

# Ronald Melzack

## List of Publications by Citations

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145  
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148  
g-index

148  
ext. papers

24,455  
ext. citations

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L-index

#	Paper	IF	Citations
145	The McGill Pain Questionnaire: major properties and scoring methods. <i>Pain</i> , <b>1975</b> , 1, 277-299	8	4626
144	The short-form McGill Pain Questionnaire. <i>Pain</i> , <b>1987</b> , 30, 191-197	8	2919
143	Contribution of central neuroplasticity to pathological pain: review of clinical and experimental evidence. <i>Pain</i> , <b>1993</b> , 52, 259-285	8	1452
142	From the gate to the neuromatrix. <i>Pain</i> , <b>1999</b> , Suppl 6, S121-S126	8	637
141	Phantom limbs and the concept of a neuromatrix. <i>Trends in Neurosciences</i> , <b>1990</b> , 13, 88-92	13.3	516
140	Measurement of pain. <i>Surgical Clinics of North America</i> , <b>1999</b> , 79, 231-52	4	507
139	Central nervous system plasticity in the tonic pain response to subcutaneous formalin injection. <i>Brain Research</i> , <b>1990</b> , 535, 155-8	3.7	450
138	Trigger points and acupuncture points for pain: correlations and implications. <i>Pain</i> , <b>1977</b> , 3, 3-23	8	398
137	Pain: an overview. <i>Lancet, The</i> , <b>1999</b> , 353, 1607-9	40	397
136	Development and initial validation of an expanded and revised version of the Short-form McGill Pain Questionnaire (SF-MPQ-2). <i>Pain</i> , <b>2009</b> , 144, 35-42	8	385
135	Pain and the Neuromatrix in the Brain. <i>Journal of Dental Education</i> , <b>2001</b> , 65, 1378-1382	1.6	382
134	The Charles Bonnet syndrome: phantom visual images. <i>Perception</i> , <b>1991</b> , 20, 809-25	1.2	321
133	Pain memories in phantom limbs: review and clinical observations. <i>Pain</i> , <b>1990</b> , 43, 319-336	8	297
132	Prolonged relief of pain by brief, intense transcutaneous somatic stimulation. <i>Pain</i> , <b>1975</b> , 1, 357-373	8	297
131	The tragedy of needless pain. <i>Scientific American</i> , <b>1990</b> , 262, 27-33	0.5	279
130	Influence of psychological factors on postoperative pain, mood and analgesic requirements. <i>Pain</i> , <b>1986</b> , 24, 331-342	8	259
129	The myth of painless childbirth (the John J. Bonica lecture). <i>Pain</i> , <b>1984</b> , 19, 321-337	8	248

128	Chronic pain in elderly people. <i>Pain</i> , <b>1997</b> , 70, 3-14	8	236
127	Phantom body pain in paraplegics: evidence for a central "pattern generating mechanism" for pain. <i>Pain</i> , <b>1978</b> , 4, 195-210	8	233
126	Classification of clinical pain descriptions by multiple group discriminant analysis. <i>Experimental Neurology</i> , <b>1976</b> , 51, 480-7	5.7	231
125	Comparisons between patients and nurses: assessment of pain and medication efficacy in severe burn injuries. <i>Pain</i> , <b>1990</b> , 40, 143-152	8	230
124	Central neuroplasticity and pathological pain. <i>Annals of the New York Academy of Sciences</i> , <b>2001</b> , 933, 157-74	6.5	225
123	The McGill pain questionnaire: from description to measurement. <i>Anesthesiology</i> , <b>2005</b> , 103, 199-202	4.3	219
122	Evolution of the neuromatrix theory of pain. The Prithvi Raj Lecture: presented at the third World Congress of World Institute of Pain, Barcelona 2004. <i>Pain Practice</i> , <b>2005</b> , 5, 85-94	3	210
121	Nausea and vomiting during pregnancy: A prospective study of its frequency, intensity, and patterns of change. <i>American Journal of Obstetrics and Gynecology</i> , <b>2000</b> , 182, 931-7	6.4	205
120	Deafferentation and chronic pain in animals: an evaluation of evidence suggesting autotomy is related to pain. <i>Pain</i> , <b>1986</b> , 26, 61-84	8	190
119	The role of corticotropin-releasing factor in pain and analgesia. <i>Pain</i> , <b>2000</b> , 84, 1-12	8	180
118	The formalin test: a validation of the weighted-scores method of behavioural pain rating. <i>Pain</i> , <b>1993</b> , 54, 43-50	8	175
117	Meeting Abstracts Phantom Limb Pain. <i>Anesthesiology</i> , <b>1971</b> , 35, 409-419	4.3	175
116	Cutaneous hyperalgesia: contributions of the peripheral and central nervous systems to the increase in pain sensitivity after injury. <i>Brain Research</i> , <b>1987</b> , 404, 95-106	3.7	172
115	The bee venom test: a new tonic-pain test. <i>Pain</i> , <b>1996</b> , 66, 271-7	8	170
114	The effects of early experience on the response to pain. <i>Journal of Comparative and Physiological Psychology</i> , <b>1957</b> , 50, 155-61		170
113	Phantom limbs, the self and the brain (the D. O. Hebb Memorial Lecture).. <i>Canadian Psychology</i> , <b>1989</b> , 30, 1-16	3.2	167
112	Acute pain in an emergency clinic: latency of onset and descriptor patterns related to different injuries. <i>Pain</i> , <b>1982</b> , 14, 33-43	8	157
111	Transcutaneous electrical stimulation and acupuncture: Comparison of treatment for low-back pain. <i>Pain</i> , <b>1976</b> , 2, 141-148	8	156

110	Morphine analgesia in tail-flick and formalin pain tests is mediated by different neural systems. <i>Experimental Neurology</i> , <b>1982</b> , 75, 644-51	5.7	147
109	The pain of burns: characteristics and correlates. <i>Journal of Trauma</i> , <b>1989</b> , 29, 1531-9		144
108	Pain modulation by adrenergic agents and morphine as measured by three pain tests. <i>Life Sciences</i> , <b>1980</b> , 26, 1247-59	6.8	140
107	Central neural mediators of secondary hyperalgesia following heat injury in rats: neuropeptides and excitatory amino acids. <i>Neuroscience Letters</i> , <b>1991</b> , 131, 71-4	3.3	136
106	Self-regulation of pain: the use of alpha-feedback and hypnotic training for the control of chronic pain. <i>Experimental Neurology</i> , <b>1975</b> , 46, 452-69	5.7	136
105	Brainstem lesions dissociate neural mechanisms of morphine analgesia in different kinds of pain. <i>Brain Research</i> , <b>1982</b> , 251, 149-55	3.7	126
104	Gate control theory. <i>Pain Forum</i> , <b>1996</b> , 5, 128-138		124
103	Pain modulation by 5-hydroxytryptaminergic agents and morphine as measured by three pain tests. <i>Experimental Neurology</i> , <b>1980</b> , 69, 260-70	5.7	107
102	Effects of discrete brainstem lesions in cats on perception of noxious stimulation. <i>Journal of Neurophysiology</i> , <b>1958</b> , 21, 353-67	3.2	106
101	Injury prior to neurectomy alters the pattern of autotomy in rats. Behavioral evidence of central neural plasticity. <i>Anesthesiology</i> , <b>1991</b> , 75, 876-83	4.3	102
100	Increased pain sensitivity following heat injury involves a central mechanism. <i>Behavioural Brain Research</i> , <b>1985</b> , 15, 259-62	3.4	96
99	Analgesia produced by lidocaine microinjection into the dentate gyrus. <i>Pain</i> , <b>1992</b> , 49, 105-112	8	95
98	Pain on a surgical ward: a survey of the duration and intensity of pain and the effectiveness of medication. <i>Pain</i> , <b>1987</b> , 29, 67-72	8	95
97	The role of compensation in chronic pain: analysis using a new method of scoring the McGill Pain Questionnaire. <i>Pain</i> , <b>1985</b> , 23, 101-112	8	95
96	Properties of complex hallucinations associated with deficits in vision. <i>Perception</i> , <b>1996</b> , 25, 715-26	1.2	94
95	Pain: past, present and future. <i>Canadian Journal of Experimental Psychology</i> , <b>1993</b> , 47, 615-29	0.8	94
94	Trigeminal neuralgia and atypical facial pain: use of the McGill Pain Questionnaire for discrimination and diagnosis. <i>Pain</i> , <b>1986</b> , 27, 297-302	8	93
93	Analgesia produced by injection of lidocaine into the anterior cingulum bundle of the rat. <i>Pain</i> , <b>1989</b> , 39, 213-219	8	92

92	Auricular transcutaneous electrical nerve stimulation (TENS) reduces phantom limb pain. <i>Journal of Pain and Symptom Management</i> , <b>1991</b> , 6, 73-83	4.8	90
91	Blocking NMDA receptors in the hippocampal dentate gyrus with AP5 produces analgesia in the formalin pain test. <i>Experimental Neurology</i> , <b>2001</b> , 172, 92-9	5.7	87
90	Temporal processes of formalin pain: differential role of the cingulum bundle, fornix pathway and medial bulboreticular formation. <i>Pain</i> , <b>1992</b> , 49, 257-271	8	87
89	Evolution of pain theories. <i>International Anesthesiology Clinics</i> , <b>1970</b> , 8, 3-34	0.6	84
88	Effects of peripheral antisympathetic treatments in the tail-flick, formalin and autotomy tests. <i>Pain</i> , <b>1984</b> , 18, 13-23	8	80
87	Pain of first-trimester abortion: a study of psychosocial and medical predictors. <i>Pain</i> , <b>1989</b> , 36, 339-350	8	78
86	Pain-signalling systems in the dorsal and ventral spinal cord. <i>Pain</i> , <b>1977</b> , 4, 97-132	8	75
85	Morphine injected into the habenula and dorsal posteromedial thalamus produces analgesia in the formalin test. <i>Brain Research</i> , <b>1985</b> , 359, 131-9	3.7	73
84	Pain. <i>Wiley Interdisciplinary Reviews: Cognitive Science</i> , <b>2013</b> , 4, 1-15	4.5	66
83	Potential of opioid analgesia by psychostimulant drugs: a review. <i>Journal of Pain and Symptom Management</i> , <b>1998</b> , 16, 245-53	4.8	66
82	Age-related differences in the qualities but not the intensity of chronic pain. <i>Pain</i> , <b>2003</b> , 104, 597-608	8	63
81	Labor pain: effect of maternal position on front and back pain. <i>Journal of Pain and Symptom Management</i> , <b>1991</b> , 6, 476-80	4.8	61
80	Stimulation-produced analgesia in rats: assessment by two pain tests and correlation with self-stimulation. <i>Experimental Neurology</i> , <b>1980</b> , 68, 295-309	5.7	60
79	Stimulation-produced analgesia: evidence for somatotopic organization in the midbrain. <i>Brain Research</i> , <b>1982</b> , 251, 301-11	3.7	60
78	Habenular stimulation produces analgesia in the formalin test. <i>Neuroscience Letters</i> , <b>1986</b> , 70, 165-9	3.3	57
77	Self-mutilation after dorsal rhizotomy in rats: effects of prior pain and pattern of root lesions. <i>Experimental Neurology</i> , <b>1979</b> , 65, 412-21	5.7	54
76	Morphine analgesia and tolerance in the tail-flick and formalin tests: dose-response relationships. <i>Pharmacology Biochemistry and Behavior</i> , <b>1982</b> , 17, 1213-9	3.9	54
75	Phantom limbs and the body schema. <i>Canadian Anaesthetists Society Journal</i> , <b>1974</b> , 21, 267-74		51

74	Unilateral analgesia produced by intraventricular morphine. <i>Brain Research</i> , <b>1984</b> , 303, 277-87	3.7	49
73	Low-back pain during labor. <i>American Journal of Obstetrics and Gynecology</i> , <b>1987</b> , 156, 901-5	6.4	47
72	Responses evoked at the cortex by tooth stimulation. <i>American Journal of Physiology</i> , <b>1957</b> , 190, 570-4		47
71	Analgesia produced by normal doses of opioid antagonists alone and in combination with morphine. <i>Pain</i> , <b>1989</b> , 36, 103-109	8	46
70	The genesis of emotional behavior; an experimental study of the dog. <i>Journal of Comparative and Physiological Psychology</i> , <b>1954</b> , 47, 166-8		45
69	Age Differences in the Quality of Chronic Pain: A Preliminary Study. <i>Pain Research and Management</i> , <b>1997</b> , 2, 157-162	2.6	44
68	The effects of nitrous oxide on responses evoked in the brain stem by tooth stimulation. <i>Anesthesiology</i> , <b>1957</b> , 18, 183-95	4.3	44
67	Effects of cholinergic and dopaminergic agents on pain and morphine analgesia measured by three pain tests. <i>Experimental Neurology</i> , <b>1983</b> , 81, 167-76	5.7	42
66	The psychological assessment of candidates for spinal cord stimulation for chronic pain management. <i>Pain Practice</i> , <b>2004</b> , 4, 204-21	3	41
65	Electrical stimulation of the cingulum bundle and surrounding cortical tissue reduces formalin-test pain in the rat. <i>Brain Research</i> , <b>1996</b> , 743, 116-23	3.7	40
64	Systemic administration of naloxone produces analgesia in BALB/c mice in the formalin pain test. <i>Neuroscience Letters</i> , <b>1988</b> , 84, 103-7	3.3	40
63	Analgesia produced by stimulation of limbic structures and its relation to epileptiform after-discharges. <i>Experimental Neurology</i> , <b>1978</b> , 62, 720-34	5.7	40
62	Age differences in the response to the formalin test in rats. <i>Neurobiology of Aging</i> , <b>1999</b> , 20, 699-707	5.6	39
61	Pain mechanisms: A new theory. <i>Pain Forum</i> , <b>1996</b> , 5, 3-11		36
60	Labour pain: correlations with menstrual pain and acute low-back pain before and during pregnancy. <i>Pain</i> , <b>1989</b> , 36, 225-229	8	36
59	Acute and chronic pain in hemophilia. <i>Pain</i> , <b>1987</b> , 31, 317-331	8	36
58	The habenula and pain: repeated electrical stimulation produces prolonged analgesia but lesions have no effect on formalin pain or morphine analgesia. <i>Behavioural Brain Research</i> , <b>1993</b> , 54, 171-8	3.4	35
57	Referred sensations in chronic pain patients. <i>Pain</i> , <b>1987</b> , 28, 51-59	8	35

56	Effects of early experience on social behavior. <i>Canadian Journal of Psychology</i> , <b>1956</b> , 10, 82-90		34
55	Validation of the short-form McGill pain questionnaire-2 in younger and older people with cancer pain. <i>Journal of Pain</i> , <b>2014</b> , 15, 756-70	5.2	33
54	Amitriptyline produces analgesia in the formalin pain test. <i>Experimental Neurology</i> , <b>1992</b> , 117, 94-6	5.7	33
53	An association between phantom limb sensations and stump skin conductance during transcutaneous electrical nerve stimulation (TENS) applied to the contralateral leg: a case study. <i>Pain</i> , <b>1989</b> , 36, 367-377	8	31
52	On the Survival of Mallard Ducks After "Habituation" To the Hawk-Shaped Figure 1). <i>Behaviour</i> , <b>1961</b> , 17, 9-16	1.4	31
51	Visual hallucinations and mental state. A study of 14 Charles Bonnet syndrome hallucinators. <i>Journal of Nervous and Mental Disease</i> , <b>1993</b> , 181, 639-43	1.8	29
50	Pain assessment in adult patients <b>2006</b> , 291-304		28
49	Multiple phantom limbs in a child. <i>Cortex</i> , <b>1992</b> , 28, 503-7	3.8	27
48	Procedures which increase acute pain sensitivity also increase autotomy. <i>Experimental Neurology</i> , <b>1986</b> , 92, 713-22	5.7	26
47	Auriculotherapy Fails to Relieve Chronic Pain. <i>JAMA - Journal of the American Medical Association</i> , <b>1984</b> , 251, 1041	27.4	25
46	Single nerve capsaicin: effects on pain and morphine analgesia in the formalin and foot-flick tests. <i>Brain Research</i> , <b>1984</b> , 295, 77-84	3.7	25
45	Inflammation-susceptible Lewis rats show less sensitivity than resistant Fischer rats in the formalin inflammatory pain test and with repeated thermal testing. <i>Journal of Neurophysiology</i> , <b>2006</b> , 95, 2889-97 <sup>2</sup>		24
44	The role of early experience in emotional arousal. <i>Annals of the New York Academy of Sciences</i> , <b>1969</b> , 159, 721-30	6.5	23
43	Measurement of Pain. <i>Anesthesiology Clinics</i> , <b>1992</b> , 10, 229-246		22
42	Psychostimulant drugs potentiate morphine analgesia in the formalin test. <i>Journal of Pain and Symptom Management</i> , <b>1998</b> , 16, 230-9	4.8	21
41	Pain in the 21st Century: The Neuromatrix and Beyond <b>2006</b> , 129-148		21
40	Behavioral evidence in rats for a peptidergic-noradrenergic interaction in cutaneous sensory and vascular function. <i>Neuroscience Letters</i> , <b>1984</b> , 47, 113-8	3.3	20
39	The role of the cingulum bundle in self-mutilation following peripheral neurectomy in the rat. <i>Experimental Neurology</i> , <b>1991</b> , 111, 131-4	5.7	19

38	Autotomy after nerve sections in the rat is influenced by tonic descending inhibition from locus coeruleus. <i>Neuroscience Letters</i> , <b>1986</b> , 67, 82-6	3.3	19
37	Restraint reduces formalin-test pain but the effect is not influenced by lesions of the hypothalamic paraventricular nucleus. <i>Experimental Neurology</i> , <b>1996</b> , 139, 299-305	5.7	18
36	Analgesic and aversive effects of naloxone in BALB/c mice. <i>Experimental Neurology</i> , <b>1992</b> , 117, 216-8	5.7	18
35	Long-term patterns of morphine dosage and pain intensity among cancer patients. <i>Journal of Pain and Palliative Care Pharmacotherapy</i> , <b>1999</b> , 14, 35-47		17
34	Pain in psychotic patients. <i>Experimental Neurology</i> , <b>1976</b> , 52, 535-43	5.7	17
33	Measurement of nausea. <i>Journal of Pain and Symptom Management</i> , <b>1989</b> , 4, 157-60	4.8	16
32	Analgesia induced by morphine microinjection into the lateral hypothalamus of the rat. <i>Experimental Neurology</i> , <b>1995</b> , 134, 277-80	5.7	15
31	Re: Discriminative capacity of the McGill Pain Questionnaire. <i>Pain</i> , <b>1985</b> , 23, 201-203	8	15
30	Lack of Evidence for Age Differences in Pain Beliefs. <i>Pain Research and Management</i> , <b>1997</b> , 2, 19-28	2.6	13
29	The Assessment of Pain in the Elderly <b>1997</b> , 69-96		12
28	The bee venom test: comparisons with the formalin test with injection of different venoms. <i>Pain</i> , <b>2000</b> , 84, 111-112	8	9
27	Hypophysectomy produces analgesia and paraventricular lesions have no effect on formalin-induced pain. <i>Experimental Neurology</i> , <b>1995</b> , 135, 74-9	5.7	7
26	Pain in the elderly <b>2006</b> , 1169-1179		7
25	Perspectives on Phylogenetic Evolution of Pain Expression <b>1983</b> , 151-160		6
24	Acute amitriptyline treatment produces non-opioid-mediated analgesia in the formalin and bee venom tests. <i>Pathophysiology</i> , <b>1996</b> , 3, 227-231	1.8	5
23	Positive intrasurgical suggestion fails to affect postsurgical pain. <i>Journal of Pain and Symptom Management</i> , <b>1996</b> , 11, 103-7	4.8	5
22	Autotomy following sciatic and saphenous nerve sections: sparing of the medial toes after treatment of the sciatic nerve with capsaicin. <i>Experimental Neurology</i> , <b>1986</b> , 91, 355-65	5.7	5
21	Pain theory: exceptions to the rule. <i>Behavioral and Brain Sciences</i> , <b>1980</b> , 3, 313-313	0.9	5



20	Pain and parallel processing. <i>Behavioral and Brain Sciences</i> , <b>1985</b> , 8, 67-68	0.9	3
19	Sensory modulation of pain. <i>International Rehabilitation Medicine</i> , <b>1979</b> , 1, 111-5		3
18	Introduction: the pain revolution <b>2003</b> , 1-9		2
17	Pain and the brain. <i>APS Journal</i> , <b>1993</b> , 2, 172-174		2
16	Dissociable effects of lidocaine injection into medial versus lateral thalamus in tail-flick and formalin pain tests. <i>Pathophysiology</i> , <b>1994</b> , 1, 205-214	1.8	2
15	Hyperstimulation Analgesia. <i>Clinics in Anaesthesiology</i> , <b>1985</b> , 3, 81-92		2
14	The Neuromatrix in Behavioral Medicine <b>2014</b> , 759-774		1
13	Acupuncture and Transcutaneous Electrical Nerve Stimulation. <i>Acupuncture in Medicine</i> , <b>1986</b> , 3, 8-10	1.9	1
12	PAIN MECHANISMS: RECENT RESEARCH. <i>Acupuncture and Electro-Therapeutics Research</i> , <b>1978</b> , 3, 109-110.	2	1
11	A Conceptual Framework for Understanding Pain in the Human <b>2007</b> , 3-10		1
10	Evaluaci3n del dolor en pacientes adultos <b>2007</b> , 295-308		
9	Amputation and phantom limb pain <b>2001</b> , 548-550		
8	Comments on Detweiler et al. (Pain 63 (1995) 251-254). <i>Pain</i> , <b>1996</b> , 67, 220-223	8	
7	Pain, Assessment of <b>2003</b> , 716-722		
6	Mm <b>2004</b> , 160-172		
5	Gg <b>2004</b> , 118-124		
4	El dolor en los ancianos <b>2007</b> , 1201-1212		
3	Recent Physiological Studies of Pain. <i>Current Management of Pain</i> , <b>1991</b> , 19-32		

2 Pain Theories1

1 McGill Pain Questionnaire 2022, 1-4