Pierre Rainville

List of Publications by Year
in descending order

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133 papers	11,967 citations	47006 47 h-index	27406 106 g-index
140 all docs	140 docs citations	140 times ranked	9147 citing authors

#	Article	IF	Citations
1	Pain Affect Encoded in Human Anterior Cingulate But Not Somatosensory Cortex. Science, 1997, 277, 968-971.	12.6	2,427
2	Cortical Representation of the Sensory Dimension of Pain. Journal of Neurophysiology, 2001, 86, 402-411.	1.8	549
3	Brain mechanisms of pain affect and pain modulation. Current Opinion in Neurobiology, 2002, 12, 195-204.	4.2	542
4	Dissociation of sensory and affective dimensions of pain using hypnotic modulation. Pain, 1999, 82, 159-171.	4.2	432
5	Cerebral Mechanisms of Hypnotic Induction and Suggestion. Journal of Cognitive Neuroscience, 1999, 11, 110-125.	2.3	406
6	Basic emotions are associated with distinct patterns of cardiorespiratory activity. International Journal of Psychophysiology, 2006, 61, 5-18.	1.0	386
7	A biopsychosocial formulation of pain communication.. Psychological Bulletin, 2011, 137, 910-939.	6.1	364
8	Hypnosis Modulates Activity in Brain Structures Involved in the Regulation of Consciousness. Journal of Cognitive Neuroscience, 2002, 14, 887-901.	2.3	328
9	A Psychophysical Comparison of Sensory and Affective Responses to Four Modalities of Experimental Pain. Somatosensory & Motor Research, 1992, 9, 265-277.	0.9	325
10	Cortical thickness and pain sensitivity in zen meditators.. Emotion, 2010, 10, 43-53.	1.8	282
11	To what extent do we share the pain of others? Insight from the neural bases of pain empathy. Pain, 2006, 125, 5-9.	4.2	265
12	Pain-related emotions modulate experimental pain perception and autonomic responses. Pain, 2005, 118, 306-318.	4.2	260
13	Descending analgesia â€“ When the spine echoes what the brain expects. Pain, 2007, 130, 137-143.	4.2	243
14	A non-elaborative mental stance and decoupling of executive and pain-related cortices predicts low pain sensitivity in Zen meditators. Pain, 2011, 152, 150-156.	4.2	231
15	Cerebral and spinal modulation of pain by emotions. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 20900-20905.	7.1	214
16	The Corticocortical Structural Connectivity of the Human Insula. Cerebral Cortex, 2017, 27, 1216-1228.	2.9	210
17	The stress model of chronic pain: evidence from basal cortisol and hippocampal structure and function in humans. Brain, 2013, 136, 815-827.	7.6	208
18	Recognition and discrimination of prototypical dynamic expressions of pain and emotions. Pain, 2008, 135, 55-64.	4.2	203

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19	Emotional valence contributes to music-induced analgesia. Pain, 2008, 134, 140-147.	4.2	177
20	Pain Sensitivity and Analgesic Effects of Mindful States in Zen Meditators: A Cross-Sectional Study. Psychosomatic Medicine, 2009, 71, 106-114.	2.0	163
21	Role of tempo entrainment in psychophysiological differentiation of happy and sad music?. International Journal of Psychophysiology, 2008, 68, 17-26.	1.0	158
22	Cerebral and Cerebrospinal Processes Underlying Counterirritation Analgesia. Journal of Neuroscience, 2009, 29, 14236-14246.	3.6	142
23	Establishing a Link Between Heart Rate and Pain in Healthy Subjects: A Gender Effect. Journal of Pain, 2005, 6, 341-347.	1.4	137
24	Expectations predict chronic pain treatment outcomes. Pain, 2016, 157, 329-338.	4.2	128
25	Brain responses to dynamic facial expressions of pain. Pain, 2006, 126, 309-318.	4.2	127
26	Brain activity associated with the electrodermal reactivity to acute heat pain. NeuroImage, 2009, 45, 169-180.	4.2	105
27	Widespread hypersensitivity is related to altered pain inhibition processes in irritable bowel syndrome. Pain, 2010, 148, 49-58.	4.2	103
28	Hypnosis Phenomenology and the Neurobiology of Consciousness. International Journal of Clinical and Experimental Hypnosis, 2003, 51, 105-129.	1.8	98
29	White matter atlas of the human spinal cord with estimation of partial volume effect. NeuroImage, 2015, 119, 262-271.	4.2	94
30	A meta-analysis of neuroimaging studies on pain empathy: investigating the role of visual information and observersâ€™ perspective. Social Cognitive and Affective Neuroscience, 2019, 14, 789-813.	3.0	88
31	Acute Stress Contributes to Individual Differences in Pain and Pain-Related Brain Activity in Healthy and Chronic Pain Patients. Journal of Neuroscience, 2013, 33, 6826-6833.	3.6	80
32	Direct Comparison of Placebo Effects on Clinical and Experimental Pain. Clinical Journal of Pain, 2006, 22, 204-211.	1.9	79
33	Brain responses to facial expressions of pain: Emotional or motor mirroring?. NeuroImage, 2010, 53, 355-363.	4.2	78
34	Memory Traces of Pain in Human Cortex. Journal of Neuroscience, 2007, 27, 4612-4620.	3.6	75
35	Are both the sensory and the affective dimensions of pain encoded in the face?. Pain, 2012, 153, 350-358.	4.2	73
36	Cortical thickness, mental absorption and meditative practice: Possible implications for disorders of attention. Biological Psychology, 2013, 92, 275-281.	2.2	72

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37	Negative childhood experiences alter a prefrontalâ€insularâ€motor cortical network in healthy adults: A preliminary multimodal rsfMRIâ€fMRIâ€MRSâ€dMRI study. Human Brain Mapping, 2015, 36, 4622-4637.	3.6	70
38	Dissection of perceptual, motor and autonomic components of brain activity evoked by noxious stimulation. Pain, 2010, 149, 453-462.	4.2	65
39	Cerebral Regulation of Facial Expressions of Pain. Journal of Neuroscience, 2011, 31, 8730-8738.	3.6	65
40	Decreased pain inhibition in irritable bowel syndrome depends on altered descending modulation and higher-order brain processes. Neuroscience, 2011, 195, 166-175.	2.3	64
41	Neural processing of sensory and emotional-communicative information associated with the perception of vicarious pain. NeuroImage, 2012, 63, 54-62.	4.2	64
42	Characterization of cardiac-related noise in fMRI of the cervical spinal cord. Magnetic Resonance Imaging, 2009, 27, 300-310.	1.8	58
43	Thicker Posterior Insula Is Associated With Disease Duration inÂWomen With Irritable Bowel Syndrome (IBS) Whereas Thicker Orbitofrontal Cortex Predicts Reduced Pain Inhibition in Both IBSÂPatients and Controls. Journal of Pain, 2013, 14, 1217-1226.	1.4	56
44	Noxious and innocuous cold discrimination in humans: evidence for separate afferent channels. Pain, 1996, 68, 33-43.	4.2	55
45	Reduced pain inhibition is associated with reduced cognitive inhibition in healthy aging. Pain, 2014, 155, 494-502.	4.2	52
46	Representation of Acute and Persistent Pain in the Human CNS: Potential Implications for Chemical Intolerance. Annals of the New York Academy of Sciences, 2001, 933, 130-141.	3.8	50
47	The multilevel organization of vicarious pain responses: Effects of pain cues and empathy traits on spinal nociception and acute pain. Pain, 2011, 152, 1525-1531.	4.2	50
48	Rapid deterioration of pain sensory-discriminative information in short-term memory. Pain, 2004, 110, 605-615.	4.2	47
49	Sex differences in perceived pain are affected by an anxious brain. Pain, 2011, 152, 2065-2073.	4.2	47
50	Spinal modulation of nociception by music. European Journal of Pain, 2012, 16, 870-877.	2.8	47
51	Mindfulness induction and cognition: A systematic review and meta-analysis. Consciousness and Cognition, 2020, 84, 102991.	1.5	44
52	The relation between catastrophizing and facial responsiveness to pain. Pain, 2008, 140, 127-134.	4.2	41
53	The modulation of pain by attention and emotion: A dissociation of perceptual and spinal nociceptive processes. European Journal of Pain, 2011, 15, 641.e1-10.	2.8	41
54	Integrating experientialâ€“phenomenological methods and neuroscience to study neural mechanisms of pain and consciousness. Consciousness and Cognition, 2002, 11, 593-608.	1.5	37

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55	Effects of insular stimulation on thermal nociception. European Journal of Pain, 2016, 20, 800-810.	2.8	37
56	Hypnotic analgesia intervention during first-trimester pregnancy termination: an open randomized trial. American Journal of Obstetrics and Gynecology, 2008, 199, 469.e1-469.e9.	1.3	36
57	The Role of Gender in the Interaction Between Self-Pain and the Perception of Pain in Others. Journal of Pain, 2012, 13, 695-703.	1.4	36
58	Expectations Modulate Heterotopic Noxious Counter-Stimulation Analgesia. Journal of Pain, 2013, 14, 114-125.	1.4	36
59	Dispositional empathy modulates vicarious effects of dynamic pain expressions on spinal nociception, facial responses and acute pain. European Journal of Neuroscience, 2012, 35, 271-278.	2.6	35
60	Operant Conditioning of Facial Displays of Pain. Psychosomatic Medicine, 2011, 73, 422-431.	2.0	33
61	Effects of stress and relaxation on capsaicin-induced pain. Journal of Pain, 2001, 2, 160-170.	1.4	32
62	The use of hypnosis to improve pain management during voluntary interruption of pregnancy: an open randomized preliminary study. Contraception, 2007, 75, 52-58.	1.5	32
63	Pain modulation induced by respiration: Phase and frequency effects. Neuroscience, 2013, 252, 501-511.	2.3	32
64	Top-down attentional modulation of analgesia induced by heterotopic noxious counterstimulation. Pain, 2012, 153, 1755-1762.	4.2	31
65	Serial processing in primary and secondary somatosensory cortex: A DCM analysis of human fMRI data in response to innocuous and noxious electrical stimulation. Neuroscience Letters, 2014, 577, 83-88.	2.1	26
66	Efficient information for recognizing pain in facial expressions. European Journal of Pain, 2015, 19, 852-860.	2.8	24
67	Hypnosis to manage musculoskeletal and neuropathic chronic pain: A systematic review and meta-analysis. Neuroscience and Biobehavioral Reviews, 2022, 135, 104591.	6.1	24
68	Functional brain imaging of placebo analgesia: Methodological challenges and recommendations. Pain, 2006, 121, 177-180.	4.2	23
69	Hypnosis and the analgesic effect of suggestions. Pain, 2008, 134, 1-2.	4.2	23
70	Changes in Rapid Eye Movement Sleep Associated with Placebo-Induced Expectations and Analgesia. Journal of Neuroscience, 2009, 29, 11745-11752.	3.6	23
71	Afterâ€effects of cognitive control on pain. European Journal of Pain, 2013, 17, 1225-1233.	2.8	23
72	Reduction of physiological noise with independent component analysis improves the detection of nociceptive responses with fMRI of the human spinal cord. NeuroImage, 2012, 63, 245-252.	4.2	22

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73	Immersive virtual reality vs. nonâ€immersive distraction for pain management of children during bone pins and sutures removal: A randomized clinical trial protocol. Journal of Advanced Nursing, 2021, 77, 439-447.	3.3	22
74	GABAA Receptors Predict Aversion-Related Brain Responses: An fMRI-PET Investigation in Healthy Humans. Neuropsychopharmacology, 2013, 38, 1438-1450.	5.4	21
75	Long-range temporal correlations in the brain distinguish conscious wakefulness from induced unconsciousness. NeuroImage, 2018, 179, 30-39.	4.2	21
76	Mirroring Pain in the Brain: Emotional Expression versus Motor Imitation. PLoS ONE, 2015, 10, e0107526.	2.5	21
77	Test-retest reliability of myelin imaging in the human spinal cord: Measurement errors versus region- and aging-induced variations. PLoS ONE, 2018, 13, e0189944.	2.5	20
78	Multiple faces of pain: effects of chronic pain on the brain regulation of facial expression. Pain, 2016, 157, 1819-1830.	4.2	19
79	Differential Effects of Cognitive Demand on Human Cortical Activation Associated With Vibrotactile Stimulation. Journal of Neurophysiology, 2009, 102, 1623-1631.	1.8	18
80	Changes in Spinal Reflex Excitability Associated With Motor Sequence Learning. Journal of Neurophysiology, 2010, 103, 2675-2683.	1.8	18
81	Distinct fMRI patterns colocalized in the cingulate cortex underlie the after-effects of cognitive control on pain. NeuroImage, 2020, 217, 116898.	4.2	18
82	Psychophysical study of noxious and innocuous cold discrimination in monkey. Experimental Brain Research, 1999, 125, 28-34.	1.5	17
83	Is temporal summation of pain and spinal nociception altered during normal aging?. Pain, 2015, 156, 1945-1953.	4.2	17
84	Sensitivity to Movement-Evoked Pain and Multi-Site Pain are Associated with Work-Disability Following Whiplash Injury: A Cross-Sectional Study. Journal of Occupational Rehabilitation, 2017, 27, 413-421.	2.2	17
85	Hypnosis and meditation: Similar experiential changes and shared brain mechanisms. Medical Hypotheses, 2005, 65, 625-626.	1.5	16
86	Hypnotizability and Opinions About Hypnosis in a Clinical Trial for the Hypnotic Control of Pain and Anxiety During Pregnancy Termination. International Journal of Clinical and Experimental Hypnosis, 2009, 58, 82-101.	1.8	16
87	Selective REM Sleep Deprivation Improves Expectation-Related Placebo Analgesia. PLoS ONE, 2015, 10, e0144992.	2.5	16
88	Learned expectations and uncertainty facilitate pain during classical conditioning. Pain, 2017, 158, 1528-1537.	4.2	16
89	Inhibition of Pain and Pain-Related Brain Activity by Heterotopic Noxious Counter-Stimulation and Selective Attention in Chronic Non-Specific Low Back Pain. Neuroscience, 2018, 387, 201-213.	2.3	16
90	Attention effects on vicarious modulation of nociception and pain. Pain, 2014, 155, 2033-2039.	4.2	15

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91	Attenuation of Sensory and Affective Responses to Heat Pain: Evidence for Contralateral Mechanisms. Journal of Neurophysiology, 2005, 94, 3509-3515.	1.8	13
92	Hypnosis Program Effectiveness in a 12-week Home Care Intervention To Manage Chronic Pain in Elderly Women: A Pilot Trial. Clinical Therapeutics, 2020, 42, 221-229.	2.5	13
93	Keeping an eye on pain expression in primary somatosensory cortex. NeuroImage, 2020, 217, 116885.	4.2	13
94	Ipsilateral cortical representation of tactile and painful information in acallosal and callosotomized subjects. Neuropsychologia, 2008, 46, 2274-2279.	1.6	12
95	Remembering the dynamic changes in pain intensity and unpleasantness: A psychophysical study. Pain, 2014, 155, 581-590.	4.2	12
96	Effects of cardiopulmonary baroreceptor activation on pain may be moderated by risk for hypertension. Biological Psychology, 2009, 82, 195-197.	2.2	11
97	Reduced Fear-Conditioned Pain Modulation in Experienced Meditators: A Preliminary Study. Psychosomatic Medicine, 2018, 80, 799-806.	2.0	11
98	Validation of an index of Sensitivity to Movement-Evoked Pain in patients with whiplash injuries. Pain Reports, 2018, 3, e661.	2.7	10
99	Multicenter assessment of quantitative sensory testing (QST) for the detection of neuropathic-like pain responses using the topical capsaicin model. Canadian Journal of Pain, 2018, 2, 266-279.	1.7	10
100	Hypnotic Automaticity in the Brain at Rest: An Arterial Spin Labelling Study. International Journal of Clinical and Experimental Hypnosis, 2019, 67, 512-542.	1.8	10
101	Multimodal Interventions Including Rehabilitation Exercise for Older Adults With Chronic Musculoskeletal Pain: A Systematic Review and Meta-analyses of Randomized Controlled Trials. Journal of Geriatric Physical Therapy, 2022, 45, 34-49.	1.1	10
102	Women's Views Regarding Hypnosis for the Control of Surgical Pain in the Context of a Randomized Clinical Trial. Journal of Women's Health, 2009, 18, 1441-1447.	3.3	8
103	Self-regulation of acute experimental pain with and without biofeedback using spinal nociceptive responses. Neuroscience, 2013, 231, 102-110.	2.3	8
104	The neural signature of the decision value of future pain. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	8
105	The Two Sides of Pain Communication: Effects of Pain Expressiveness on Vicarious Brain Responses Revealed in Chronic Back Pain Patients. Journal of Pain, 2013, 14, 1407-1415.	1.4	7
106	A Refined Examination of the Facial Cues Contributing to Vicarious Effects on Self-Pain and Spinal Responses. Journal of Pain, 2013, 14, 1475-1484.	1.4	7
107	Placebo analgesia persists during sleep: An experimental study. Progress in Neuro-Psychopharmacology and Biological Psychiatry, 2018, 85, 33-38.	4.8	7
108	Cross-sectional and Prospective Correlates of Recovery Expectancies in the Rehabilitation of Whiplash Injury. Clinical Journal of Pain, 2018, 34, 306-312.	1.9	7

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109	Long-Term Efficacy of a Home-Care Hypnosis Program in Elderly Persons Suffering From Chronic Pain: A 12-Month Follow-Up. Pain Management Nursing, 2022, 23, 330-337.	0.9	7
110	Hypnotic Induction and Therapeutic Suggestions in First-Trimester Pregnancy Termination. International Journal of Clinical and Experimental Hypnosis, 2008, 56, 214-228.	1.8	6
111	Brain processing of the temporal dimension of acute pain in short-term memory. Pain, 2017, 158, 2001-2011.	4.2	6
112	The Role of Sleep in Learning Placebo Effects. International Review of Neurobiology, 2018, 139, 321-355.	2.0	6
113	Relief Expectation and Sleep. Reviews in the Neurosciences, 2010, 21, 381-95.	2.9	5
114	Chronic Central Pain Among Community-Dwelling Survivors of Moderate-to-Severe Traumatic Brain Injury: A Quantitative Sensory Testing Study. Biological Research for Nursing, 2019, 21, 519-531.	1.9	5
115	ReprÃ©sentation cÃ©rÃ©brale de l'expÃ©rience subjective de la douleur chez l'homme.. Medecine/Sciences, 2000, 16, 519.	0.2	5
116	The delayed reproduction of longÂtime intervals defined by innocuous thermal sensation. Experimental Brain Research, 2016, 234, 1095-1104.	1.5	4
117	Sex, Age, Symptoms and Illness Duration and Their Relation with Gyrification Index in Schizophrenia. Clinical Schizophrenia and Related Psychoses, 2018, 12, 57-68.	1.4	4
118	The Stressful Characteristics of Pain That Drive You NUTS: A Qualitative Exploration of a Stress Model to Understand the Chronic Pain Experience. Pain Medicine, 2021, 22, 1095-1108.	1.9	4
119	Effect of personalized musical intervention on burden of care in dental implant surgery: A pilot randomized controlled trial. Journal of Dentistry, 2022, 120, 104091.	4.1	4
120	Spinal and supraspinal modulation of pain responses by hypnosis, suggestions, and distraction. American Journal of Clinical Hypnosis, 2021, 63, 329-354.	0.6	3
121	Feasibility and acceptability of hypnosis-derived communication administered by trained nurses to improve patient well-being during outpatient chemotherapy: a pilot-controlled trial. Supportive Care in Cancer, 2022, 30, 765-773.	2.2	3
122	Brain Responses to Hypnotic Verbal Suggestions Predict Pain Modulation. Frontiers in Pain Research, 2021, 2, 757384.	2.0	3
123	Effects of Brief Mindfulness Interventions on the Interference Induced by Experimental Heat Pain on Cognition in Healthy Individuals. Frontiers in Pain Research, 2021, 2, 673027.	2.0	2
124	Hypnotic analgesia. , 2006, , 329-338.		2
125	Hypnosis and music interventions for anxiety, pain, sleep and well-being in palliative care: systematic review and meta-analysis. BMJ Supportive and Palliative Care, 2023, 13, e503-e514.	1.6	2
126	The Effect of Age and Pain on Quantitative Sensory Testing Measurements After Moderate-to-Severe Traumatic Brain Injury: Preliminary Findings. Biological Research for Nursing, 2020, 22, 341-353.	1.9	1

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127	Stress and Pain Before, During and After the First Wave of the COVID-19 Pandemic: An Exploratory Longitudinal Mixed Methods Study. Frontiers in Pain Research, 2021, 2, 725893.	2.0	1
128	Development of a Mixed Hypnosis and Music Intervention Program for the Management of Pain, Anxiety, and Wellbeing in End-of-Life Palliative Care. Frontiers in Pain Research, 0, 3, .	2.0	1
129	Measurement, time-stamping, and analysis of electrodermal activity in fMRI. , 2002, 4683, 470.		0
130	Cerebral regulation of autonomic and nociceptive reflexes induced by electrical stimulation of the sural nerve in fMRI. Autonomic Neuroscience: Basic and Clinical, 2007, 135, 78-79.	2.8	0
131	Response to the â€˜â€˜Letter to the Editor of Painâ€™â€™ by Prof. Mick Sullivan. Pain, 2008, 140, 521-522.	4.2	0
132	ReducciÃ³n del dolor mediante hipnosis. , 2007, , 335-344.		0
133	ChapitreÂ3. Traduire lesÂchangements psychothÃ©rapeutiques enÂtermesÂneuropsychologiques. , 2011, , 56-74.		0