

# Apkar Vania Apkarian

## List of Publications by Citations

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201  
papers

18,593  
citations

69  
h-index

134  
g-index

212  
ext. papers

21,516  
ext. citations

5.6  
avg, IF

6.82  
L-index

#	Paper	IF	Citations
201	Human brain mechanisms of pain perception and regulation in health and disease. <i>European Journal of Pain</i> , <b>2005</b> , 9, 463-84	3.7	2053
200	Scale-free brain functional networks. <i>Physical Review Letters</i> , <b>2005</b> , 94, 018102	7.4	1047
199	Chronic back pain is associated with decreased prefrontal and thalamic gray matter density. <i>Journal of Neuroscience</i> , <b>2004</b> , 24, 10410-5	6.6	993
198	Corticostriatal functional connectivity predicts transition to chronic back pain. <i>Nature Neuroscience</i> , <b>2012</b> , 15, 1117-9	25.5	625
197	Beyond feeling: chronic pain hurts the brain, disrupting the default-mode network dynamics. <i>Journal of Neuroscience</i> , <b>2008</b> , 28, 1398-403	6.6	569
196	Towards a theory of chronic pain. <i>Progress in Neurobiology</i> , <b>2009</b> , 87, 81-97	10.9	545
195	Chronic pain and the emotional brain: specific brain activity associated with spontaneous fluctuations of intensity of chronic back pain. <i>Journal of Neuroscience</i> , <b>2006</b> , 26, 12165-73	6.6	510
194	Pain and the brain: specificity and plasticity of the brain in clinical chronic pain. <i>Pain</i> , <b>2011</b> , 152, S49-S64	8	457
193	Shape shifting pain: chronification of back pain shifts brain representation from nociceptive to emotional circuits. <i>Brain</i> , <b>2013</b> , 136, 2751-68	11.2	414
192	Chronic pain patients are impaired on an emotional decision-making task. <i>Pain</i> , <b>2004</b> , 108, 129-36	8	376
191	The brain in chronic CRPS pain: abnormal gray-white matter interactions in emotional and autonomic regions. <i>Neuron</i> , <b>2008</b> , 60, 570-81	13.9	372
190	Predicting value of pain and analgesia: nucleus accumbens response to noxious stimuli changes in the presence of chronic pain. <i>Neuron</i> , <b>2010</b> , 66, 149-60	13.9	371
189	Nociception, Pain, Negative Moods, and Behavior Selection. <i>Neuron</i> , <b>2015</b> , 87, 474-91	13.9	319
188	Morphological and functional reorganization of rat medial prefrontal cortex in neuropathic pain. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2009</b> , 106, 2423-8	11.5	291
187	Functional reorganization of the default mode network across chronic pain conditions. <i>PLoS ONE</i> , <b>2014</b> , 9, e106133	3.7	287
186	Abnormalities in hippocampal functioning with persistent pain. <i>Journal of Neuroscience</i> , <b>2012</b> , 32, 5747-566		284
185	Brain morphological signatures for chronic pain. <i>PLoS ONE</i> , <b>2011</b> , 6, e26010	3.7	242

184	Abnormal brain chemistry in chronic back pain: an in vivo proton magnetic resonance spectroscopy study. <i>Pain</i> , <b>2000</b> , 89, 7-18	8	213
183	Cortical representation of pain: functional characterization of nociceptive areas near the lateral sulcus. <i>Pain</i> , <b>2000</b> , 87, 113-119	8	211
182	Biotin-dextran: a sensitive anterograde tracer for neuroanatomic studies in rat and monkey. <i>Journal of Neuroscience Methods</i> , <b>1992</b> , 45, 35-40	3	205
181	The cortical rhythms of chronic back pain. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 13981-90	6.6	198
180	Anatomical and functional assemblies of brain BOLD oscillations. <i>Journal of Neuroscience</i> , <b>2011</b> , 31, 7910-6	6.6	186
179	Corticolimbic anatomical characteristics predetermine risk for chronic pain. <i>Brain</i> , <b>2016</b> , 139, 1958-70	11.2	183
178	Parsing pain perception between nociceptive representation and magnitude estimation. <i>Journal of Neurophysiology</i> , <b>2009</b> , 101, 875-87	3.2	181
177	A comparative fMRI study of cortical representations for thermal painful, vibrotactile, and motor performance tasks. <i>NeuroImage</i> , <b>1999</b> , 10, 460-82	7.9	174
176	Brain white matter structural properties predict transition to chronic pain. <i>Pain</i> , <b>2013</b> , 154, 2160-2168	8	167
175	Primate spinothalamic pathways: III. Thalamic terminations of the dorsolateral and ventral spinothalamic pathways. <i>Journal of Comparative Neurology</i> , <b>1989</b> , 288, 493-511	3.4	167
174	Fingertip representation in the human somatosensory cortex: an fMRI study. <i>NeuroImage</i> , <b>1998</b> , 7, 261-83	3.9	160
173	A dynamic network perspective of chronic pain. <i>Neuroscience Letters</i> , <b>2012</b> , 520, 197-203	3.3	144
172	Targeted Muscle Reinnervation Treats Neuroma and Phantom Pain in Major Limb Amputees: A Randomized Clinical Trial. <i>Annals of Surgery</i> , <b>2019</b> , 270, 238-246	7.8	135
171	Brain activity for spontaneous pain of postherpetic neuralgia and its modulation by lidocaine patch therapy. <i>Pain</i> , <b>2007</b> , 128, 88-100	8	134
170	Heat-induced pain diminishes vibrotactile perception: a touch gate. <i>Somatosensory &amp; Motor Research</i> , <b>1994</b> , 11, 259-67	1.2	132
169	Predicting transition to chronic pain. <i>Current Opinion in Neurology</i> , <b>2013</b> , 26, 360-7	7.1	123
168	Anatomic evidence of nociceptive inputs to primary somatosensory cortex: relationship between spinothalamic terminals and thalamocortical cells in squirrel monkeys. <i>Journal of Comparative Neurology</i> , <b>1991</b> , 308, 467-90	3.4	121
167	Pain perception in relation to emotional learning. <i>Current Opinion in Neurobiology</i> , <b>2008</b> , 18, 464-8	7.6	120

166	Persistent pain inhibits contralateral somatosensory cortical activity in humans. <i>Neuroscience Letters</i> , <b>1992</b> , 140, 141-7	3.3	118
165	The indirect pathway of the nucleus accumbens shell amplifies neuropathic pain. <i>Nature Neuroscience</i> , <b>2016</b> , 19, 220-2	25.5	117
164	Prefrontal cortical hyperactivity in patients with sympathetically mediated chronic pain. <i>Neuroscience Letters</i> , <b>2001</b> , 311, 193-7	3.3	116
163	Role of nucleus accumbens in neuropathic pain: linked multi-scale evidence in the rat transitioning to neuropathic pain. <i>Pain</i> , <b>2014</b> , 155, 1128-1139	8	111
162	Reorganization of hippocampal functional connectivity with transition to chronic back pain. <i>Journal of Neurophysiology</i> , <b>2014</b> , 111, 1065-76	3.2	110
161	The Emotional Brain as a Predictor and Amplifier of Chronic Pain. <i>Journal of Dental Research</i> , <b>2016</b> , 95, 605-12	8.1	109
160	Primate spinothalamic pathways: I. A quantitative study of the cells of origin of the spinothalamic pathway. <i>Journal of Comparative Neurology</i> , <b>1989</b> , 288, 447-73	3.4	109
159	A preliminary fMRI study of analgesic treatment in chronic back pain and knee osteoarthritis. <i>Molecular Pain</i> , <b>2008</b> , 4, 47	3.4	98
158	Changes in the effects of stimulation of locus coeruleus and nucleus raphe magnus following dorsal rhizotomy. <i>Brain Research</i> , <b>1983</b> , 288, 325-9	3.7	98
157	Brain Connectivity Predicts Placebo Response across Chronic Pain Clinical Trials. <i>PLoS Biology</i> , <b>2016</b> , 14, e1002570	9.7	96
156	Differentiating cortical areas related to pain perception from stimulus identification: temporal analysis of fMRI activity. <i>Journal of Neurophysiology</i> , <b>1999</b> , 81, 2956-63	3.2	95
155	Primate spinothalamic pathways: II. The cells of origin of the dorsolateral and ventral spinothalamic pathways. <i>Journal of Comparative Neurology</i> , <b>1989</b> , 288, 474-92	3.4	92
154	Chronic neuropathic pain-like behavior correlates with IL-1 $\beta$ expression and disrupts cytokine interactions in the hippocampus. <i>Pain</i> , <b>2011</b> , 152, 2827-2835	8	90
153	Spinothalamocortical projections to the secondary somatosensory cortex (SII) in squirrel monkey. <i>Brain Research</i> , <b>1993</b> , 631, 241-6	3.7	90
152	Parceling human accumbens into putative core and shell dissociates encoding of values for reward and pain. <i>Journal of Neuroscience</i> , <b>2013</b> , 33, 16383-93	6.6	88
151	Chronic pain: the role of learning and brain plasticity. <i>Restorative Neurology and Neuroscience</i> , <b>2014</b> , 32, 129-39	2.8	88
150	Brain functional and anatomical changes in chronic prostatitis/chronic pelvic pain syndrome. <i>Journal of Urology</i> , <b>2011</b> , 186, 117-24	2.5	87
149	Brain networks predicting placebo analgesia in a clinical trial for chronic back pain. <i>Pain</i> , <b>2012</b> , 153, 2393-2402	8	86

148	D-cycloserine reduces neuropathic pain behavior through limbic NMDA-mediated circuitry. <i>Pain</i> , <b>2007</b> , 132, 108-23	8	85
147	Expression of IL-1beta in supraspinal brain regions in rats with neuropathic pain. <i>Neuroscience Letters</i> , <b>2006</b> , 407, 176-81	3.3	85
146	Direct spinal projections to limbic and striatal areas: anterograde transport studies from the upper cervical spinal cord and the cervical enlargement in squirrel monkey and rat. <i>Journal of Comparative Neurology</i> , <b>1996</b> , 365, 640-58	3.4	84
145	Brain chemistry reflects dual states of pain and anxiety in chronic low back pain. <i>Journal of Neural Transmission</i> , <b>2002</b> , 109, 1309-34	4.3	83
144	Personalized medicine and opioid analgesic prescribing for chronic pain: opportunities and challenges. <i>Journal of Pain</i> , <b>2013</b> , 14, 103-13	5.2	81
143	Functional imaging of pain: new insights regarding the role of the cerebral cortex in human pain perception. <i>Seminars in Neuroscience</i> , <b>1995</b> , 7, 279-293		80
142	Modulated noisy biological dynamics: Three examples. <i>Journal of Statistical Physics</i> , <b>1993</b> , 70, 375-391	1.5	80
141	Chemical heterogeneity of the living human brain: a proton MR spectroscopy study on the effects of sex, age, and brain region. <i>NeuroImage</i> , <b>2000</b> , 11, 554-63	7.9	79
140	Alterations in resting state oscillations and connectivity in sensory and motor networks in women with interstitial cystitis/painful bladder syndrome. <i>Journal of Urology</i> , <b>2014</b> , 192, 947-55	2.5	76
139	Köiker-Fuse nucleus: the principal source of pontine catecholaminergic cells projecting to the lumbar spinal cord of cat. <i>Brain Research</i> , <b>1982</b> , 239, 589-94	3.7	75
138	Brain activity for chronic knee osteoarthritis: dissociating evoked pain from spontaneous pain. <i>European Journal of Pain</i> , <b>2011</b> , 15, 843.e1-14	3.7	74
137	Dynamics of pain: fractal dimension of temporal variability of spontaneous pain differentiates between pain States. <i>Journal of Neurophysiology</i> , <b>2006</b> , 95, 730-6	3.2	74
136	Brain signature and functional impact of centralized pain: a multidisciplinary approach to the study of chronic pelvic pain (MAPP) network study. <i>Pain</i> , <b>2017</b> , 158, 1979-1991	8	73
135	Imaging the pain of low back pain: functional magnetic resonance imaging in combination with monitoring subjective pain perception allows the study of clinical pain states. <i>Neuroscience Letters</i> , <b>2001</b> , 299, 57-60	3.3	70
134	Increased brain gray matter in the primary somatosensory cortex is associated with increased pain and mood disturbance in patients with interstitial cystitis/painful bladder syndrome. <i>Journal of Urology</i> , <b>2015</b> , 193, 131-7	2.5	69
133	Beneficial effects of hematopoietic growth factor therapy in chronic ischemic stroke in rats. <i>Stroke</i> , <b>2007</b> , 38, 2804-11	6.7	69
132	Brain dynamics for perception of tactile allodynia (touch-induced pain) in postherpetic neuralgia. <i>Pain</i> , <b>2008</b> , 138, 641-656	8	68
131	Role of adult hippocampal neurogenesis in persistent pain. <i>Pain</i> , <b>2016</b> , 157, 418-428	8	68

130	Global disruption of degree rank order: a hallmark of chronic pain. <i>Scientific Reports</i> , <b>2016</b> , 6, 34853	4.9	64
129	Neural mechanisms of pain and alcohol dependence. <i>Pharmacology Biochemistry and Behavior</i> , <b>2013</b> , 112, 34-41	3.9	63
128	Aging alters regional multichemical profile of the human brain: an in vivo 1H-MRS study of young versus middle-aged subjects. <i>Journal of Neurochemistry</i> , <b>2001</b> , 76, 582-93	6	62
127	Linking human brain local activity fluctuations to structural and functional network architectures. <i>NeuroImage</i> , <b>2013</b> , 73, 144-55	7.9	59
126	Preliminary structural MRI based brain classification of chronic pelvic pain: A MAPP network study. <i>Pain</i> , <b>2014</b> , 155, 2502-2509	8	58
125	Pharmacotherapy for Pain in a Family With Inherited Erythromelalgia Guided by Genomic Analysis and Functional Profiling. <i>JAMA Neurology</i> , <b>2016</b> , 73, 659-67	17.2	56
124	Resting-state functional reorganization of the rat limbic system following neuropathic injury. <i>Scientific Reports</i> , <b>2014</b> , 4, 6186	4.9	54
123	Brain and psychological determinants of placebo pill response in chronic pain patients. <i>Nature Communications</i> , <b>2018</b> , 9, 3397	17.4	52
122	Altered resting state neuromotor connectivity in men with chronic prostatitis/chronic pelvic pain syndrome: A MAPP: Research Network Neuroimaging Study. <i>NeuroImage: Clinical</i> , <b>2015</b> , 8, 493-502	5.3	51
121	Aging alters the multichemical networking profile of the human brain: an in vivo (1)H-MRS study of young versus middle-aged subjects. <i>Journal of Neurochemistry</i> , <b>2001</b> , 77, 292-303	6	49
120	The brain in chronic pain: clinical implications. <i>Pain Management</i> , <b>2011</b> , 1, 577-586	2.3	47
119	Unique Microstructural Changes in the Brain Associated with Urological Chronic Pelvic Pain Syndrome (UCPPS) Revealed by Diffusion Tensor MRI, Super-Resolution Track Density Imaging, and Statistical Parameter Mapping: A MAPP Network Neuroimaging Study. <i>PLoS ONE</i> , <b>2015</b> , 10, e0140250	3.7	44
118	Cortical responses to thermal pain depend on stimulus size: a functional MRI study. <i>Journal of Neurophysiology</i> , <b>2000</b> , 83, 3113-22	3.2	44
117	Brain White Matter Abnormalities in Female Interstitial Cystitis/Bladder Pain Syndrome: A MAPP Network Neuroimaging Study. <i>Journal of Urology</i> , <b>2015</b> , 194, 118-26	2.5	43
116	The posterior medial cortex in urologic chronic pelvic pain syndrome: detachment from default mode network-a resting-state study from the MAPP Research Network. <i>Pain</i> , <b>2015</b> , 156, 1755-1764	8	43
115	A dorsolateral spinothalamic pathway in cat. <i>Brain Research</i> , <b>1985</b> , 335, 188-93	3.7	43
114	Expression of background potassium channels in rat DRG is cell-specific and down-regulated in a neuropathic pain model. <i>Molecular and Cellular Neurosciences</i> , <b>2013</b> , 57, 1-9	4.8	41
113	Predictive dynamics of human pain perception. <i>PLoS Computational Biology</i> , <b>2012</b> , 8, e1002719	5	41

112	The characteristics of cyclical and non-cyclical mastalgia: a prospective study using a modified McGill Pain Questionnaire. <i>Breast Cancer Research and Treatment</i> , <b>2002</b> , 75, 147-57	4.4	41
111	Noise-induced tuning curve changes in mechanoreceptors. <i>Journal of Neurophysiology</i> , <b>1998</b> , 79, 1879-90	3.2	41
110	Expression of DNA methyltransferases in adult dorsal root ganglia is cell-type specific and up regulated in a rodent model of neuropathic pain. <i>Frontiers in Cellular Neuroscience</i> , <b>2014</b> , 8, 217	6.1	39
109	The role of the dorsal columns in neuropathic behavior: evidence for plasticity and non-specificity. <i>Neuroscience</i> , <b>2002</b> , 115, 403-13	3.9	38
108	Inhibition of dorsal-horn cell responses by stimulation of the Klliker-Fuse nucleus. <i>Journal of Neurosurgery</i> , <b>1986</b> , 65, 825-33	3.2	38
107	Novel method for functional brain imaging in awake minimally restrained rats. <i>Journal of Neurophysiology</i> , <b>2016</b> , 116, 61-80	3.2	38
106	Increased taste intensity perception exhibited by patients with chronic back pain. <i>Pain</i> , <b>2006</b> , 120, 124-130	3.0	37
105	Chronic neuropathic pain-like behavior and brain-borne IL-1 $\beta$ . <i>Annals of the New York Academy of Sciences</i> , <b>2012</b> , 1262, 101-7	6.5	36
104	Attenuation of neuropathic manifestations by local block of the activities of the ventrolateral orbito-frontal area in the rat. <i>Neuroscience</i> , <b>2003</b> , 120, 1093-104	3.9	36
103	Viscero-somatic neurons in the primary somatosensory cortex (SI) of the squirrel monkey. <i>Brain Research</i> , <b>1997</b> , 756, 297-300	3.7	35
102	Dissociating anxiety from pain: mapping the neuronal marker N-acetyl aspartate to perception distinguishes closely interrelated characteristics of chronic pain. <i>Molecular Psychiatry</i> , <b>2001</b> , 6, 256-8	15.1	35
101	Morphology of thalamocortical neurons projecting to the primary somatosensory cortex and their relationship to spinothalamic terminals in the squirrel monkey. <i>Journal of Comparative Neurology</i> , <b>1995</b> , 361, 1-24	3.4	34
100	Resting-state functional connectivity predicts longitudinal pain symptom change in urologic chronic pelvic pain syndrome: a MAPP network study. <i>Pain</i> , <b>2017</b> , 158, 1069-1082	8	33
99	Spared nerve injury rats exhibit thermal hyperalgesia on an automated operant dynamic thermal escape task. <i>Molecular Pain</i> , <b>2005</b> , 1, 18	3.4	33
98	Funicular course of catecholamine fibers innervating the lumbar spinal cord of the cat. <i>Brain Research</i> , <b>1985</b> , 336, 243-51	3.7	32
97	Factors associated with the development of chronic pain after surgery for breast cancer: a prospective cohort from a tertiary center in the United States. <i>Breast Journal</i> , <b>2014</b> , 20, 9-14	1.2	31
96	Hippocampal morphology mediates biased memories of chronic pain. <i>NeuroImage</i> , <b>2018</b> , 166, 86-98	7.9	30
95	Brain activity for tactile allodynia: a longitudinal awake rat functional magnetic resonance imaging study tracking emergence of neuropathic pain. <i>Pain</i> , <b>2017</b> , 158, 488-497	8	29

94	Lidocaine patch (5%) is no more potent than placebo in treating chronic back pain when tested in a randomised double blind placebo controlled brain imaging study. <i>Molecular Pain</i> , <b>2012</b> , 8, 29	3.4	29
93	Identifying directed links in large scale functional networks: application to brain fMRI. <i>BMC Cell Biology</i> , <b>2007</b> , 8 Suppl 1, S5		29
92	Spontaneous pain and brain activity in neuropathic pain: functional MRI and pharmacologic functional MRI studies. <i>Current Pain and Headache Reports</i> , <b>2007</b> , 11, 171-7	4.2	29
91	Funicular location of ascending axons of lamina I cells in the cat spinal cord. <i>Brain Research</i> , <b>1985</b> , 334, 160-4	3.7	29
90	How do morphological alterations caused by chronic pain distribute across the brain? A meta-analytic co-alteration study. <i>NeuroImage: Clinical</i> , <b>2018</b> , 18, 15-30	5.3	28
89	Deconstructing biomarkers for chronic pain: context- and hypothesis-dependent biomarker types in relation to chronic pain. <i>Pain</i> , <b>2019</b> , 160 Suppl 1, S37-S48	8	28
88	Brain white matter changes associated with urological chronic pelvic pain syndrome: multisite neuroimaging from a MAPP case-control study. <i>Pain</i> , <b>2016</b> , 157, 2782-2791	8	27
87	Reproducibility of structural, resting-state BOLD and DTI data between identical scanners. <i>PLoS ONE</i> , <b>2012</b> , 7, e47684	3.7	27
86	A dorsolateral spinothalamic tract in macaque monkey. <i>Pain</i> , <b>1989</b> , 37, 323-333	8	26
85	Representation of pain in the brain <b>2006</b> , 107-124		26
84	Risky monetary behavior in chronic back pain is associated with altered modular connectivity of the nucleus accumbens. <i>BMC Research Notes</i> , <b>2014</b> , 7, 739	2.3	25
83	Pain characteristic differences between subacute and chronic back pain. <i>Journal of Pain</i> , <b>2011</b> , 12, 792-800	3.0	25
82	Viscerosomatic interactions in the thalamic ventral posterolateral nucleus (VPL) of the squirrel monkey. <i>Brain Research</i> , <b>1998</b> , 787, 269-76	3.7	25
81	Segregation of nociceptive and non-nociceptive networks in the squirrel monkey somatosensory thalamus. <i>Journal of Neurophysiology</i> , <b>2000</b> , 84, 484-94	3.2	25
80	Spinothalamocortical inputs nonpreferentially innervate the superficial and deep cortical layers of SI. <i>Neuroscience Letters</i> , <b>1993</b> , 160, 209-13	3.3	25
79	Medial, intralaminar, and lateral terminations of lumbar spinothalamic tract neurons: a fluorescent double-label study. <i>Somatosensory &amp; Motor Research</i> , <b>1989</b> , 6, 285-308	1.2	24
78	Catecholamine varicosities in cat dorsal root ganglion and spinal ventral roots. <i>Brain Research</i> , <b>1983</b> , 261, 151-4	3.7	24
77	Multisite, multimodal neuroimaging of chronic urological pelvic pain: Methodology of the MAPP Research Network. <i>NeuroImage: Clinical</i> , <b>2016</b> , 12, 65-77	5.3	24



76	A brain signature for acute pain. <i>Trends in Cognitive Sciences</i> , <b>2013</b> , 17, 309-10	14	23
75	Prefrontal cortex and spinal cord mediated anti-neuropathy and analgesia induced by sarcosine, a glycine-T1 transporter inhibitor. <i>Pain</i> , <b>2009</b> , 145, 176-83	8	23
74	Mastalgia and breast cancer: a protective association?. <i>Cancer Detection and Prevention</i> , <b>2002</b> , 26, 192-6		23
73	Psychophysical properties of female genital sensation. <i>Pain</i> , <b>2013</b> , 154, 2277-2286	8	22
72	Chemical mapping of anxiety in the brain of healthy humans: an in vivo 1H-MRS study on the effects of sex, age, and brain region. <i>Human Brain Mapping</i> , <b>2000</b> , 11, 261-72	5.9	22
71	Smoking increases risk of pain chronification through shared corticostriatal circuitry. <i>Human Brain Mapping</i> , <b>2015</b> , 36, 683-94	5.9	20
70	Shared mechanisms between chronic pain and neurodegenerative disease. <i>Drug Discovery Today Disease Mechanisms</i> , <b>2006</b> , 3, 319-326		19
69	Immediate reorganization of the rat somatosensory thalamus after partial ligation of sciatic nerve. <i>Journal of Pain</i> , <b>2001</b> , 2, 220-8	5.2	18
68	Pain and somatosensory activation. <i>Trends in Neurosciences</i> , <b>1992</b> , 15, 250-3	13.3	18
67	The location of spinothalamic axons within spinal cord white matter in cat and squirrel monkey. <i>Somatosensory &amp; Motor Research</i> , <b>1991</b> , 8, 97-102	1.2	18
66	Cortical Pathophysiology of Chronic Pain. <i>Novartis Foundation Symposium</i> , <b>2008</b> , 239-255		17
65	Chemical network of the living human brain. Evidence of reorganization with aging. <i>Cognitive Brain Research</i> , <b>2001</b> , 11, 185-97		17
64	Inflammatory and neuropathic pain animals exhibit distinct responses to innocuous thermal and motoric challenges. <i>Molecular Pain</i> , <b>2006</b> , 2, 1	3.4	15
63	Temporal Factors Associated With Opioid Prescriptions for Patients With Pain Conditions in an Urban Emergency Department. <i>JAMA Network Open</i> , <b>2020</b> , 3, e200802	10.4	14
62	Opioid signaling in mast cells regulates injury responses associated with heterotopic ossification. <i>Inflammation Research</i> , <b>2014</b> , 63, 207-15	7.2	14
61	Functional Magnetic Resonance Imaging of Pain Consciousness: Cortical Networks of Pain Critically Depend on What is Implied by "Pain". <i>Current Review of Pain</i> , <b>1999</b> , 3, 308-315		14
60	Cortical pathophysiology of chronic pain. <i>Novartis Foundation Symposium</i> , <b>2004</b> , 261, 239-45; discussion 245-61		14
59	Translation and validation of Simplified Chinese version of the Pain Catastrophizing Scale in chronic pain patients: Education may matter. <i>Molecular Pain</i> , <b>2018</b> , 14, 1744806918755283	3.4	12

58	Morphology of subcortical brain nuclei is associated with autonomic function in healthy humans. <i>Human Brain Mapping</i> , <b>2018</b> , 39, 381-392	5.9	12
57	Profiles of precentral and postcentral cortical mean thicknesses in individual subjects over acute and subacute time-scales. <i>Cerebral Cortex</i> , <b>2010</b> , 20, 1513-22	5.1	12
56	Longitudinal MRI evaluations of human global cortical thickness over minutes to weeks. <i>Neuroscience Letters</i> , <b>2008</b> , 441, 145-8	3.3	12
55	A central mechanism enhances pain perception of noxious thermal stimulus changes. <i>Scientific Reports</i> , <b>2017</b> , 7, 3894	4.9	11
54	Nociception, Pain, Consciousness, and Society: A Plea for Constrained Use of Pain-related Terminologies. <i>Journal of Pain</i> , <b>2018</b> , 19, 1253-1255	5.2	11
53	Thalamically projecting cells of the lateral cervical nucleus in monkey. <i>Brain Research</i> , <b>1991</b> , 555, 10-8	3.7	11
52	Whole-brain functional network disruption in chronic pain with disk herniation. <i>Pain</i> , <b>2019</b> , 160, 2829-2840	4.0	11
51	Definitions of nociception, pain, and chronic pain with implications regarding science and society. <i>Neuroscience Letters</i> , <b>2019</b> , 702, 1-2	3.3	11
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