Rebecca P Seal

List of Publications by Year
in descending order

49 papers	6,062 citations	109321 35 h-index	206112 48 g-index
52 all docs	52 docs citations	52 times ranked	6530 citing authors

#	Article	IF	Citations
1	A Functional Topographic Map for Spinal Sensorimotor Reflexes. Neuron, 2021, 109, 91-104.e5.	8.1	49
2	Mechanical Allodynia Circuitry in the Dorsal Horn Is Defined by the Nature of the Injury. Neuron, 2021, 109, 73-90.e7.	8.1	100
3	Outer Hair Cell Glutamate Signaling through Type II Spiral Ganglion Afferents Activates Neurons in the Cochlear Nucleus in Response to Nondamaging Sounds. Journal of Neuroscience, 2021, 41, 2930-2943.	3.6	25
4	Transcript Expression of Vesicular Glutamate Transporters in Rat Dorsal Root Ganglion and Spinal Cord Neurons: Impact of Spinal Blockade during Hindpaw Inflammation. ACS Chemical Neuroscience, 2020, 11, 2602-2614.	3.5	1
5	Perinatal interference with the serotonergic system affects VTA function in the adult via glutamate co-transmission. Molecular Psychiatry, 2020, 26, 4795-4812.	7.9	10
6	A Critical Role for Dopamine D5 Receptors in Pain Chronicity in Male Mice. Journal of Neuroscience, 2018, 38, 379-397.	3.6	62
7	Uncovering the Cells and Circuits of Touch in Normal and Pathological Settings. Neuron, 2018, 100, 349-360.	8.1	121
8	Layer- and cell type-selective co-transmission by a basal forebrain cholinergic projection to the olfactory bulb. Nature Communications, 2017, 8, 652.	12.8	50
9	Do the distinct synaptic properties of VGLUTs shape pain?. Neurochemistry International, 2016, 98, 82-88.	3.8	9
10	Illuminating the Gap: Neuronal Cross-Talk within Sensory Ganglia and Persistent Pain. Neuron, 2016, 91, 950-951.	8.1	8
11	Making sense out of spinal cord somatosensory development. Development (Cambridge), 2016, 143, 3434-3448.	2.5	161
12	Cell Biology of Tactile Afferents. , 2016, , 49-59.		0
13	Neural circuits for pain: Recent advances and current views. Science, 2016, 354, 578-584.	12.6	326
14	Loss of VGLUT3 Produces Circadian-Dependent Hyperdopaminergia and Ameliorates Motor Dysfunction and l-Dopa-Mediated Dyskinesias in a Model of Parkinson's Disease. Journal of Neuroscience, 2015, 35, 14983-14999.	3.6	53
15	A Non-canonical Pathway from Cochlea to Brain Signals Tissue-Damaging Noise. Current Biology, 2015, 25, 606-612.	3.9	119
16	Presynaptic inhibition of optogenetically identified VGluT3+ sensory fibres by opioids and baclofen. Pain, 2015, 156, 243-251.	4.2	24
17	Targeting Toll-like receptors to treat chronic pain. Nature Medicine, 2015, 21, 1251-1252.	30.7	15
18	Dorsal Horn Circuits for Persistent Mechanical Pain. Neuron, 2015, 87, 797-812.	8.1	259

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19	An Unconventional Glutamatergic Circuit in the Retina Formed by vGluT3 Amacrine Cells. Neuron, 2014, 84, 708-715.	8.1	103
20	Striatal Cholinergic Neurotransmission Requires VGLUT3. Journal of Neuroscience, 2014, 34, 8772-8777.	3.6	83
21	A glutamatergic reward input from the dorsal raphe to ventral tegmental area dopamine neurons. Nature Communications, 2014, 5, 5390.	12.8	158
22	A population of glomerular glutamatergic neurons controls sensory information transfer in the mouse olfactory bulb. Nature Communications, 2014, 5, 3791.	12.8	36
23	Striatal Cholinergic Interneurons Drive GABA Release from Dopamine Terminals. Neuron, 2014, 82, 63-70.	8.1	140
24	Expression of Vesicular Glutamate Transporters in Sensory and Autonomic Neurons Innervating the Mouse Bladder. Journal of Urology, 2013, 189, 2342-2349.	0.4	17
25	Restoration of Hearing in the VGLUT3 Knockout Mouse Using Virally Mediated Gene Therapy. Neuron, 2012, 75, 283-293.	8.1	319
26	Nav1.8 expression is not restricted to nociceptors in mouse peripheral nervous system. Pain, 2012, 153, 2017-2030.	4.2	223
27	Expression of vesicular glutamate transporters type 1 and 2 in sensory and autonomic neurons innervating the mouse colorectum. Journal of Comparative Neurology, 2011, 519, 3346-3366.	1.6	36
28	Genetic targeting and physiological features of VGLUT3+ amacrine cells. Visual Neuroscience, 2011, 28, 381-392.	1.0	89
29	Cholinergic Interneurons Mediate Fast VGluT3-Dependent Glutamatergic Transmission in the Striatum. PLoS ONE, 2011, 6, e19155.	2.5	155
30	Glutamate co-release at GABA/glycinergic synapses is crucial for the refinement of an inhibitory map. Nature Neuroscience, 2010, 13, 232-238.	14.8	156
31	Injury-induced mechanical hypersensitivity requires C-low threshold mechanoreceptors. Nature, 2009, 462, 651-655.	27.8	392
32	Synaptic and Extrasynaptic Factors Governing Glutamatergic Retinal Waves. Neuron, 2009, 62, 230-241.	8.1	96
33	Effects of threo-Î²-hydroxyaspartate derivatives on excitatory amino acid transporters (EAAT4 and) Tj ETQq1 1 0.784314 rgBT /Overlock	3.9	82
34	Sensorineural Deafness and Seizures in Mice Lacking Vesicular Glutamate Transporter 3. Neuron, 2008, 57, 263-275.	8.1	340
35	Thyronamines Inhibit Plasma Membrane and Vesicular Monoamine Transport. ACS Chemical Biology, 2007, 2, 390-398.	3.4	55
36	Structural Rearrangements at the Translocation Pore of the Human Glutamate Transporter, EAAT1. Journal of Biological Chemistry, 2006, 281, 29788-29796.	3.4	37

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37	Functional implications of neurotransmitter co-release: glutamate and GABA share the load. Current Opinion in Pharmacology, 2006, 6, 114-119.	3.5	75
38	Differential regulation of GLAST immunoreactivity and activity by protein kinase C: evidence for modification of amino and carboxyl termini. Journal of Neurochemistry, 2004, 91, 1151-1163.	3.9	47
39	Vesicular glutamate transporter 3 expression identifies glutamatergic amacrine cells in the rodent retina. Journal of Comparative Neurology, 2004, 477, 386-398.	1.6	95
40	Expression of the vesicular glutamate transporters during development indicates the widespread corelease of multiple neurotransmitters. Journal of Comparative Neurology, 2004, 480, 264-280.	1.6	239
41	Molecular pharmacology of glutamate transporters, EAATs and VGLUTs. Brain Research Reviews, 2004, 45, 250-265.	9.0	315
42	VGLUTs define subsets of excitatory neurons and suggest novel roles for glutamate. Trends in Neurosciences, 2004, 27, 98-103.	8.6	668
43	The H⁺-Coupled Electrogenic Lysosomal Amino Acid Transporter LYAAT1 Localizes to the Axon and Plasma Membrane of Hippocampal Neurons. Journal of Neuroscience, 2003, 23, 1265-1275.	3.6	57
44	A Hydrophobic Domain in Glutamate Transporters Forms an Extracellular Helix Associated with the Permeation Pathway for Substrates. Journal of Biological Chemistry, 2002, 277, 29847-29855.	3.4	32
45	Sulfhydryl modification of V449C in the glutamate transporter EAAT1 abolishes substrate transport but not the substrate-gated anion conductance. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 15324-15329.	7.1	69
46	A Model for the Topology of Excitatory Amino Acid Transporters Determined by the Extracellular Accessibility of Substituted Cysteines. Neuron, 2000, 25, 695-706.	8.1	122
47	EXCITATORY AMINO ACID TRANSPORTERS: A Family in Flux. Annual Review of Pharmacology and Toxicology, 1999, 39, 431-456.	9.4	300
48	A Reentrant Loop Domain in the Glutamate Carrier EAAT1 Participates in Substrate Binding and Translocation. Neuron, 1998, 21, 1487-1498.	8.1	110
49	[22] Transmembrane topology mapping using biotin-containing sulfhydryl reagents. Methods in Enzymology, 1998, 296, 318-331.	1.0	23