Richard D Mooney

List of Publications by Year
in descending order

74 papers	5,854 citations	61984 43 h-index	85541 71 g-index
83 all docs	83 docs citations	83 times ranked	4062 citing authors

#	Article	IF	Citations
1	A synaptic and circuit basis for corollary discharge in the auditory cortex. Nature, 2014, 513, 189-194.	27.8	487
2	Rapid spine stabilization and synaptic enhancement at the onset of behavioural learning. Nature, 2010, 463, 948-952.	27.8	264
3	Thalamic Relay of Spontaneous Retinal Activity Prior to Vision. Neuron, 1996, 17, 863-874.	8.1	204
4	Different Subthreshold Mechanisms Underlie Song Selectivity in Identified HVc Neurons of the Zebra Finch. Journal of Neuroscience, 2000, 20, 5420-5436.	3.6	196
5	A Circuit for Motor Cortical Modulation of Auditory Cortical Activity. Journal of Neuroscience, 2013, 33, 14342-14353.	3.6	174
6	Neural mechanisms for learned birdsong. Learning and Memory, 2009, 16, 655-669.	1.3	163
7	The Basal Forebrain and Motor Cortex Provide Convergent yet Distinct Movement-Related Inputs to the Auditory Cortex. Neuron, 2016, 90, 635-648.	8.1	159
8	A cortical filter that learns to suppress the acoustic consequences of movement. Nature, 2018, 561, 391-395.	27.8	159
9	The HVC Microcircuit: The Synaptic Basis for Interactions between Song Motor and Vocal Plasticity Pathways. Journal of Neuroscience, 2005, 25, 1952-1964.	3.6	151
10	Long-Range Inhibition Within the Zebra Finch Song Nucleus RA Can Coordinate the Firing of Multiple Projection Neurons. Journal of Neurophysiology, 1999, 81, 3007-3020.	1.8	145
11	Motor circuits are required to encode a sensory model for imitative learning. Nature Neuroscience, 2012, 15, 1454-1459.	14.8	140
12	A Synaptic Basis for Auditoryâ€“Vocal Integration in the Songbird. Journal of Neuroscience, 2008, 28, 1509-1522.	3.6	131
13	Neural correlates of categorical perception in learned vocal communication. Nature Neuroscience, 2009, 12, 221-228.	14.8	128
14	A Specialized Neural Circuit Gates Social Vocalizations in the Mouse. Neuron, 2019, 103, 459-472.e4.	8.1	122
15	New Modules Are Added to Vibrissal Premotor Circuitry with the Emergence of Exploratory Whisking. Neuron, 2013, 77, 346-360.	8.1	117
16	Diminished FoxP2 Levels Affect Dopaminergic Modulation of Corticostriatal Signaling Important to Song Variability. Neuron, 2013, 80, 1464-1476.	8.1	112
17	MIN1PIPE: A Miniscope 1-Photon-Based Calcium Imaging Signal Extraction Pipeline. Cell Reports, 2018, 23, 3673-3684.	6.4	108
18	How Movement Modulates Hearing. Annual Review of Neuroscience, 2018, 41, 553-572.	10.7	107

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19	Development of Intrinsic and Synaptic Properties in a Forebrain Nucleus Essential to Avian Song Learning. Journal of Neuroscience, 1997, 17, 8997-9009.	3.6	105
20	Neurobiology of song learning. Current Opinion in Neurobiology, 2009, 19, 654-660.	4.2	104
21	Enhancement of transmission at the developing retinogeniculate synapse. Neuron, 1993, 10, 815-825.	8.1	101
22	Androgens Modulate NMDA Receptorâ€“Mediated EPSCs in the Zebra Finch Song System. Journal of Neurophysiology, 1999, 82, 2221-2234.	1.8	98
23	Calciumâ€binding proteins define interneurons in HVC of the zebra finch (Taeniopygia guttata). Journal of Comparative Neurology, 2005, 483, 76-90.	1.6	95
24	Identification of a motor-to-auditory pathway important for vocal learning. Nature Neuroscience, 2017, 20, 978-986.	14.8	93
25	A mesocortical dopamine circuit enables the cultural transmission of vocal behaviour. Nature, 2018, 563, 117-120.	27.8	89
26	A common neural circuit mechanism for internally guided and externally reinforced forms of motor learning. Nature Neuroscience, 2018, 21, 589-597.	14.8	88
27	The neurobiology of innate, volitional and learned vocalizations in mammals and birds. Philosophical Transactions of the Royal Society B: Biological Sciences, 2020, 375, 20190054.	4.0	84
28	Slow NMDA-EPSCs at synapses critical for song development are not required for song learning in zebra finches. Nature Neuroscience, 2000, 3, 482-488.	14.8	81
29	Synaptic Integration of Olfactory Information in Mouse Anterior Olfactory Nucleus. Journal of Neuroscience, 2006, 26, 12023-12032.	3.6	78
30	A Distributed Recurrent Network Contributes to Temporally Precise Vocalizations. Neuron, 2016, 91, 680-693.	8.1	78
31	Noradrenergic Induction of Odor-Specific Neural Habituation and Olfactory Memories. Journal of Neuroscience, 2008, 28, 10711-10719.	3.6	74
32	Auditory synapses to song premotor neurons are gated off during vocalization in zebra finches. ELife, 2014, 3, e01833.	6.0	74
33	Lesions of an Avian Forebrain Nucleus That Disrupt Song Development Alter Synaptic Connectivity and Transmission in the Vocal Premotor Pathway. Journal of Neuroscience, 1999, 19, 9385-9398.	3.6	73
34	Giant ankyrin-G stabilizes somatodendritic GABAergic synapses through opposing endocytosis of GABA _A receptors. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1214-1219.	7.1	72
35	Respiratory and Telencephalic Modulation of Vocal Motor Neurons in the Zebra Finch. Journal of Neuroscience, 2003, 23, 1072-1086.	3.6	69
36	Telencephalic Neurons Monosynaptically Link Brainstem and Forebrain Premotor Networks Necessary for Song. Journal of Neuroscience, 2008, 28, 3479-3489.	3.6	65

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37	Recurrent Interactions between the Input and Output of a Songbird Cortico-Basal Ganglia Pathway Are Implicated in Vocal Sequence Variability. Journal of Neuroscience, 2012, 32, 11671-11687.	3.6	65
38	Thalamic Gating of Auditory Responses in Telencephalic Song Control Nuclei. Journal of Neuroscience, 2007, 27, 10024-10036.	3.6	64
39	Inhibitory and Excitatory Mechanisms Underlying Auditory Responses to Learned Vocalizations in the Songbird Nucleus HVC. Neuron, 2003, 39, 177-194.	8.1	58
40	Circuit and synaptic organization of forebrain-to-midbrain pathways that promote and suppress vocalization. ELife, 2020, 9, .	6.0	57
41	Maternal Loss ofUbe3aImpairs Experience-Driven Dendritic Spine Maintenance in the Developing Visual Cortex. Journal of Neuroscience, 2016, 36, 4888-4894.	3.6	55
42	Auditory representation of the vocal repertoire in a songbird with multiple song types. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12778-12783.	7.1	53
43	Low-dimensional learned feature spaces quantify individual and group differences in vocal repertoires. ELife, 2021, 10, .	6.0	52
44	Deafening Drives Cell-Type-Specific Changes to Dendritic Spines in a Sensorimotor Nucleus Important to Learned Vocalizations. Neuron, 2012, 73, 1028-1039.	8.1	49
45	Auditoryâ€“vocal mirroring in songbirds. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130179.	4.0	49
46	Intracellular Neural Recording with Pure Carbon Nanotube Probes. PLoS ONE, 2013, 8, e65715.	2.5	48
47	Intrinsic and Extrinsic Contributions to Auditory Selectivity in a Song Nucleus Critical for Vocal Plasticity. Journal of Neuroscience, 2000, 20, 5437-5448.	3.6	47
48	Sensitive periods and circuits for learned birdsong. Current Opinion in Neurobiology, 1999, 9, 121-127.	4.2	45
49	Persistent Representation of Juvenile Experience in the Adult Songbird Brain. Journal of Neuroscience, 2010, 30, 10586-10598.	3.6	45
50	Discrete Evaluative and Premotor Circuits Enable Vocal Learning in Songbirds. Neuron, 2019, 104, 559-575.e6.	8.1	40
51	The role of auditory feedback in vocal learning and maintenance. Current Opinion in Neurobiology, 2012, 22, 320-327.	4.2	39
52	Motor-related signals in the auditory system for listening and learning. Current Opinion in Neurobiology, 2015, 33, 78-84.	4.2	39
53	Auditory Plasticity in a Basal Ganglia-Forebrain Pathway during Decrystallization of Adult Birdsong. Journal of Neuroscience, 2007, 27, 6374-6387.	3.6	38
54	Synaptic Interactions Underlying Song-Selectivity in the Avian Nucleus HVC Revealed by Dual Intracellular Recordings. Journal of Neurophysiology, 2006, 95, 1158-1175.	1.8	37

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55	Acute injections of brain-derived neurotrophic factor in a vocal premotor nucleus reversibly disrupt adult birdsong stability and trigger syllable deletion. Journal of Neurobiology, 2005, 62, 406-424.	3.6	36
56	Sequential Learning From Multiple Tutors and Serial Retuning of Auditory Neurons in a Brain Area Important to Birdsong Learning. Journal of Neurophysiology, 2004, 92, 2771-2788.	1.8	33
57	The neurobiology of innate and learned vocalizations in rodents and songbirds. Current Opinion in Neurobiology, 2020, 64, 24-31.	4.2	32
58	Focal expression of mutant huntingtin in the songbird basal ganglia disrupts cortico-basal ganglia networks and vocal sequences. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E1720-7.	7.1	31
59	Neural correlates of learned song in the avian forebrain: simultaneous representation of self and others. Current Opinion in Neurobiology, 2004, 14, 496-502.	4.2	28
60	Manipulation of a Central Auditory Representation Shapes Learned Vocal Output. Neuron, 2010, 65, 122-134.	8.1	27
61	A bird's eye view: top down intracellular analyses of auditory selectivity for learned vocalizations. Journal of Comparative Physiology A: Neuroethology, Sensory, Neural, and Behavioral Physiology, 2002, 188, 879-895.	1.6	25
62	Androgens and Isolation From Adult Tutors Differentially Affect the Development of Songbird Neurons Critical to Vocal Plasticity. Journal of Neurophysiology, 2001, 85, 34-42.	1.8	23
63	Imaging Auditory Representations of Song and Syllables in Populations of Sensorimotor Neurons Essential to Vocal Communication. Journal of Neuroscience, 2015, 35, 5589-5605.	3.6	22
64	Song Decrystallization in Adult Zebra Finches Does Not Require the Song Nucleus NIf. Journal of Neurophysiology, 2009, 102, 979-991.	1.8	21
65	Motor circuits help encode auditory memories of vocal models used to guide vocal learning. Hearing Research, 2013, 303, 48-57.	2.0	21
66	Neural dynamics underlying birdsong practice and performance. Nature, 2021, 599, 635-639.	27.8	21
67	Synaptic Mechanisms for Auditory-Vocal Integration and the Correction of Vocal Errors. Annals of the New York Academy of Sciences, 2004, 1016, 476-494.	3.8	17
68	Homogeneity of intrinsic properties of sexually dimorphic vocal motoneurons in male and female zebra finches. Journal of Comparative Neurology, 2007, 502, 157-169.	1.6	9
69	Bird communication: Two voices are better than one. Current Biology, 2000, 10, R634-R636.	3.9	7
70	Birdsong: Can an old bird change his tune?. Current Biology, 1999, 9, R688-R690.	3.9	6
71	Behavioural Learning: The illuminated songbird. Current Biology, 1995, 5, 609-611.	3.9	2
72	Sensory systems. Current Opinion in Neurobiology, 2006, 16, 359-362.	4.2	2

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73	The Song Remains the Same. Trends in Neurosciences, 2018, 41, 167-170.	8.6	1
74	Editorial overview: Neurobiology of behavior. Current Opinion in Neurobiology, 2020, 60, iii-v.	4.2	0