

Kenneth C Catania

List of Publications by Year in descending order

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86
papers

3,554
citations

117625

34
h-index

149698

56
g-index

86
all docs

86
docs citations

86
times ranked

2789
citing authors

#	ARTICLE	IF	CITATIONS
1	Deactivation and reactivation of somatosensory cortex after dorsal spinal cord injury. <i>Nature</i> , 1997, 386, 495-498.	27.8	194
2	Mammalian Brains Are Made of These: A Dataset of the Numbers and Densities of Neuronal and Nonneuronal Cells in the Brain of Glires, Primates, Scandentia, Eulipotyphlans, Afrotherians and Artiodactyls, and Their Relationship with Body Mass. <i>Brain, Behavior and Evolution</i> , 2015, 86, 145-163.	1.7	176
3	Anatomic correlates of the face and oral cavity representations in the somatosensory cortical area 3b of monkeys. <i>Journal of Comparative Neurology</i> , 2001, 429, 455-468.	1.6	126
4	Organization of somatosensory cortex in the laboratory rat (<i>Rattus norvegicus</i>): Evidence for two lateral areas joined at the representation of the teeth. <i>Journal of Comparative Neurology</i> , 2003, 467, 105-118.	1.6	126
5	Organization of the somatosensory cortex of the star-nosed mole. <i>Journal of Comparative Neurology</i> , 1995, 351, 549-567.	1.6	125
6	Somatosensory fovea in the star-nosed mole: Behavioral use of the star in relation to innervation patterns and cortical representation. <i>Journal of Comparative Neurology</i> , 1997, 387, 215-233.	1.6	112
7	Structure, innervation and response properties of integumentary sensory organs in crocodilians. <i>Journal of Experimental Biology</i> , 2012, 215, 4217-4230.	1.7	109
8	Somatosensory cortex dominated by the representation of teeth in the naked mole-rat brain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 5692-5697.	7.1	108
9	Asymptotic prey profitability drives star-nosed moles to the foraging speed limit. <i>Nature</i> , 2005, 433, 519-522.	27.8	108
10	Updated Neuronal Scaling Rules for the Brains of Glires (Rodents/Lagomorphs). <i>Brain, Behavior and Evolution</i> , 2011, 78, 302-314.	1.7	107
11	Development of lateral line organs in the axolotl. <i>Journal of Comparative Neurology</i> , 1994, 340, 480-514.	1.6	101
12	Stereo and serial sniffing guide navigation to an odour source in a mammal. <i>Nature Communications</i> , 2013, 4, 1441.	12.8	97
13	Tentacled snakes turn C-starts to their advantage and predict future prey behavior. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 11183-11187.	7.1	93
14	Cortical organization in shrews: Evidence from five species. <i>Journal of Comparative Neurology</i> , 1999, 410, 55-72.	1.6	87
15	Cellular scaling rules of insectivore brains. <i>Frontiers in Neuroanatomy</i> , 2009, 3, 8.	1.7	82
16	Touching on somatosensory specializations in mammals. <i>Current Opinion in Neurobiology</i> , 2006, 16, 467-473.	4.2	79
17	The shocking predatory strike of the electric eel. <i>Science</i> , 2014, 346, 1231-1234.	12.6	77
18	Water shrews detect movement, shape, and smell to find prey underwater. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 571-576.	7.1	70

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19	Underwater 'sniffing' by semi-aquatic mammals. <i>Nature</i> , 2006, 444, 1024-1025.	27.8	68
20	Central visual system of the naked mole-rat (<i>Heterocephalus glaber</i>). <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 205-212.	2.0	67
21	Leaping eels electrify threats, supporting Humboldt's account of a battle with horses. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, 6979-6984.	7.1	66
22	Evolution of sensory specializations in insectivores. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2005, 287A, 1038-1050.	2.0	64
23	Tactile Foveation in the Star-Nosed Mole. <i>Brain, Behavior and Evolution</i> , 2004, 63, 1-12.	1.7	60
24	Epidermal Sensory Organs of Moles, Shrew Moles, and Desmans: A Study of the Family Talpidae with Comments on the Function and Evolution of Eimer's Organ. <i>Brain, Behavior and Evolution</i> , 2000, 56, 146-174.	1.7	55
25	Cortical Organization in Insectivora: The Parallel Evolution of the Sensory Periphery and the Brain. <i>Brain, Behavior and Evolution</i> , 2000, 55, 311-321.	1.7	53
26	Structure and innervation of the sensory organs on the snout of the star-nosed mole. <i>Journal of Comparative Neurology</i> , 1995, 351, 536-548.	1.6	52
27	Worm Grunting, Fiddling, and Charming—Humans Unknowingly Mimic a Predator to Harvest Bait. <i>PLoS ONE</i> , 2008, 3, e3472.	2.5	49
28	Heterochrony and developmental modularity of cranial osteogenesis in lipotyphlan mammals. <i>EvoDevo</i> , 2011, 2, 21.	3.2	45
29	Organization of somatosensory cortical areas in the naked mole-rat (<i>Heterocephalus glaber</i>). <i>Journal of Comparative Neurology</i> , 2006, 495, 434-452.	1.6	44
30	The Star-Nosed Mole Reveals Clues to the Molecular Basis of Mammalian Touch. <i>PLoS ONE</i> , 2013, 8, e55001.	2.5	41
31	The sense of touch in the star-nosed mole: from mechanoreceptors to the brain. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2011, 366, 3016-3025.	4.0	40
32	Organization of sensory cortex in the East African hedgehog (<i>Atelerix albiventris</i>). <i>Journal of Comparative Neurology</i> , 2000, 421, 256-274.	1.6	37
33	Plasticity of the cortical dentition representation after tooth extraction in naked mole-rats. <i>Journal of Comparative Neurology</i> , 2005, 485, 64-74.	1.6	37
34	Electric eels use high-voltage to track fast-moving prey. <i>Nature Communications</i> , 2015, 6, 8638.	12.8	37
35	Born Knowing: Tentacled Snakes Innately Predict Future Prey Behavior. <i>PLoS ONE</i> , 2010, 5, e10953.	2.5	36
36	Nose stars and brain stripes. <i>Nature</i> , 1993, 364, 493-493.	27.8	32

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37	A comparison of the Eimer's organs of three north american moles: The hairy-tailed mole (<i>Parascalops</i>) Tj ETQq1 1 <i>Journal of Comparative Neurology</i> , 1995, 354, 150-160.	0.784314 1.6	rgBT /Ov 28
38	Identification of retinal neurons in a regressive rodent eye (the naked mole-rat). <i>Visual Neuroscience</i> , 2004, 21, 107-117.	1.0	27
39	Evolution of brains and behavior for optimal foraging: A tale of two predators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 10701-10708.	7.1	27
40	Electric Eels Concentrate Their Electric Field to Induce Involuntary Fatigue in Struggling Prey. <i>Current Biology</i> , 2015, 25, 2889-2898.	3.9	27
41	Early development of a somatosensory fovea: a head start in the cortical space race?. <i>Nature Neuroscience</i> , 2001, 4, 353-354.	14.8	26
42	Organization of somatosensory cortex and distribution of corticospinal neurons in the eastern mole (<i>Scalopus aquaticus</i>). <i>Journal of Comparative Neurology</i> , 1997, 378, 337-353.	1.6	25
43	Ultrastructure of the Eimer's organ of the star-nosed mole. , 1996, 365, 343-354.		23
44	Cortical, callosal, and thalamic connections from primary somatosensory cortex in the naked mole-rat (<i>Heterocephalus glaber</i>), with special emphasis on the connectivity of the incisor representation. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 626-645.	2.0	23
45	Receptive Fields and Response Properties of Neurons in the Star-Nosed Mole's Somatosensory Fovea. <i>Journal of Neurophysiology</i> , 2002, 87, 2602-2611.	1.8	22
46	Greater addition of neurons to the olfactory bulb than to the cerebral cortex of eulipotyphlans but not rodents, afrotherians or primates. <i>Frontiers in Neuroanatomy</i> , 2014, 8, 23.	1.7	22
47	Magnified cortex in star-nosed moles. <i>Nature</i> , 1995, 375, 453-454.	27.8	21
48	Cortical organization in moles: evidence of new areas and a specialized S2. <i>Somatosensory & Motor Research</i> , 2000, 17, 335-347.	0.9	21
49	Somatosensation in the superior colliculus of the star-nosed mole. <i>Journal of Comparative Neurology</i> , 2003, 464, 415-425.	1.6	21
50	Response properties of primary afferents supplying Eimer's organ. <i>Journal of Experimental Biology</i> , 2007, 210, 765-780.	1.7	21
51	Barrels, stripes, and fingerprints in the brain - implications for theories of cortical organization. <i>Journal of Neurocytology</i> , 2002, 31, 347-358.	1.5	20
52	Compartmentation of the Cerebellar Cortex in the Naked Mole-Rat (<i>Heterocephalus glaber</i>). <i>Cerebellum</i> , 2011, 10, 435-448.	2.5	19
53	A Star in the Brainstem Reveals the First Step of Cortical Magnification. <i>PLoS ONE</i> , 2011, 6, e22406.	2.5	19
54	Organization of the somatosensory cortex in elephant shrews (<i>E. edwardii</i>). <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 859-866.	2.0	18

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55	Organization of somatosensory cortex in the Northern grasshopper mouse (<i>Onychomys</i>) Tj ETQq1 1 0.784314 rgBT/Overlock 10	1.6	18
56	The mole nose instructs the brain. <i>Somatosensory & Motor Research</i> , 1997, 14, 56-58.	0.9	17
57	Compartmentation of the Cerebellar Cortex: Adaptation to Lifestyle in the Star-Nosed Mole <i>Condylura cristata</i> . <i>Cerebellum</i> , 2015, 14, 106-118.	2.5	17
58	The Astonishing Behavior of Electric Eels. <i>Frontiers in Integrative Neuroscience</i> , 2019, 13, 23.	2.1	17
59	Neuroanatomical evidence for segregation of nerve fibers conveying light touch and pain sensation in Eimer's organ of the mole. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2006, 103, 9339-9344.	7.1	16
60	Tactile sensing in specialized predators – from behavior to the brain. <i>Current Opinion in Neurobiology</i> , 2012, 22, 251-258.	4.2	16
61	An Optimized Biological Taser: Electric Eels Remotely Induce or Arrest Movement in Nearby Prey. <i>Brain, Behavior and Evolution</i> , 2015, 86, 38-47.	1.7	16
62	Organization of the spinal trigeminal nucleus in star-nosed moles. <i>Journal of Comparative Neurology</i> , 2014, 522, 3335-3350.	1.6	15
63	Central Projections of Trigeminal Afferents Innervating the Face in Naked Mole-Rats (<i>Heterocephalus glaber</i>). <i>Anatomical Record</i> , 2008, 291, 988-998.	1.4	11
64	Brain Mass and Cranial Nerve Size in Shrews and Moles. <i>Scientific Reports</i> , 2014, 4, 6241.	3.3	11
65	Somatosensory organ topography across the star of the star-nosed mole (<i>Condylura cristata</i>). <i>Journal of Comparative Neurology</i> , 2016, 524, 917-929.	1.6	11
66	Power Transfer to a Human during an Electric Eel's Shocking Leap. <i>Current Biology</i> , 2017, 27, 2887-2891.e2.	3.9	11
67	Barrelettes without Barrels in the American Water Shrew. <i>PLoS ONE</i> , 2013, 8, e65975.	2.5	10
68	How Not to Be Turned into a Zombie. <i>Brain, Behavior and Evolution</i> , 2018, 92, 32-46.	1.7	10
69	Electrical Potential of Leaping Eels. <i>Brain, Behavior and Evolution</i> , 2017, 89, 262-273.	1.7	10
70	Star-nosed moles. <i>Current Biology</i> , 2005, 15, R863-R864.	3.9	9
71	Adaptive Neural Organization of Naked Mole-Rat Somatosensation (and Those Similarly Challenged). , 2007, , 175-193.		9
72	All in the Family – Touch Versus Olfaction in Moles. <i>Anatomical Record</i> , 2020, 303, 65-76.	1.4	8

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73	Identification of retinal neurons in a regressive rodent eye (the naked mole-rat). <i>Visual Neuroscience</i> , 2004, 21, 107-117.	1.0	8
74	Fine structure of Eimer's organ in the coast mole (<i>Scapanus orarius</i>). <i>Anatomical Record</i> , 2007, 290, 437-448.	1.4	7
75	The brain and behavior of the tentacled snake. <i>Annals of the New York Academy of Sciences</i> , 2011, 1225, 83-89.	3.8	7
76	Chemoarchitecture of Layer 4 Isocortex in the American Water Shrew (<i>Sorex palustris</i>). <i>Brain, Behavior and Evolution</i> , 2011, 78, 261-271.	1.7	6
77	The neurobiology and behavior of the American water shrew (<i>Sorex palustris</i>). <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2013, 199, 545-554.	1.6	5
78	Symposium Overview. <i>Annals of the New York Academy of Sciences</i> , 2009, 1170, 407-412.	3.8	4
79	Getting the Most Out of Your Zombie: Abdominal Sensors and Neural Manipulations Help Jewel Wasps Find the Roach's Weak Spot. <i>Brain, Behavior and Evolution</i> , 2020, 95, 181-202.	1.7	4
80	Cutaneous and periodontal inputs to the cerebellum of the naked mole-rat (<i>Heterocephalus glaber</i>). <i>Frontiers in Neuroanatomy</i> , 2013, 7, 39.	1.7	3
81	Behavioral pieces of neuroethological puzzles. <i>Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology</i> , 2017, 203, 677-689.	1.6	3
82	Comparative Studies of Somatosensory Systems and Active Sensing. , 2015, , 7-28.		3
83	Electric Eels Wield a Functional Venom Analogue. <i>Toxins</i> , 2021, 13, 48.	3.4	1
84	Anatomic correlates of the face and oral cavity representations in the somatosensory cortical area 3b of monkeys. , 2001, 429, 455.		1
85	Les superpouvoirs de l'anguille Électrique. <i>Pourlascience Fr</i> , 2020, N° 508 - février, 36-43.	0.0	0
86	La stupéfiante attaque de la guêpe Émeraude. <i>Pourlascience Fr</i> , 2021, N° 521 - mars, 44-51.	0.0	0