

Koutarou D Kimura

List of Publications by Year in descending order

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39
papers

4,241
citations

430874

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361022

35
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47
all docs

47
docs citations

47
times ranked

3848
citing authors

#	ARTICLE	IF	CITATIONS
1	<i>daf-2</i> , an Insulin Receptor-Like Gene That Regulates Longevity and Diapause in <i>Caenorhabditis elegans</i> . <i>Science</i> , 1997, 277, 942-946.	12.6	2,072
2	Regulation of <i>C. elegans</i> Life-Span by Insulinlike Signaling in the Nervous System. <i>Science</i> , 2000, 290, 147-150.	12.6	630
3	Real-time volumetric microscopy of in vivo dynamics and large-scale samples with SCAPE 2.0. <i>Nature Methods</i> , 2019, 16, 1054-1062.	19.0	222
4	The <i>C. elegans</i> Thermosensory Neuron AFD Responds to Warming. <i>Current Biology</i> , 2004, 14, 1291-1295.	3.9	192
5	Temperature Sensing by an Olfactory Neuron in a Circuit Controlling Behavior of <i>C. elegans</i> . <i>Science</i> , 2008, 320, 803-807.	12.6	180
6	Genetic Control of Temperature Preference in the Nematode <i>Caenorhabditis elegans</i> . <i>Genetics</i> , 2005, 169, 1437-1450.	2.9	130
7	Insulin-like signaling and the neural circuit for integrative behavior in <i>C. elegans</i> . <i>Genes and Development</i> , 2006, 20, 2955-2960.	5.9	123
8	Diverse regulation of sensory signaling by <i>C. elegans</i> nPKC-epsilon/eta TTX-4. <i>EMBO Journal</i> , 2005, 24, 2127-2137.	7.8	92
9	A Target of Phosphatidylinositol 3,4,5-Trisphosphate with a Zinc Finger Motif Similar to that of the ADP-Ribosylation-Factor GTPase-Activating Protein and Two Pleckstrin Homology Domains. <i>FEBS Journal</i> , 1997, 245, 512-519.	0.2	80
10	Enhancement of Odor Avoidance Regulated by Dopamine Signaling in <i>Caenorhabditis elegans</i> . <i>Journal of Neuroscience</i> , 2010, 30, 16365-16375.	3.6	70
11	The <i>C. elegans</i> DAF-2 Insulin-Like Receptor is Abundantly Expressed in the Nervous System and Regulated by Nutritional Status. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 2011, 76, 113-120.	1.1	53
12	3DeeCellTracker, a deep learning-based pipeline for segmenting and tracking cells in 3D time lapse images. <i>ELife</i> , 2021, 10, .	6.0	53
13	Calcium dynamics regulating the timing of decision-making in <i>C. elegans</i> . <i>ELife</i> , 2017, 6, .	6.0	50
14	Deep learning-assisted comparative analysis of animal trajectories with DeepHL. <i>Nature Communications</i> , 2020, 11, 5316.	12.8	36
15	FLR-2, the glycoprotein hormone alpha subunit, is involved in the neural control of intestinal functions in <i>Caenorhabditis elegans</i> . <i>Genes To Cells</i> , 2009, 14, 1141-1154.	1.2	31
16	Slow Ca ²⁺ dynamics in pharyngeal muscles in <i>Caenorhabditis elegans</i> during fast pumping. <i>EMBO Reports</i> , 2004, 5, 521-526.	4.5	30
17	Modulation of different behavioral components by neuropeptide and dopamine signalings in non-associative odor learning of <i>Caenorhabditis elegans</i> . <i>Neuroscience Research</i> , 2015, 99, 22-33.	1.9	26
18	Phosphatidylinositol-3 Kinase in Fission Yeast: A Possible Role in Stress Responses. <i>Bioscience, Biotechnology and Biochemistry</i> , 1995, 59, 678-682.	1.3	23

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19	In actio optophysiological analyses reveal functional diversification of dopaminergic neurons in the nematode <i>C. elegans</i> . <i>Scientific Reports</i> , 2016, 6, 26297.	3.3	23
20	A simple optogenetic system for behavioral analysis of freely moving small animals. <i>Neuroscience Research</i> , 2013, 75, 65-68.	1.9	17
21	Synthesis of 1-O-alkyl- and 1-O-acyl-myo-inositol 3, 4, 5-trisphosphates as novel analogues of phosphatidyl-myo-inositol 3, 4, 5-trisphosphate. <i>Bioorganic and Medicinal Chemistry Letters</i> , 1995, 5, 2263-2266.	2.2	14
22	FLR-4, a Novel Serine/Threonine Protein Kinase, Regulates Defecation Rhythm in <i>Caenorhabditis elegans</i> . <i>Molecular Biology of the Cell</i> , 2005, 16, 1355-1365.	2.1	13
23	A novel and conserved protein AHO-3 is required for thermotactic plasticity associated with feeding states in <i>Caenorhabditis elegans</i> . <i>Genes To Cells</i> , 2012, 17, 365-386.	1.2	12
24	Ultradian rhythm in the intestine of <i>Caenorhabditis elegans</i> is controlled by the C-terminal region of the FLR-1 ion channel and the hydrophobic domain of the FLR-4 protein kinase. <i>Genes To Cells</i> , 2011, 16, 565-575.	1.2	9
25	Efficient learning algorithm for sparse subsequence pattern-based classification and applications to comparative animal trajectory data analysis. <i>Advanced Robotics</i> , 2019, 33, 134-152.	1.8	9
26	STEFTR: A Hybrid Versatile Method for State Estimation and Feature Extraction From the Trajectory of Animal Behavior. <i>Frontiers in Neuroscience</i> , 2019, 13, 626.	2.8	8
27	Neuronal, mathematical, and molecular bases of perceptual decision-making in <i>C. elegans</i> . <i>Neuroscience Research</i> , 2019, 140, 3-13.	1.9	8
28	Density dependent elevation of phosphatidylinositol-3 kinase level in rat 3Y1 cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 1998, 1401, 113-120.	4.1	6
29	Measuring Spatiotemporal Dynamics of Odor Gradient for Small Animals by Gas Chromatography. <i>Bio-protocol</i> , 2018, 8, e2797.	0.4	6
30	Cross-species behavior analysis with attention-based domain-adversarial deep neural networks. <i>Nature Communications</i> , 2021, 12, 5519.	12.8	5
31	Calcium Imaging of Neuronal Activity under Gradually Changing Odor Stimulation in <i>Caenorhabditis elegans</i> . <i>Bio-protocol</i> , 2021, 11, e3866.	0.4	2
32	Dominant negative effect of the truncated p110 subunit of phosphatidylinositol-3 kinase. <i>IUBMB Life</i> , 1996, 39, 721-728.	3.4	1
33	A Novel Differentiation Factor for PC12 Cells from Culture Supernatant of Mouse Hepatocyte Cell Line MLE-15A2. <i>Bioscience, Biotechnology and Biochemistry</i> , 1996, 60, 1339-1345.	1.3	1
34	Finding Discriminative Animal Behaviors from Sequential Bio-Logging Trajectory Data. <i>Lecture Notes in Computer Science</i> , 2018, , 125-138.	1.3	1
35	How do we know how the brain works?" Analyzing whole brain activities with classic mathematical and machine learning methods. <i>Japanese Journal of Applied Physics</i> , 2020, 59, 030501.	1.5	1
36	From Connectome to Function: Using Optogenetics to Shed Light on the <i>Caenorhabditis elegans</i> Nervous System. , 0, , 37-54.		0

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37	Robotic Microscope System for Studying the Basic Principles of Brain Function. , 2018, , .		0
38	Neural Mechanisms of Animal Navigation. Lecture Notes in Computer Science, 2018, , 65-81.	1.3	0
39	Tracking Moving Cells in 3D Time Lapse Images Using 3DeeCellTracker. Bio-protocol, 2022, 12, e4319.	0.4	0