Apkar Vania Apkarian

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Limits of decoding mental states with fMRI.. *Cortex*, **2022**, 149, 101-122	3.8	0
200	On the Relationship Between Pain Variability and Relief in Randomized Clinical Trials.. *Frontiers in Pain Research*, **2022**, 3, 844309	1.4	0
199	Pancreatic Pain-Knowledge Gaps and Research Opportunities in Children and Adults: Summary of a National Institute of Diabetes and Digestive and Kidney Diseases Workshop. *Pancreas*, **2021**, 50, 906-915	2.6	1
198	What Is the Numerical Nature of Pain Relief?. *Frontiers in Pain Research*, **2021**, 2, 756680	1.4	0
197	Adaptive alterations in the mesoaccumbal network after peripheral nerve injury. *Pain*, **2021**, 162, 895-908	8	9
196	Hippocampus shape deformation: a potential diagnostic biomarker for chronic back pain in women. *Pain*, **2021**, 162, 1457-1467	8	6
195	Activation of the dorsal, but not the ventral, hippocampus relieves neuropathic pain in rodents. *Pain*, **2021**, 162, 2865-2880	8	7
194	Psychosocial, Functional, and Emotional Correlates of Long-Term Opioid Use in Patients with Chronic Back Pain: A Cross-Sectional Case-Control Study. *Pain and Therapy*, **2021**, 10, 691-709	3.6	1
193	Brain mechanisms of chronic pain: critical role of translational approach. *Translational Research*, **2021**, 238, 76-89	11	3
192	Reorganization of functional brain network architecture in chronic osteoarthritis pain. *Human Brain Mapping*, **2021**, 42, 1206-1222	5.9	11
191	Dissimilarity of functional connectivity uncovers the influence of participant motion in functional magnetic resonance imaging studies. *Human Brain Mapping*, **2021**, 42, 713-723	5.9	2
190	Quantitative language features identify placebo responders in chronic back pain. *Pain*, **2021**, 162, 1692-1704	8	0
189	Validating a biosignature-predicting placebo pill response in chronic pain in the settings of a randomized controlled trial. *Pain*, **2021**,	8	2
188	Sex-Specific Pharmacotherapy for Back Pain: A Proof-of-Concept Randomized Trial. *Pain and Therapy*, **2021**, 10, 1375-1400	3.6	2
187	The autonomic brain: Multi-dimensional generative hierarchical modelling of the autonomic connectome. *Cortex*, **2021**, 143, 164-179	3.8	2
186	Momentary pain assessments reveal benefits of endoscopic discectomy: a prospective cohort study. *Pain Reports*, **2021**, 6, e906	3.5	0
185	Temporal Factors Associated With Opioid Prescriptions for Patients With Pain Conditions in an Urban Emergency Department. *JAMA Network Open*, **2020**, 3, e200802	10.4	14

184	Benchmarking Residual Limb Pain and Phantom Limb Pain in Amputees through a Patient-reported Outcomes Survey. *Plastic and Reconstructive Surgery - Global Open*, **2020**, 8, e2977	1.2	1
183	Neural and Genetic Bases for Human Ability Traits. *Frontiers in Human Neuroscience*, **2020**, 14, 609170	3.3	0
182	Prognostics for pain in osteoarthritis: Do clinical measures predict pain after total joint replacement?. *PLoS ONE*, **2020**, 15, e0222370	3.7	6
181	Brain gray matter abnormalities in osteoarthritis pain: a cross-sectional evaluation. *Pain*, **2020**, 161, 2167-2178	6	
180	Prognostics for pain in osteoarthritis: Do clinical measures predict pain after total joint replacement? **2020**, 15, e0222370		
179	Prognostics for pain in osteoarthritis: Do clinical measures predict pain after total joint replacement? **2020**, 15, e0222370		
178	Prognostics for pain in osteoarthritis: Do clinical measures predict pain after total joint replacement? **2020**, 15, e0222370		
177	Prognostics for pain in osteoarthritis: Do clinical measures predict pain after total joint replacement? **2020**, 15, e0222370		
176	Targeted Muscle Reinnervation Treats Neuroma and Phantom Pain in Major Limb Amputees: A Randomized Clinical Trial. *Annals of Surgery*, **2019**, 270, 238-246	7.8	135
175	Reply To: Involuntary harms to the fight for newbornsQanalgesia, by Bellieni CV, Buonocore G. *Journal of Pain*, **2019**, 20, 368	5.2	
174	Reduced FosB expression in the rat nucleus accumbens has causal role in the neuropathic pain phenotype. *Neuroscience Letters*, **2019**, 702, 77-83	3.3	6
173	Identification of traits and functional connectivity-based neurotraits of chronic pain. *PLoS Biology*, **2019**, 17, e3000349	9.7	9
172	Deconstructing biomarkers for chronic pain: context- and hypothesis-dependent biomarker types in relation to chronic pain. *Pain*, **2019**, 160 Suppl 1, S37-S48	8	28
171	Whole-brain functional network disruption in chronic pain with disk herniation. *Pain*, **2019**, 160, 2829-2840	8	11
170	Definitions of nociception, pain, and chronic pain with implications regarding science and society. *Neuroscience Letters*, **2019**, 702, 1-2	3.3	11
169	Peripheral and central viewpoints of chronic pain, and translational implications. *Neuroscience Letters*, **2019**, 702, 3-5	3.3	8
168	Inferring distinct mechanisms in the absence of subjective differences: Placebo and centrally acting analgesic underlie unique brain adaptations. *Human Brain Mapping*, **2018**, 39, 2210-2223	5.9	10
167	Translation and validation of Simplified Chinese version of the Pain Catastrophizing Scale in chronic pain patients: Education may matter. *Molecular Pain*, **2018**, 14, 1744806918755283	3.4	12

166	How do morphological alterations caused by chronic pain distribute across the brain? A meta-analytic co-alteration study. *NeuroImage: Clinical*, **2018**, 18, 15-30	5.3	28
165	Morphology of subcortical brain nuclei is associated with autonomic function in healthy humans. *Human Brain Mapping*, **2018**, 39, 381-392	5.9	12
164	BOLD temporal variability differentiates wakefulness from anesthesia-induced unconsciousness. *Journal of Neurophysiology*, **2018**, 119, 834-848	3.2	8
163	Nociception, Pain, Consciousness, and Society: A Plea for Constrained Use of Pain-related Terminologies. *Journal of Pain*, **2018**, 19, 1253-1255	5.2	11
162	Hippocampal morphology mediates biased memories of chronic pain. *NeuroImage*, **2018**, 166, 86-98	7.9	30
161	Brain and psychological determinants of placebo pill response in chronic pain patients. *Nature Communications*, **2018**, 9, 3397	17.4	52
160	Resting-state functional connectivity predicts longitudinal pain symptom change in urologic chronic pelvic pain syndrome: a MAPP network study. *Pain*, **2017**, 158, 1069-1082	8	33
159	A central mechanism enhances pain perception of noxious thermal stimulus changes. *Scientific Reports*, **2017**, 7, 3894	4.9	11
158	Brain activity for tactile allodynia: a longitudinal awake rat functional magnetic resonance imaging study tracking emergence of neuropathic pain. *Pain*, **2017**, 158, 488-497	8	29
157	Brain signature and functional impact of centralized pain: a multidisciplinary approach to the study of chronic pelvic pain (MAPP) network study. *Pain*, **2017**, 158, 1979-1991	8	73
156	Global disruption of degree rank order: a hallmark of chronic pain. *Scientific Reports*, **2016**, 6, 34853	4.9	64
155	Brain white matter changes associated with urological chronic pelvic pain syndrome: multisite neuroimaging from a MAPP case-control study. *Pain*, **2016**, 157, 2782-2791	8	27
154	The Emotional Brain as a Predictor and Amplifier of Chronic Pain. *Journal of Dental Research*, **2016**, 95, 605-12	8.1	109
153	The indirect pathway of the nucleus accumbens shell amplifies neuropathic pain. *Nature Neuroscience*, **2016**, 19, 220-2	25.5	117
152	Brain Connectivity Predicts Placebo Response across Chronic Pain Clinical Trials. *PLoS Biology*, **2016**, 14, e1002570	9.7	96
151	Reply. *Pain*, **2016**, 157, 508-509	8	
150	Role of adult hippocampal neurogenesis in persistent pain. *Pain*, **2016**, 157, 418-428	8	68
149	Novel method for functional brain imaging in awake minimally restrained rats. *Journal of Neurophysiology*, **2016**, 116, 61-80	3.2	38

148	Identifying brain nociceptive information transmission in patients with chronic somatic pain. *Pain Reports*, **2016**, 1, e575	3.5	9
147	A randomized placebo-controlled pilot study of the efficacy and safety of D-cycloserine in people with chronic back pain. *Molecular Pain*, **2016**, 12,	3.4	5
146	Pharmacotherapy for Pain in a Family With Inherited Erythromelalgia Guided by Genomic Analysis and Functional Profiling. *JAMA Neurology*, **2016**, 73, 659-67	17.2	56
145	Corticolimbic anatomical characteristics predetermine risk for chronic pain. *Brain*, **2016**, 139, 1958-70	11.2	183
144	Multisite, multimodal neuroimaging of chronic urological pelvic pain: Methodology of the MAPP Research Network. *NeuroImage: Clinical*, **2016**, 12, 65-77	5.3	24
143	Brain White Matter Abnormalities in Female Interstitial Cystitis/Bladder Pain Syndrome: A MAPP Network Neuroimaging Study. *Journal of Urology*, **2015**, 194, 118-26	2.5	43
142	Pain: Acute and Chronic **2015**, 553-563		0
141	Nociception, Pain, Negative Moods, and Behavior Selection. *Neuron*, **2015**, 87, 474-91	13.9	319
140	Altered resting state neuromotor connectivity in men with chronic prostatitis/chronic pelvic pain syndrome: A MAPP: Research Network Neuroimaging Study. *NeuroImage: Clinical*, **2015**, 8, 493-502	5.3	51
139	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. *Journal of Urology*, **2015**, 193, 131-7	2.5	69
138	Smoking increases risk of pain chronification through shared corticostriatal circuitry. *Human Brain Mapping*, **2015**, 36, 683-94	5.9	20
137	The posterior medial cortex in urologic chronic pelvic pain syndrome: detachment from default mode network-a resting-state study from the MAPP Research Network. *Pain*, **2015**, 156, 1755-1764	8	43
136	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. *PLoS ONE*, **2015**, 10, e0140250	3.7	44
135	Role of nucleus accumbens in neuropathic pain: linked multi-scale evidence in the rat transitioning to neuropathic pain. *Pain*, **2014**, 155, 1128-1139	8	111
134	Opioid signaling in mast cells regulates injury responses associated with heterotopic ossification. *Inflammation Research*, **2014**, 63, 207-15	7.2	14
133	Alterations in resting state oscillations and connectivity in sensory and motor networks in women with interstitial cystitis/painful bladder syndrome. *Journal of Urology*, **2014**, 192, 947-55	2.5	76
132	Resting-sate functional reorganization of the rat limbic system following neuropathic injury. *Scientific Reports*, **2014**, 4, 6186	4.9	54
131	Functional reorganization of the default mode network across chronic pain conditions. *PLoS ONE*, **2014**, 9, e106133	3.7	287

130	Expression of DNA methyltransferases in adult dorsal root ganglia is cell-type specific and up regulated in a rodent model of neuropathic pain. *Frontiers in Cellular Neuroscience*, **2014**, 8, 217	6.1	39
129	Risky monetary behavior in chronic back pain is associated with altered modular connectivity of the nucleus accumbens. *BMC Research Notes*, **2014**, 7, 739	2.3	25
128	Chronic pain: the role of learning and brain plasticity. *Restorative Neurology and Neuroscience*, **2014**, 32, 129-39	2.8	88
127	Reorganization of hippocampal functional connectivity with transition to chronic back pain. *Journal of Neurophysiology*, **2014**, 111, 1065-76	3.2	110
126	Factors associated with the development of chronic pain after surgery for breast cancer: a prospective cohort from a tertiary center in the United States. *Breast Journal*, **2014**, 20, 9-14	1.2	31
125	Preliminary structural MRI based brain classification of chronic pelvic pain: A MAPP network study. *Pain*, **2014**, 155, 2502-2509	8	58
124	Expression of background potassium channels in rat DRG is cell-specific and down-regulated in a neuropathic pain model. *Molecular and Cellular Neurosciences*, **2013**, 57, 1-9	4.8	41
123	Neural mechanisms of pain and alcohol dependence. *Pharmacology Biochemistry and Behavior*, **2013** , 112, 34-41	3.9	63
122	Parceling human accumbens into putative core and shell dissociates encoding of values for reward and pain. *Journal of Neuroscience*, **2013**, 33, 16383-93	6.6	88
121	Brain white matter structural properties predict transition to chronic pain. *Pain*, **2013**, 154, 2160-2168	8	167
120	Psychophysical properties of female genital sensation. *Pain*, **2013**, 154, 2277-2286	8	22
119	Personalized medicine and opioid analgesic prescribing for chronic pain: opportunities and challenges. *Journal of Pain*, **2013**, 14, 103-13	5.2	81
118	Linking human brain local activity fluctuations to structural and functional network architectures. *NeuroImage*, **2013**, 73, 144-55	7.9	59
117	A brain signature for acute pain. *Trends in Cognitive Sciences*, **2013**, 17, 309-10	14	23
116	Shape shifting pain: chronification of back pain shifts brain representation from nociceptive to emotional circuits. *Brain*, **2013**, 136, 2751-68	11.2	414
115	Predicting transition to chronic pain. *Current Opinion in Neurology*, **2013**, 26, 360-7	7.1	123
114	Chronic neuropathic pain-like behavior and brain-borne IL-1 *Annals of the New York Academy of Sciences*, **2012**, 1262, 101-7	6.5	36
113	Abnormalities in hippocampal functioning with persistent pain. *Journal of Neuroscience*, **2012**, 32, 5747-56	6.6	284

112	A dynamic network perspective of chronic pain. *Neuroscience Letters*, **2012**, 520, 197-203	3.3	144
111	Brain networks predicting placebo analgesia in a clinical trial for chronic back pain. *Pain*, **2012**, 153, 2393-2402		86
110	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. *Molecular Pain*, **2012**, 8, 29	3.4	29
109	Corticostriatal functional connectivity predicts transition to chronic back pain. *Nature Neuroscience*, **2012**, 15, 1117-9	25.5	625
108	Predictive dynamics of human pain perception. *PLoS Computational Biology*, **2012**, 8, e1002719	5	41
107	Sparse regression analysis of task-relevant information distribution in the brain **2012**,		9
106	Reproducibility of structural, resting-state BOLD and DTI data between identical scanners. *PLoS ONE*, **2012**, 7, e47684	3.7	27
105	Brain activity for chronic knee osteoarthritis: dissociating evoked pain from spontaneous pain. *European Journal of Pain*, **2011**, 15, 843.e1-14	3.7	74
104	Brain functional and anatomical changes in chronic prostatitis/chronic pelvic pain syndrome. *Journal of Urology*, **2011**, 186, 117-24	2.5	87
103	Pain characteristic differences between subacute and chronic back pain. *Journal of Pain*, **2011**, 12, 792-800	3.2	25
102	Brain morphological signatures for chronic pain. *PLoS ONE*, **2011**, 6, e26010	3.7	242
101	Pain and the brain: specificity and plasticity of the brain in clinical chronic pain. *Pain*, **2011**, 152, S49-S64	8	457
100	Chronic neuropathic pain-like behavior correlates with IL-1β expression and disrupts cytokine interactions in the hippocampus. *Pain*, **2011**, 152, 2827-2835	8	90
99	The brain in chronic pain: clinical implications. *Pain Management*, **2011**, 1, 577-586	2.3	47
98	Anatomical and functional assemblies of brain BOLD oscillations. *Journal of Neuroscience*, **2011**, 31, 7910-6	6.6	186
97	The cortical rhythms of chronic back pain. *Journal of Neuroscience*, **2011**, 31, 13981-90	6.6	198
96	Profiles of precentral and postcentral cortical mean thicknesses in individual subjects over acute and subacute time-scales. *Cerebral Cortex*, **2010**, 20, 1513-22	5.1	12
95	Predicting value of pain and analgesia: nucleus accumbens response to noxious stimuli changes in the presence of chronic pain. *Neuron*, **2010**, 66, 149-60	13.9	371

94	Sparse Regression Models of Pain Perception. *Lecture Notes in Computer Science*, **2010**, 212-223	0.9	5
93	Morphological and functional reorganization of rat medial prefrontal cortex in neuropathic pain. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 2423-8	11.5	291
92	Parsing pain perception between nociceptive representation and magnitude estimation. *Journal of Neurophysiology*, **2009**, 101, 875-87	3.2	181
91	Prefrontal cortex and spinal cord mediated anti-neuropathy and analgesia induced by sarcosine, a glycine-T1 transporter inhibitor. *Pain*, **2009**, 145, 176-83	8	23
90	Towards a theory of chronic pain. *Progress in Neurobiology*, **2009**, 87, 81-97	10.9	545
89	Pain perception in relation to emotional learning. *Current Opinion in Neurobiology*, **2008**, 18, 464-8	7.6	120
88	A preliminary fMRI study of analgesic treatment in chronic back pain and knee osteoarthritis. *Molecular Pain*, **2008**, 4, 47	3.4	98
87	Longitudinal MRI evaluations of human global cortical thickness over minutes to weeks. *Neuroscience Letters*, **2008**, 441, 145-8	3.3	12
86	The brain in chronic CRPS pain: abnormal gray-white matter interactions in emotional and autonomic regions. *Neuron*, **2008**, 60, 570-81	13.9	372
85	Brain dynamics for perception of tactile allodynia (touch-induced pain) in postherpetic neuralgia. *Pain*, **2008**, 138, 641-656	8	68
84	Beyond feeling: chronic pain hurts the brain, disrupting the default-mode network dynamics. *Journal of Neuroscience*, **2008**, 28, 1398-403	6.6	569
83	Cortical Pathophysiology of Chronic Pain. *Novartis Foundation Symposium*, **2008**, 239-255		17
82	Aging alters the multichemical networking profile of the human brain: an in vivo1H-MRS study of young versus middle-aged subjects. *Journal of Neurochemistry*, **2008**, 77, 292-303	6	2
81	A difference characteristic for one-dimensional deterministic systems. *Communications in Nonlinear Science and Numerical Simulation*, **2007**, 12, 233-242	3.7	4
80	Identifying directed links in large scale functional networks: application to brain fMRI. *BMC Cell Biology*, **2007**, 8 Suppl 1, S5		29
79	Spontaneous pain and brain activity in neuropathic pain: functional MRI and pharmacologic functional MRI studies. *Current Pain and Headache Reports*, **2007**, 11, 171-7	4.2	29
78	Beneficial effects of hematopoietic growth factor therapy in chronic ischemic stroke in rats. *Stroke*, **2007**, 38, 2804-11	6.7	69
77	Neurological Effects of Chronic Pain. *Journal of Pain and Palliative Care Pharmacotherapy*, **2007**, 21, 59-61	0.8	6

76	Brain activity for spontaneous pain of postherpetic neuralgia and its modulation by lidocaine patch therapy. *Pain*, **2007**, 128, 88-100	8	134
75	D-cycloserine reduces neuropathic pain behavior through limbic NMDA-mediated circuitry. *Pain*, **2007**, 132, 108-23	8	85
74	Representaci□n del dolor en el cerebro **2007**, 107-124		
73	Chronic pain and the emotional brain: specific brain activity associated with spontaneous fluctuations of intensity of chronic back pain. *Journal of Neuroscience*, **2006**, 26, 12165-73	6.6	510
72	Inflammatory and neuropathic pain animals exhibit distinct responses to innocuous thermal and motoric challenges. *Molecular Pain*, **2006**, 2, 1	3.4	15
71	Shared mechanisms between chronic pain and neurodegenerative disease. *Drug Discovery Today Disease Mechanisms*, **2006**, 3, 319-326		19
70	Expression of IL-1beta in supraspinal brain regions in rats with neuropathic pain. *Neuroscience Letters*, **2006**, 407, 176-81	3.3	85
69	Increased taste intensity perception exhibited by patients with chronic back pain. *Pain*, **2006**, 120, 124-130	8	37
68	The shadows of pain. *Pain*, **2006**, 123, 221-222	8	9
67	Dynamics of pain: fractal dimension of temporal variability of spontaneous pain differentiates between pain States. *Journal of Neurophysiology*, **2006**, 95, 730-6	3.2	74
66	Representation of pain in the brain **2006**, 107-124		26
65	Scale-free brain functional networks. *Physical Review Letters*, **2005**, 94, 018102	7.4	1047
64	Spared nerve injury rats exhibit thermal hyperalgesia on an automated operant dynamic thermal escape task. *Molecular Pain*, **2005**, 1, 18	3.4	33
63	Human brain mechanisms of pain perception and regulation in health and disease. *European Journal of Pain*, **2005**, 9, 463-84	3.7	2053
62	Brain imaging findings in neuropathic pain. *Current Pain and Headache Reports*, **2005**, 9, 184-8	4.2	10
61	Chronic back pain is associated with decreased prefrontal and thalamic gray matter density. *Journal of Neuroscience*, **2004**, 24, 10410-5	6.6	993
60	Chronic pain patients are impaired on an emotional decision-making task. *Pain*, **2004**, 108, 129-36	8	376
59	Cortical pathophysiology of chronic pain. *Novartis Foundation Symposium*, **2004**, 261, 239-45; discussion 245-61		14

58	Attenuation of neuropathic manifestations by local block of the activities of the ventrolateral orbito-frontal area in the rat. *Neuroscience*, **2003**, 120, 1093-104	3.9	36
57	Peripheral inflammation increases the functional coherency of spinal responses to tactile but not nociceptive stimulation. *Journal of Neurophysiology*, **2002**, 88, 2096-103	3.2	5
56	Mastalgia and breast cancer: a protective association?. *Cancer Detection and Prevention*, **2002**, 26, 192-6		23
55	Multi-chemical networking profile of the living human brain: potential relevance to molecular studies of cognition and behavior in normal and diseased brain. *Journal of Neural Transmission*, **2002**, 109, 15-33	4.3	7
54	Brain chemistry reflects dual states of pain and anxiety in chronic low back pain. *Journal of Neural Transmission*, **2002**, 109, 1309-34	4.3	83
53	The characteristics of cyclical and non-cyclical mastalgia: a prospective study using a modified McGill Pain Questionnaire. *Breast Cancer Research and Treatment*, **2002**, 75, 147-57	4.4	41
52	The role of the dorsal columns in neuropathic behavior: evidence for plasticity and non-specificity. *Neuroscience*, **2002**, 115, 403-13	3.9	38
51	Aging alters regional multichemical profile of the human brain: an in vivo 1H-MRS study of young versus middle-aged subjects. *Journal of Neurochemistry*, **2001**, 76, 582-93	6	62
50	Dissociating anxiety from pain: mapping the neuronal marker N-acetyl aspartate to perception distinguishes closely interrelated characteristics of chronic pain. *Molecular Psychiatry*, **2001**, 6, 256-8	15.1	35
49	Aging alters the multichemical networking profile of the human brain: an in vivo (1)H-MRS study of young versus middle-aged subjects. *Journal of Neurochemistry*, **2001**, 77, 292-303	6	49
48	Immediate reorganization of the rat somatosensory thalamus after partial ligation of sciatic nerve. *Journal of Pain*, **2001**, 2, 220-8	5.2	18
47	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. *Neuroscience Letters*, **2001**, 299, 57-60	3.3	70
46	Prefrontal cortical hyperactivity in patients with sympathetically mediated chronic pain. *Neuroscience Letters*, **2001**, 311, 193-7	3.3	116
45	Chemical network of the living human brain. Evidence of reorganization with aging. *Cognitive Brain Research*, **2001**, 11, 185-97		17
44	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. *Human Brain Mapping*, **2000**, 11, 261-72	5.9	22
43	Cortical responses to thermal pain depend on stimulus size: a functional MRI study. *Journal of Neurophysiology*, **2000**, 83, 3113-22	3.2	44
42	Segregation of nociceptive and non-nociceptive networks in the squirrel monkey somatosensory thalamus. *Journal of Neurophysiology*, **2000**, 84, 484-94	3.2	25
41	Abnormal brain chemistry in chronic back pain: an in vivo proton magnetic resonance spectroscopy study. *Pain*, **2000**, 89, 7-18	8	213

40	Cortical representation of pain: functional characterization of nociceptive areas near the lateral sulcus. *Pain*, **2000**, 87, 113-119	8	211
39	Chemical heterogeneity of the living human brain: a proton MR spectroscopy study on the effects of sex, age, and brain region. *NeuroImage*, **2000**, 11, 554-63	7.9	79
38	Differentiating cortical areas related to pain perception from stimulus identification: temporal analysis of fMRI activity. *Journal of Neurophysiology*, **1999**, 81, 2956-63	3.2	95
37	Functional Magnetic Resonance Imaging of Pain Consciousness: Cortical Networks of Pain Critically Depend on What is Implied by "Pain". *Current Review of Pain*, **1999**, 3, 308-315		14
36	A comparative fMRI study of cortical representations for thermal painful, vibrotactile, and motor performance tasks. *NeuroImage*, **1999**, 10, 460-82	7.9	174
35	Viscerosomatic interactions in the thalamic ventral posterolateral nucleus (VPL) of the squirrel monkey. *Brain Research*, **1998**, 787, 269-76	3.7	25
34	Visceral and somatic pain: The gift that nobody wants and everybody needs. *Pain Forum*, **1998**, 7, 126-128		
33	Fingertip representation in the human somatosensory cortex: an fMRI study. *NeuroImage*, **1998**, 7, 261-83	7.9	160
32	Noise-induced tuning curve changes in mechanoreceptors. *Journal of Neurophysiology*, **1998**, 79, 1879-90	3.2	41
31	Viscero-somatic neurons in the primary somatosensory cortex (SI) of the squirrel monkey. *Brain Research*, **1997**, 756, 297-300	3.7	35
30	Primary somatosensory cortex and pain. *Pain Forum*, **1996**, 5, 188-191		5
29	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. *Journal of Comparative Neurology*, **1996**, 365, 640-58	3.4	84
28	Functional imaging of pain: new insights regarding the role of the cerebral cortex in human pain perception. *Seminars in Neuroscience*, **1995**, 7, 279-293		80
27	Morphology of thalamocortical neurons projecting to the primary somatosensory cortex and their relationship to spinothalamic terminals in the squirrel monkey. *Journal of Comparative Neurology*, **1995**, 361, 1-24	3.4	34
26	Heat-induced pain diminishes vibrotactile perception: a touch gate. *Somatosensory & Motor Research*, **1994**, 11, 259-67	1.2	132
25	Spinothalamocortical projections to the secondary somatosensory cortex (SII) in squirrel monkey. *Brain Research*, **1993**, 631, 241-6	3.7	90
24	Spinothalamocortical inputs nonpreferentially innervate the superficial and deep cortical layers of SI. *Neuroscience Letters*, **1993**, 160, 209-13	3.3	25
23	Modulated noisy biological dynamics: Three examples. *Journal of Statistical Physics*, **1993**, 70, 375-391	1.5	80

22	Pain and somatosensory activation. *Trends in Neurosciences*, **1992**, 15, 250-3	13.3	18
21	Persistent pain inhibits contralateral somatosensory cortical activity in humans. *Neuroscience Letters*, **1992**, 140, 141-7	3.3	118
20	Biotin-dextran: a sensitive anterograde tracer for neuroanatomic studies in rat and monkey. *Journal of Neuroscience Methods*, **1992**, 45, 35-40	3	205
19	Anatomic evidence of nociceptive inputs to primary somatosensory cortex: relationship between spinothalamic terminals and thalamocortical cells in squirrel monkeys. *Journal of Comparative Neurology*, **1991**, 308, 467-90	3.4	121
18	The location of spinothalamic axons within spinal cord white matter in cat and squirrel monkey. *Somatosensory & Motor Research*, **1991**, 8, 97-102	1.2	18
17	Thalamically projecting cells of the lateral cervical nucleus in monkey. *Brain Research*, **1991**, 555, 10-8	3.7	11
16	Primate spinothalamic pathways: I. A quantitative study of the cells of origin of the spinothalamic pathway. *Journal of Comparative Neurology*, **1989**, 288, 447-73	3.4	109
15	Primate spinothalamic pathways: II. The cells of origin of the dorsolateral and ventral spinothalamic pathways. *Journal of Comparative Neurology*, **1989**, 288, 474-92	3.4	92
14	Primate spinothalamic pathways: III. Thalamic terminations of the dorsolateral and ventral spinothalamic pathways. *Journal of Comparative Neurology*, **1989**, 288, 493-511	3.4	167
13	A cryogenic device for reversibly blocking transmission through small regions of the spinal cord white matter. *Journal of Neuroscience Methods*, **1989**, 29, 93-106	3	10
12	A dorsolateral spinothalamic tract in macaque monkey. *Pain*, **1989**, 37, 323-333	8	26
11	Medial, intralaminar, and lateral terminations of lumbar spinothalamic tract neurons: a fluorescent double-label study. *Somatosensory & Motor Research*, **1989**, 6, 285-308	1.2	24
10	Inhibition of dorsal-horn cell responses by stimulation of the K□liker-Fuse nucleus. *Journal of Neurosurgery*, **1986**, 65, 825-33	3.2	38
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2	Gender dependent pharmacotherapy for blocking transition to chronic back pain: a proof of concept randomized trial		1
1	Identification of traits and functional connectivity-based neuropsychotypes of chronic pain		2