

# Shannon D Shields

## List of Publications by Year in descending order

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Version: 2024-02-01

25  
papers

2,997  
citations

471509

17  
h-index

677142

22  
g-index

25  
all docs

25  
docs citations

25  
times ranked

3773  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Non-covalent Ligand Reveals Biased Agonism of the TRPA1 Ion Channel. <i>Neuron</i> , 2021, 109, 273-284.e4.	8.1	52
2	A TRPA1 inhibitor suppresses neurogenic inflammation and airway contraction for asthma treatment. <i>Journal of Experimental Medicine</i> , 2021, 218, .	8.5	56
3	Tetrahydrofuran-Based Transient Receptor Potential Ankyrin 1 (TRPA1) Antagonists: Ligand-Based Discovery, Activity in a Rodent Asthma Model, and Mechanism-of-Action via Cryogenic Electron Microscopy. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 3843-3869.	6.4	22
4	Discovery of Acyl-sulfonamide Na <sub>v</sub> 1.7 Inhibitors GDC-0276 and GDC-0310. <i>Journal of Medicinal Chemistry</i> , 2021, 64, 2953-2966.	6.4	16
5	A Retrospective Look at the Impact of Binding Site Environment on the Optimization of TRPA1 Antagonists. <i>ACS Medicinal Chemistry Letters</i> , 2021, 12, 1230-1237.	2.8	10
6	Behavioral characterization of a CRISPR-generated TRPA1 knockout rat in models of pain, itch, and asthma. <i>Scientific Reports</i> , 2020, 10, 979.	3.3	43
7	Structure- and Ligand-Based Discovery of Chromane Arylsulfonamide Na <sub>v</sub> 1.7 Inhibitors for the Treatment of Chronic Pain. <i>Journal of Medicinal Chemistry</i> , 2019, 62, 4091-4109.	6.4	21
8	Discovery of a Potent (4 <i>R</i> ,5 <i>S</i> )-4-Fluoro-5-methylproline Sulfonamide Transient Receptor Potential Ankyrin 1 Antagonist and Its Methylene Phosphate Prodrug Guided by Molecular Modeling. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 3641-3659.	6.4	27
9	Insensitivity to Pain upon Adult-Onset Deletion of Nav1.7 or Its Blockade with Selective Inhibitors. <i>Journal of Neuroscience</i> , 2018, 38, 10180-10201.	3.6	59
10	BACE1 across species: a comparison of the in vivo consequences of BACE1 deletion in mice and rats. <i>Scientific Reports</i> , 2017, 7, 44249.	3.3	12
11	Oral Administration of PF-01247324, a Subtype-Selective Nav1.8 Blocker, Reverses Cerebellar Deficits in a Mouse Model of Multiple Sclerosis. <i>PLoS ONE</i> , 2015, 10, e0119067.	2.5	18
12	Conditional deletion of HCN2 from primary afferents uncovers the heterogeneity of inflammatory hypersensitivity. <i>Pain</i> , 2014, 155, 1051-1052.	4.2	0
13	Wnts Are Expressed in the Spinal Cord of Adult Mice and Are Differentially Induced after Injury. <i>Journal of Neurotrauma</i> , 2014, 31, 565-581.	3.4	59
14	Sodium Channel Na <sub>v</sub> 1.7 Is Essential for Lowering Heat Pain Threshold after Burn Injury. <i>Journal of Neuroscience</i> , 2012, 32, 10819-10832.	3.6	88
15	Nav1.8 expression is not restricted to nociceptors in mouse peripheral nervous system. <i>Pain</i> , 2012, 153, 2017-2030.	4.2	223
16	A channelopathy contributes to cerebellar dysfunction in a model of multiple sclerosis. <i>Annals of Neurology</i> , 2012, 71, 186-194.	5.3	41
17	Intracellular pH in primary somatosensory neurons. <i>Neuroscience Letters</i> , 2011, 501, 1-3.	2.1	0
18	Cerebellar dysfunction in multiple sclerosis: in the blink of an eye. <i>Multiple Sclerosis Journal</i> , 2011, 17, 1152-1154.	3.0	0

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19	Pain behavior in the formalin test persists after ablation of the great majority of C-fiber nociceptors. <i>Pain</i> , 2010, 151, 422-429.	4.2	116
20	Olfactory ensheathing glia express aquaporin 1. <i>Journal of Comparative Neurology</i> , 2010, 518, 4329-4341.	1.6	14
21	Distinct subsets of unmyelinated primary sensory fibers mediate behavioral responses to noxious thermal and mechanical stimuli. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 9075-9080.	7.1	581
22	Anatomical and functional analysis of aquaporin 1, a water channel in primary afferent neurons. <i>Pain</i> , 2007, 131, 8-20.	4.2	81
23	Spared nerve injury model of neuropathic pain in the mouse: a behavioral and anatomic analysis. <i>Journal of Pain</i> , 2003, 4, 465-470.	1.4	252
24	Group I Metabotropic Glutamate Antagonist Reduces Acute Neuronal Degeneration and Behavioral Deficits after Traumatic Brain Injury in Rats. <i>Experimental Neurology</i> , 2001, 169, 191-199.	4.1	62
25	Bradykinin and nerve growth factor release the capsaicin receptor from PtdIns(4,5)P2-mediated inhibition. <i>Nature</i> , 2001, 411, 957-962.	27.8	1,144