24	A crystal structure of a collaborative RNA regulatory complex reveals mechanisms to refine target specificity. ELife, 2019, 8, .	6.0	21
25	Analysis of the Bacterial Luciferase Mobile Loop by Replica-Exchange Molecular Dynamics. Biophysical Journal, 2010, 99, 4012-4019.	0.5	20
26	Emerging neurotechnology for antinoceptive mechanisms and therapeutics discovery. Biosensors and Bioelectronics, 2019, 126, 679-689.	10.1	19
27	Biochemical Characterization of the Caenorhabditis elegans FBFâ‹…CPB-1 Translational Regulation Complex Identifies Conserved Protein Interaction Hotspots. Journal of Molecular Biology, 2013, 425, 725-737.	4.2	18
28	Functionally distinct roles for eEF2K in the control of ribosome availability and p-body abundance. Nature Communications, 2021, 12, 6789.	12.8	18
29	A Proteinâ‹…Protein Interaction Platform Involved in Recruitment of GLD-3 to the FBFâ‹…fem-3 mRNA Complex. Journal of Molecular Biology, 2013, 425, 738-754.	4.2	16
30	Principles of mRNA control by human PUM proteins elucidated from multimodal experiments and integrative data analysis. Rna, 2020, 26, 1680-1703.	3.5	14
31	RNA-binding proteins as targets for pain therapeutics. Neurobiology of Pain (Cambridge, Mass), 2018, 4, 2-7.	2.5	13
32	Engineering a conserved RNA regulatory protein repurposes its biological function in vivo. ELife, 2019, 8, .	6.0	13
33	RNA control in pain: Blame it on the messenger. Wiley Interdisciplinary Reviews RNA, 2019, 10, e1546.	6.4	12
34	Intercellular Arc Signaling Regulates Vasodilation. Journal of Neuroscience, 2021, 41, 7712-7726.	3.6	12
35	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. Bioengineering, 2020, 7, 44.	3.5	9
36	A Highly Selective MNK Inhibitor Rescues Deficits Associated with Fragile X Syndrome in Mice. Neurotherapeutics, 2021, 18, 624-639.	4.4	9

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37	The space between notes: emerging roles for translationally silent ribosomes. Trends in Biochemical Sciences, 2022, 47, 477-491.	7.5	9
38	A peptide encoded within a 5â€² untranslated region promotes pain sensitization in mice. Pain, 2021, 162, 1864-1875.	4.2	8
39	Global analyses of <scp>mRNA</scp> expression in human sensory neurons reveal <scp>eIF5A</scp> as a conserved target for inflammatory pain. FASEB Journal, 2022, 36, .	0.5	6
40	A role for translational regulation by S6 kinase and a downstream target in inflammatory pain. British Journal of Pharmacology, 2021, 178, 4675-4690.	5.4	5
41	Bipartite interaction sites differentially modulate RNA-binding affinity of a protein complex essential for germline stem cell self-renewal. Nucleic Acids Research, 2022, 50, 536-548.	14.5	5
42	A compendium of validated pain genes. WIREs Mechanisms of Disease, 2022, 14, .	3.3	5
43	Molecular entrapment by RNA: an emerging tool for disrupting proteinâ€“RNA interactions in vivo. RNA Biology, 2020, 17, 417-424.	3.1	4
44	Intercellular Arc Signaling Regulates Vasodilation. SSRN Electronic Journal, 0, , .	0.4	2