

# Sophie Pezet

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

4,275  
citations

172457

29  
h-index

182427

51  
g-index

58  
all docs

58  
docs citations

58  
times ranked

4741  
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrafast ultrasound localization microscopy for deep super-resolution vascular imaging. <i>Nature</i> , 2015, 527, 499-502.	27.8	884
2	NEUROTROPHINS: Mediators and Modulators of Pain. <i>Annual Review of Neuroscience</i> , 2006, 29, 507-538.	10.7	758
3	BDNF: a neuromodulator in nociceptive pathways?. <i>Brain Research Reviews</i> , 2002, 40, 240-249.	9.0	189
4	Functional ultrasound imaging of intrinsic connectivity in the living rat brain with high spatiotemporal resolution. <i>Nature Communications</i> , 2014, 5, 5023.	12.8	150
5	Nociceptor-derived brain-derived neurotrophic factor regulates acute and inflammatory but not neuropathic pain. <i>Molecular and Cellular Neurosciences</i> , 2006, 31, 539-548.	2.2	148
6	Brain-derived neurotrophic factor induces NMDA receptor subunit one phosphorylation via ERK and PKC in the rat spinal cord. <i>European Journal of Neuroscience</i> , 2004, 20, 1769-1778.	2.6	138
7	4D functional ultrasound imaging of whole-brain activity in rodents. <i>Nature Methods</i> , 2019, 16, 994-997.	19.0	135
8	Phosphatidylinositol 3-Kinase Is a Key Mediator of Central Sensitization in Painful Inflammatory Conditions. <i>Journal of Neuroscience</i> , 2008, 28, 4261-4270.	3.6	131
9	Noxious Stimulation Induces Trk Receptor and Downstream ERK Phosphorylation in Spinal Dorsal Horn. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 684-695.	2.2	121
10	Transcranial functional ultrasound imaging of the brain using microbubble-enhanced ultrasensitive Doppler. <i>NeuroImage</i> , 2016, 124, 752-761.	4.2	118
11	Brain-derived neurotrophic factor as a drug target for CNS disorders. <i>Expert Opinion on Therapeutic Targets</i> , 2004, 8, 391-399.	3.4	114
12	Chondroitinase ABC-Mediated Plasticity of Spinal Sensory Function. <i>Journal of Neuroscience</i> , 2008, 28, 11998-12009.	3.6	102
13	BDNF Modulates Sensory Neuron Synaptic Activity by a Facilitation of GABA Transmission in the Dorsal Horn. <i>Molecular and Cellular Neurosciences</i> , 2002, 21, 51-62.	2.2	92
14	Transcranial Functional Ultrasound Imaging in Freely Moving Awake Mice and Anesthetized Young Rats without Contrast Agent. <i>Ultrasound in Medicine and Biology</i> , 2017, 43, 1679-1689.	1.5	87
15	Perturbing PSD-95 Interactions With NR2B-subtype Receptors Attenuates Spinal Nociceptive Plasticity and Neuropathic Pain. <i>Molecular Therapy</i> , 2011, 19, 1780-1792.	8.2	80
16	The signaling components of sensory fiber transmission involved in the activation of ERK MAP kinase in the mouse dorsal horn. <i>Molecular and Cellular Neurosciences</i> , 2003, 24, 259-270.	2.2	74
17	Reversal of neurochemical changes and pain-related behavior in a model of neuropathic pain using modified lentiviral vectors expressing GDNF. <i>Molecular Therapy</i> , 2006, 13, 1101-1109.	8.2	62
18	BDNF-Dependent Plasticity Induced by Peripheral Inflammation in the Primary Sensory and the Cingulate Cortex Triggers Cold Allodynia and Reveals a Major Role for Endogenous BDNF As a Tuner of the Affective Aspect of Pain. <i>Journal of Neuroscience</i> , 2014, 34, 14739-14751.	3.6	61

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19	Differential regulation of NGF receptors in primary sensory neurons by adjuvant-induced arthritis in the rat. <i>Pain</i> , 2001, 90, 113-125.	4.2	60
20	<i>In Vivo</i> Imaging of Single Tumor Cells in Fast-Flowing Bloodstream Using Near-Infrared Quantum Dots and Time-Gated Imaging. <i>ACS Nano</i> , 2019, 13, 3125-3131.	14.6	48
21	Activity-dependent phosphorylation of Akt/PKB in adult DRG neurons. <i>European Journal of Neuroscience</i> , 2005, 21, 1785-1797.	2.6	45
22	In vivo whole brain microvascular imaging in mice using transcranial 3D Ultrasound Localization Microscopy. <i>EBioMedicine</i> , 2022, 79, 103995.	6.1	45
23	Characterisation of sensory abnormalities observed in an animal model of multiple sclerosis: A behavioural and pharmacological study. <i>European Journal of Pain</i> , 2011, 15, 231.e1-16.	2.8	43
24	Molecular Mechanisms Underlying the Enhanced Analgesic Effect of Oxycodone Compared to Morphine in Chemotherapy-Induced Neuropathic Pain. <i>PLoS ONE</i> , 2014, 9, e91297.	2.5	43
25	TrkB expression and phospho-ERK activation by brain-derived neurotrophic factor in rat spinothalamic tract neurons. <i>Journal of Comparative Neurology</i> , 2005, 489, 59-68.	1.6	42
26	Activation-Dependent Subcellular Distribution Patterns of CB1 Cannabinoid Receptors in the Rat Forebrain. <i>Cerebral Cortex</i> , 2013, 23, 2581-2591.	2.9	39
27	Specific Involvement of Atypical PKC $\delta$ /PKM $\beta$ in Spinal Persistent Nociceptive Processing following Peripheral Inflammation in Rat. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-86.	2.1	38
28	Matrix metalloproteinase and elastase activities in LPS-induced acute lung injury in guinea pigs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1994, 266, L209-L216.	2.9	33
29	Chronic Pain is Associated with Increased TrkA Immunoreactivity in Spinoreticular Neurons. <i>Journal of Neuroscience</i> , 1999, 19, 5482-5492.	3.6	33
30	Large-scale functional ultrasound imaging of the spinal cord reveals in-depth spatiotemporal responses of spinal nociceptive circuits in both normal and inflammatory states. <i>Pain</i> , 2021, 162, 1047-1059.	4.2	32
31	Pharmaco-fUS: Quantification of pharmacologically-induced dynamic changes in brain perfusion and connectivity by functional ultrasound imaging in awake mice. <i>NeuroImage</i> , 2020, 222, 117231.	4.2	29
32	Mechanism by which Brain-Derived Neurotrophic Factor Increases Dopamine Release from the Rabbit Retina. , 2003, 44, 791.		26
33	Cortical effect of oxaliplatin associated with sustained neuropathic pain: Exacerbation of cortical activity and down-regulation of potassium channel expression in somatosensory cortex. <i>Pain</i> , 2012, 153, 1636-1647.	4.2	26
34	Basal and activity-induced release of substance P from primary afferent fibres in NK1 receptor knockout mice: evidence for negative feedback. <i>Neuropharmacology</i> , 2003, 45, 1101-1110.	4.1	22
35	Whole-Brain 3D Activation and Functional Connectivity Mapping in Mice using Transcranial Functional Ultrasound Imaging. <i>Journal of Visualized Experiments</i> , 2021, , .	0.3	22
36	Respective pharmacological features of neuropathic-like pain evoked by intrathecal BDNF versus sciatic nerve ligation in rats. <i>European Neuropsychopharmacology</i> , 2015, 25, 2118-2130.	0.7	21

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37	A novel control mechanism based on GDNF modulation of somatostatin release from sensory neurones. <i>FASEB Journal</i> , 2002, 16, 730-732.	0.5	20
38	Oxidant-antioxidant balance in alveolar macrophages from newborn rats. <i>European Respiratory Journal</i> , 1996, 9, 2517-2524.	6.7	19
39	Matrix metalloproteinase gelatinases in sulfur mustard-induced acute airway injury in guinea pigs. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1999, 276, L754-L762.	2.9	19
40	Structural and Molecular Alterations of Primary Afferent Fibres in the Spinal Dorsal Horn in Vincristine-Induced Neuropathy in Rat. <i>Journal of Molecular Neuroscience</i> , 2013, 51, 880-892.	2.3	19
41	Ultrafast ultrasound imaging pattern analysis reveals distinctive dynamic brain states and potent sub-network alterations in arthritic animals. <i>Scientific Reports</i> , 2020, 10, 10485.	3.3	16
42	Persistent visceral allodynia in rats exposed to colorectal irradiation is reversed by mesenchymal stromal cell treatment. <i>Pain</i> , 2015, 156, 1465-1476.	4.2	13
43	Ultrafast Doppler imaging and ultrasound localization microscopy reveal the complexity of vascular rearrangement in chronic spinal lesion. <i>Scientific Reports</i> , 2022, 12, 6574.	3.3	12
44	Orofacial Neuropathic Pain Leads to a Hyporesponsive Barrel Cortex with Enhanced Structural Synaptic Plasticity. <i>PLoS ONE</i> , 2016, 11, e0160786.	2.5	10
45	Lentiviral vector-driven inhibition of 5-HT synthesis in B3 bulbo-spinal serotonergic projections "Consequences on nociception, inflammatory and neuropathic pain in rats. <i>Experimental Neurology</i> , 2017, 288, 11-24.	4.1	10
46	Dimethylarginine dimethylaminohydrolase 1 is involved in spinal nociceptive plasticity. <i>Pain</i> , 2015, 156, 2052-2060.	4.2	9
47	Ultrasound localization microscopy and functional ultrasound imaging reveal atypical features of the trigeminal ganglion vasculature. <i>Communications Biology</i> , 2022, 5, 330.	4.4	8
48	Tachykinins induce gelatinase production by guinea pig alveolar macrophages: involvement of NK2 receptors. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1995, 269, L631-L636.	2.9	4
49	Relationship of Serum Neutral Endopeptidase E.C.3,4,24.11 Activity to Alcohol Consumption. <i>Alcoholism: Clinical and Experimental Research</i> , 1998, 22, 1405-1408.	2.4	3
50	Role of NGF in Neuronal Plasticity in the Lateral Reticular Nucleus in Chronic Inflammatory Pain. <i>Open Pain Journal</i> , 2009, 2, 41-52.	0.4	2
51	Modulatory effects of PKC activity on increased 92-kDa gelatinase secretion by neonatal alveolar macrophages. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 1997, 273, L989-L996.	2.9	1