

# Kathleen A Sluka

## List of Publications by Citations

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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.

211  
papers

13,507  
citations

64  
h-index

111  
g-index

235  
ext. papers

16,310  
ext. citations

4.4  
avg, IF

6.7  
L-index

| #   | Paper   | IF   | Citations |
|-----|---|------|-----------|
| 211 | Management of Postoperative Pain: A Clinical Practice Guideline From the American Pain Society, the American Society of Regional Anesthesia and Pain Medicine, and the American Society of AnesthesiologistsRCommittee on Regional Anesthesia, Executive Committee, and Administrative Council. <i>Journal of Pain</i> , <b>2016</b> , 17, 131-57 | 5.2  | 1375      |
| 210 | The revised International Association for the Study of Pain definition of pain: concepts, challenges, and compromises. <i>Pain</i> , <b>2020</b> , 161, 1976-1982   | 8    | 555       |
| 209 | The DRASIC cation channel contributes to the detection of cutaneous touch and acid stimuli in mice. <i>Neuron</i> , <b>2001</b> , 32, 1071-83   | 13.9 | 512       |
| 208 | Transcutaneous electrical nerve stimulation: basic science mechanisms and clinical effectiveness. <i>Journal of Pain</i> , <b>2003</b> , 4, 109-21  | 5.2  | 438       |
| 207 | Unilateral intramuscular injections of acidic saline produce a bilateral, long-lasting hyperalgesia. <i>Muscle and Nerve</i> , <b>2001</b> , 24, 37-46  | 3.4  | 406       |
| 206 | Chronic hyperalgesia induced by repeated acid injections in muscle is abolished by the loss of ASIC3, but not ASIC1. <i>Pain</i> , <b>2003</b> , 106, 229-239   | 8    | 358       |
| 205 | Effectiveness of transcutaneous electrical nerve stimulation for treatment of hyperalgesia and pain. <i>Current Rheumatology Reports</i> , <b>2008</b> , 10, 492-9  | 4.9  | 292       |
| 204 | Neurobiology of fibromyalgia and chronic widespread pain. <i>Neuroscience</i> , <b>2016</b> , 338, 114-129  | 3.9  | 282       |
| 203 | Do we need a third mechanistic descriptor for chronic pain states?. <i>Pain</i> , <b>2016</b> , 157, 1382-1386  | 8    | 251       |
| 202 | An overview of animal models of pain: disease models and outcome measures. <i>Journal of Pain</i> , <b>2013</b> , 14, 1255-69   | 5.2  | 230       |
| 201 | Unique role of dystroglycan in peripheral nerve myelination, nodal structure, and sodium channel stabilization. <i>Neuron</i> , <b>2003</b> , 38, 747-58  | 13.9 | 208       |
| 200 | The initial effects of knee joint mobilization on osteoarthritic hyperalgesia. <i>Manual Therapy</i> , <b>2007</b> , 12, 109-18   |      | 196       |
| 199 | Using TENS for pain control: the state of the evidence. <i>Pain Management</i> , <b>2014</b> , 4, 197-209   | 2.3  | 186       |
| 198 | Unilateral carrageenan injection into muscle or joint induces chronic bilateral hyperalgesia in rats. <i>Pain</i> , <b>2003</b> , 104, 567-577  | 8    | 178       |
| 197 | Core competencies for pain management: results of an interprofessional consensus summit. <i>Pain Medicine</i> , <b>2013</b> , 14, 971-81  | 2.8  | 167       |
| 196 | ASIC3 in muscle mediates mechanical, but not heat, hyperalgesia associated with muscle inflammation. <i>Pain</i> , <b>2007</b> , 129, 102-12  | 8    | 149       |
| 195 | Do dorsal root reflexes augment peripheral inflammation?. <i>NeuroReport</i> , <b>1994</b> , 5, 821-4   | 1.7  | 147       |

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| 194 | Release of GABA and activation of GABA(A) in the spinal cord mediates the effects of TENS in rats. <i>Brain Research</i> , <b>2007</b> , 1136, 43-50   | 3.7 | 124 |
| 193 | Nonpharmacological treatments for musculoskeletal pain. <i>Clinical Journal of Pain</i> , <b>2001</b> , 17, 33-46  | 3.5 | 123 |
| 192 | Hypoalgesia in response to transcutaneous electrical nerve stimulation (TENS) depends on stimulation intensity. <i>Journal of Pain</i> , <b>2011</b> , 12, 929-35  | 5.2 | 122 |
| 191 | Transcutaneous electrical nerve stimulation reduces pain, fatigue and hyperalgesia while restoring central inhibition in primary fibromyalgia. <i>Pain</i> , <b>2013</b> , 154, 2554-2562  | 8   | 121 |
| 190 | ASIC1 and ASIC3 play different roles in the development of Hyperalgesia after inflammatory muscle injury. <i>Journal of Pain</i> , <b>2010</b> , 11, 210-8   | 5.2 | 121 |
| 189 | Does exercise increase or decrease pain? Central mechanisms underlying these two phenomena. <i>Journal of Physiology</i> , <b>2017</b> , 595, 4141-4150  | 3.9 | 118 |
| 188 | Regular physical activity prevents development of chronic pain and activation of central neurons. <i>Journal of Applied Physiology</i> , <b>2013</b> , 114, 725-33   | 3.7 | 110 |
| 187 | Deep tissue afferents, but not cutaneous afferents, mediate transcutaneous electrical nerve stimulation-Induced antihyperalgesia. <i>Journal of Pain</i> , <b>2005</b> , 6, 673-80   | 5.2 | 110 |
| 186 | Effect of varying frequency, intensity, and pulse duration of transcutaneous electrical nerve stimulation on primary hyperalgesia in inflamed rats. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2000</b> , 81, 984-90 | 2.8 | 108 |
| 185 | Experimental muscle pain impairs descending inhibition. <i>Pain</i> , <b>2008</b> , 140, 465-471   | 8   | 107 |
| 184 | Phosphorylation of CREB and mechanical hyperalgesia is reversed by blockade of the cAMP pathway in a time-dependent manner after repeated intramuscular acid injections. <i>Journal of Neuroscience</i> , <b>2003</b> , 23, 5437-45    | 6.6 | 107 |
| 183 | Predictors of postoperative movement and resting pain following total knee replacement. <i>Pain</i> , <b>2012</b> , 153, 2192-2203   | 8   | 105 |
| 182 | A pain research agenda for the 21st century. <i>Journal of Pain</i> , <b>2014</b> , 15, 1203-14  | 5.2 | 102 |
| 181 | What makes transcutaneous electrical nerve stimulation work? Making sense of the mixed results in the clinical literature. <i>Physical Therapy</i> , <b>2013</b> , 93, 1397-402  | 3.3 | 99  |
| 180 | Central sensitization and changes in conditioned pain modulation in people with chronic nonspecific low back pain: a case-control study. <i>Experimental Brain Research</i> , <b>2015</b> , 233, 2391-9                                | 2.3 | 96  |
| 179 | Transcutaneous electrical nerve stimulation for acute pain. <i>The Cochrane Library</i> , <b>2015</b> , CD006142   | 5.2 | 94  |
| 178 | Effects of transcutaneous electrical nerve stimulation on pain, pain sensitivity, and function in people with knee osteoarthritis: a randomized controlled trial. <i>Physical Therapy</i> , <b>2012</b> , 92, 898-910                  | 3.3 | 94  |
| 177 | A new transient sham TENS device allows for investigator blinding while delivering a true placebo treatment. <i>Journal of Pain</i> , <b>2010</b> , 11, 230-8  | 5.2 | 93  |

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|-----|--|-----|----|
| 176 | Spinal 5-HT(2) and 5-HT(3) receptors mediate low, but not high, frequency TENS-induced antihyperalgesia in rats. <i>Pain</i> , <b>2003</b> , 105, 205-13   | 8   | 92 |
| 175 | Chronic muscle pain induced by repeated acid Injection is reversed by spinally administered mu- and delta-, but not kappa-, opioid receptor agonists. <i>Journal of Pharmacology and Experimental Therapeutics</i> , <b>2002</b> , 302, 1146-50      | 4.7 | 89 |
| 174 | Low-intensity exercise reverses chronic muscle pain in the rat in a naloxone-dependent manner. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2005</b> , 86, 1736-40   | 2.8 | 87 |
| 173 | IL-10 cytokine released from M2 macrophages is crucial for analgesic and anti-inflammatory effects of acupuncture in a model of inflammatory muscle pain. <i>Molecular Neurobiology</i> , <b>2015</b> , 51, 19-31                                    | 6.2 | 86 |
| 172 | Regular physical activity prevents chronic pain by altering resident muscle macrophage phenotype and increasing interleukin-10 in mice. <i>Pain</i> , <b>2016</b> , 157, 70-79   | 8   | 86 |
| 171 | Transcutaneous electrical nerve stimulation (TENS) reduces chronic hyperalgesia induced by muscle inflammation. <i>Pain</i> , <b>2006</b> , 120, 182-187   | 8   | 86 |
| 170 | Adjusting pulse amplitude during transcutaneous electrical nerve stimulation (TENS) application produces greater hypoalgesia. <i>Journal of Pain</i> , <b>2011</b> , 12, 581-90  | 5.2 | 85 |
| 169 | Central mechanisms in the maintenance of chronic widespread noninflammatory muscle pain. <i>Current Pain and Headache Reports</i> , <b>2008</b> , 12, 338-43   | 4.2 | 85 |
| 168 | A Mechanism-Based Approach to Physical Therapist Management of Pain. <i>Physical Therapy</i> , <b>2018</b> , 98, 302-314   | 3.3 | 84 |
| 167 | Research Gaps in Practice Guidelines for Acute Postoperative Pain Management in Adults: Findings From a Review of the Evidence for an American Pain Society Clinical Practice Guideline. <i>Journal of Pain</i> , <b>2016</b> , 17, 158-66           | 5.2 | 83 |
| 166 | High-frequency, but not low-frequency, transcutaneous electrical nerve stimulation reduces aspartate and glutamate release in the spinal cord dorsal horn. <i>Journal of Neurochemistry</i> , <b>2005</b> , 95, 1794-801                             | 6   | 83 |
| 165 | Prevalence of gluteus medius weakness in people with chronic low back pain compared to healthy controls. <i>European Spine Journal</i> , <b>2016</b> , 25, 1258-65   | 2.7 | 82 |
| 164 | Development of opioid tolerance with repeated transcutaneous electrical nerve stimulation administration. <i>Pain</i> , <b>2003</b> , 102, 195-201   | 8   | 82 |
| 163 | Acid-sensing ion channel 3 expression in mouse knee joint afferents and effects of carrageenan-induced arthritis. <i>Journal of Pain</i> , <b>2009</b> , 10, 336-42  | 5.2 | 81 |
| 162 | Blockade of calcium channels can prevent the onset of secondary hyperalgesia and allodynia induced by intradermal injection of capsaicin in rats. <i>Pain</i> , <b>1997</b> , 71, 157-64   | 8   | 81 |
| 161 | Increased release of serotonin in the spinal cord during low, but not high, frequency transcutaneous electric nerve stimulation in rats with joint inflammation. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2006</b> , 87, 1137-40 | 2.8 | 81 |
| 160 | Impact of COVID-19 on a Pragmatic, Cluster Randomized Clinical Trial for Fibromyalgia. <i>Journal of Pain</i> , <b>2021</b> , 22, 586  | 5.2 | 78 |
| 159 | An investigation of the development of analgesic tolerance to TENS in humans. <i>Pain</i> , <b>2011</b> , 152, 335-3428  |     | 76 |

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|-----|---|------|----|
| 158 | Pregabalin reduces muscle and cutaneous hyperalgesia in two models of chronic muscle pain in rats. <i>Journal of Pain</i> , <b>2007</b> , 8, 422-9  | 5.2  | 76 |
| 157 | Effects of NMDA and non-NMDA ionotropic glutamate receptor antagonists on the development and maintenance of hyperalgesia induced by repeated intramuscular injection of acidic saline. <i>Pain</i> , <b>2002</b> , 98, 69-78 | 8    | 75 |
| 156 | Role of brainstem serotonin in analgesia produced by low-intensity exercise on neuropathic pain after sciatic nerve injury in mice. <i>Pain</i> , <b>2015</b> , 156, 2595-2606  | 8    | 73 |
| 155 | Animal models of fibromyalgia. <i>Arthritis Research and Therapy</i> , <b>2013</b> , 15, 222  | 5.7  | 71 |
| 154 | Acidic buffer induced muscle pain evokes referred pain and mechanical hyperalgesia in humans. <i>Pain</i> , <b>2008</b> , 140, 254-264  | 8    | 71 |
| 153 | Knee joint mobilization reduces secondary mechanical hyperalgesia induced by capsaicin injection into the ankle joint. <i>European Journal of Pain</i> , <b>2001</b> , 5, 81-7  | 3.7  | 71 |
| 152 | Transcutaneous electrical nerve stimulation for the control of pain during rehabilitation after total knee arthroplasty: A randomized, blinded, placebo-controlled trial. <i>Pain</i> , <b>2014</b> , 155, 2599-2611          | 8    | 69 |
| 151 | Transition to chronic pain: opportunities for novel therapeutics. <i>Nature Reviews Neuroscience</i> , <b>2018</b> , 19, 383-384  | 13.5 | 69 |
| 150 | Preoperative predictors of pain following total knee arthroplasty. <i>Journal of Arthroplasty</i> , <b>2014</b> , 29, 1383-4  | 4.4  | 67 |
| 149 | Transcutaneous electrical nerve stimulation for acute pain. <i>Cochrane Database of Systematic Reviews</i> , <b>2009</b> , CD006142   |      | 65 |
| 148 | Massage reduces pain perception and hyperalgesia in experimental muscle pain: a randomized, controlled trial. <i>Journal of Pain</i> , <b>2008</b> , 9, 714-21  | 5.2  | 64 |
| 147 | Transcutaneous electrical nerve stimulation activates peripherally located alpha-2A adrenergic receptors. <i>Pain</i> , <b>2005</b> , 115, 364-373  | 8    | 64 |
| 146 | Characterization of a method for measuring primary hyperalgesia of deep somatic tissue. <i>Journal of Pain</i> , <b>2005</b> , 6, 41-7  | 5.2  | 62 |
| 145 | Low frequency TENS is less effective than high frequency TENS at reducing inflammation-induced hyperalgesia in morphine-tolerant rats. <i>European Journal of Pain</i> , <b>2000</b> , 4, 185-93                              | 3.7  | 62 |
| 144 | Interleukin-4 mediates the analgesia produced by low-intensity exercise in mice with neuropathic pain. <i>Pain</i> , <b>2018</b> , 159, 437-450   | 8    | 62 |
| 143 | Exercise-induced pain and analgesia? Underlying mechanisms and clinical translation. <i>Pain</i> , <b>2018</b> , 159 Suppl 1, S91-S97   | 8    | 62 |
| 142 | Excitatory amino acid release in the spinal cord caused by plantar incision in the rat. <i>Pain</i> , <b>2002</b> , 100, 65-76  | 7.6  | 61 |
| 141 | Examining sex differences in knee pain: the multicenter osteoarthritis study. <i>Osteoarthritis and Cartilage</i> , <b>2014</b> , 22, 1100-6  | 6.2  | 60 |

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|-----|---|-----|----|
| 140 | Women with knee osteoarthritis have more pain and poorer function than men, but similar physical activity prior to total knee replacement. <i>Biology of Sex Differences</i> , <b>2011</b> , 2, 12  | 9.3 | 60 |
| 139 | Hypoalgesic effect of the transcutaneous electrical nerve stimulation following inguinal herniorrhaphy: a randomized, controlled trial. <i>Journal of Pain</i> , <b>2008</b> , 9, 623-9   | 5.2 | 60 |
| 138 | Acid-sensing ion channels: A new target for pain and CNS diseases. <i>Current Opinion in Drug Discovery &amp; Development</i> , <b>2009</b> , 12, 693-704   |     | 60 |
| 137 | Spinal cord stimulation reduces mechanical hyperalgesia and glial cell activation in animals with neuropathic pain. <i>Anesthesia and Analgesia</i> , <b>2014</b> , 118, 464-472  | 3.9 | 59 |
| 136 | Activation of the cAMP transduction cascade contributes to the mechanical hyperalgesia and allodynia induced by intradermal injection of capsaicin. <i>British Journal of Pharmacology</i> , <b>1997</b> , 122, 1165-73   | 8.6 | 59 |
| 135 | Selective targeting of ASIC3 using artificial miRNAs inhibits primary and secondary hyperalgesia after muscle inflammation. <i>Pain</i> , <b>2011</b> , 152, 2348-2356  | 8   | 57 |
| 134 | Activation of NMDA receptors in the brainstem, rostral ventromedial medulla, and nucleus reticularis gigantocellularis mediates mechanical hyperalgesia produced by repeated intramuscular injections of acidic saline in rats. <i>Journal of Pain</i> , <b>2010</b> , 11, 378-87 | 5.2 | 56 |
| 133 | Joint mobilization reduces hyperalgesia associated with chronic muscle and joint inflammation in rats. <i>Journal of Pain</i> , <b>2006</b> , 7, 602-7  | 5.2 | 56 |
| 132 | High and low frequency TENS reduce postoperative pain intensity after laparoscopic tubal ligation: a randomized controlled trial. <i>Clinical Journal of Pain</i> , <b>2009</b> , 25, 12-9  | 3.5 | 54 |
| 131 | Fatiguing exercise enhances hyperalgesia to muscle inflammation. <i>Pain</i> , <b>2010</b> , 148, 188-197   | 8   | 52 |
| 130 | Modulation between high- and low-frequency transcutaneous electric nerve stimulation delays the development of analgesic tolerance in arthritic rats. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>2008</b> , 89, 754-60  | 2.8 | 50 |
| 129 | Genetic reduction of chronic muscle pain in mice lacking calcium/calmodulin-stimulated adenylyl cyclases. <i>Molecular Pain</i> , <b>2006</b> , 2, 7  | 3.4 | 48 |
| 128 | Reduction of pain-related behaviors with either cold or heat treatment in an animal model of acute arthritis. <i>Archives of Physical Medicine and Rehabilitation</i> , <b>1999</b> , 80, 313-7   | 2.8 | 48 |
| 127 | Pain sensitivity profiles in patients with advanced knee osteoarthritis. <i>Pain</i> , <b>2016</b> , 157, 1988-1999   | 8   | 48 |
| 126 | Meta-analysis of transcutaneous electrical nerve stimulation for relief of spinal pain. <i>European Journal of Pain</i> , <b>2018</b> , 22, 663-678   | 3.7 | 47 |
| 125 | Increased c-fos immunoreactivity in the spinal cord and brain following spinal cord stimulation is frequency-dependent. <i>Brain Research</i> , <b>2009</b> , 1259, 40-50   | 3.7 | 44 |
| 124 | Fatigue-enhanced hyperalgesia in response to muscle insult: induction and development occur in a sex-dependent manner. <i>Pain</i> , <b>2013</b> , 154, 2668-2676   | 8   | 43 |
| 123 | Do cognitive and physical fatigue tasks enhance pain, cognitive fatigue, and physical fatigue in people with fibromyalgia?. <i>Arthritis Care and Research</i> , <b>2015</b> , 67, 288-96   | 4.7 | 43 |

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|-----|---|-----|----|
| 122 | Enhanced analgesic activity by cyclodextrins - a systematic review and meta-analysis. <i>Expert Opinion on Drug Delivery</i> , <b>2015</b> , 12, 1677-88  | 8   | 42 |
| 121 | Δaryophyllene, a dietary cannabinoid, complexed with βcyclodextrin produced anti-hyperalgesic effect involving the inhibition of Fos expression in superficial dorsal horn. <i>Life Sciences</i> , <b>2016</b> , 149, 34-41 | 6.8 | 41 |
| 120 | The dichotomized role for acid sensing ion channels in musculoskeletal pain and inflammation. <i>Neuropharmacology</i> , <b>2015</b> , 94, 58-63  | 5.5 | 41 |
| 119 | Capsaicin-induced sensitization of primate spinothalamic tract cells is prevented by a protein kinase C inhibitor. <i>Brain Research</i> , <b>1997</b> , 772, 82-6  | 3.7 | 40 |
| 118 | Muscle fatigue increases the probability of developing hyperalgesia in mice. <i>Journal of Pain</i> , <b>2007</b> , 8, 692-9  | 5.2 | 39 |
| 117 | ASIC3 Is Required for Development of Fatigue-Induced Hyperalgesia. <i>Molecular Neurobiology</i> , <b>2016</b> , 53, 1020-1030  | 6.2 | 38 |
| 116 | Acid-sensing ion channel 3 deficiency increases inflammation but decreases pain behavior in murine arthritis. <i>Arthritis and Rheumatism</i> , <b>2013</b> , 65, 1194-202  |     | 37 |
| 115 | Spinal cord stimulation reduces hypersensitivity through activation of opioid receptors in a frequency-dependent manner. <i>European Journal of Pain</i> , <b>2013</b> , 17, 551-61   | 3.7 | 37 |
| 114 | Changes in expression of NMDA-NR1 receptor subunits in the rostral ventromedial medulla modulate pain behaviors. <i>Pain</i> , <b>2010</b> , 151, 155-161   | 8   | 37 |
| 113 | Enhanced muscle fatigue occurs in male but not female ASIC3-/- mice. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , <b>2008</b> , 294, R1347-55                                | 3.2 | 37 |
| 112 | TRPV1 is important for mechanical and heat sensitivity in uninjured animals and development of heat hypersensitivity after muscle inflammation. <i>Pain</i> , <b>2012</b> , 153, 1664-1672                                  | 8   | 36 |
| 111 | Pain mechanisms involved in musculoskeletal disorders. <i>Journal of Orthopaedic and Sports Physical Therapy</i> , <b>1996</b> , 24, 240-54   | 4.2 | 34 |
| 110 | An interprofessional consensus of core competencies for prelicensure education in pain management: curriculum application for physical therapy. <i>Physical Therapy</i> , <b>2014</b> , 94, 451-65                          | 3.3 | 33 |
| 109 | Mechanical hyperalgesia and reduced quality of life occur in people with mild knee osteoarthritis pain. <i>Clinical Journal of Pain</i> , <b>2015</b> , 31, 315-22  | 3.5 | 32 |
| 108 | The current state of physical therapy pain curricula in the United States: a faculty survey. <i>Journal of Pain</i> , <b>2015</b> , 16, 144-52  | 5.2 | 32 |
| 107 | An investigation of the hypoalgesic effects of TENS delivered by a glove electrode. <i>Journal of Pain</i> , <b>2009</b> , 10, 694-701  | 5.2 | 32 |
| 106 | Transcutaneous electrical nerve stimulation at both high and low frequencies reduces primary hyperalgesia in rats with joint inflammation in a time-dependent manner. <i>Physical Therapy</i> , <b>2007</b> , 87, 44-51     | 3.3 | 31 |
| 105 | The effect of varying frequency and intensity of transcutaneous electrical nerve stimulation on secondary mechanical hyperalgesia in an animal model of inflammation. <i>Journal of Pain</i> , <b>2001</b> , 2, 128-33      | 5.2 | 31 |

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|-----|---|-----|----|
| 104 | Macrophage polarization contributes to local inflammation and structural change in the multifidus muscle after intervertebral disc injury. <i>European Spine Journal</i> , <b>2018</b> , 27, 1744-1756  | 2.7 | 30 |
| 103 | Addressing the gaps: sex differences in osteoarthritis of the knee. <i>Biology of Sex Differences</i> , <b>2013</b> , 4, 4  | 9.3 | 30 |
| 102 | Hormonal modulation of connective tissue homeostasis and sex differences in risk for osteoarthritis of the knee. <i>Biology of Sex Differences</i> , <b>2013</b> , 4, 3   | 9.3 | 30 |
| 101 | How does physical activity modulate pain?. <i>Pain</i> , <b>2017</b> , 158, 369-370   | 8   | 28 |
| 100 | Short-duration physical activity prevents the development of activity-induced hyperalgesia through opioid and serotonergic mechanisms. <i>Pain</i> , <b>2017</b> , 158, 1697-1710   | 8   | 28 |
| 99  | Blockade of opioid receptors in the medullary reticularis nucleus dorsalis, but not the rostral ventromedial medulla, prevents analgesia produced by diffuse noxious inhibitory control in rats with muscle inflammation. <i>Journal of Pain</i> , <b>2011</b> , 12, 687-97 | 5.2 | 28 |
| 98  | Increased glutamate and decreased glycine release in the rostral ventromedial medulla during induction of a pre-clinical model of chronic widespread muscle pain. <i>Neuroscience Letters</i> , <b>2009</b> , 457, 141-5  | 3.3 | 28 |
| 97  | Regular physical activity prevents development of chronic muscle pain through modulation of supraspinal opioid and serotonergic mechanisms. <i>Pain Reports</i> , <b>2017</b> , 2, e618   | 3.5 | 27 |
| 96  | Somatosensory and Biomechanical Abnormalities in Females With Patellofemoral Pain. <i>Clinical Journal of Pain</i> , <b>2016</b> , 32, 915-9  | 3.5 | 27 |
| 95  | Resident Macrophages in Muscle Contribute to Development of Hyperalgesia in a Mouse Model of Noninflammatory Muscle Pain. <i>Journal of Pain</i> , <b>2016</b> , 17, 1081-1094  | 5.2 | 26 |
| 94  | P2X3 and P2X2/3 Receptors Play a Crucial Role in Articular Hyperalgesia Development Through Inflammatory Mechanisms in the Knee Joint Experimental Synovitis. <i>Molecular Neurobiology</i> , <b>2017</b> , 54, 6174-6186   | 6.2 | 26 |
| 93  | Induction of chronic non-inflammatory widespread pain increases cardiac sympathetic modulation in rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , <b>2012</b> , 167, 45-9   | 2.4 | 26 |
| 92  | Exercise-induced pain requires NMDA receptor activation in the medullary raphe nuclei. <i>Medicine and Science in Sports and Exercise</i> , <b>2012</b> , 44, 420-7   | 1.2 | 26 |
| 91  | Cholecystokinin receptors mediate tolerance to the analgesic effect of TENS in arthritic rats. <i>Pain</i> , <b>2010</b> , 148, 84-93   | 8   | 26 |
| 90  | Blockade of NMDA receptors prevents analgesic tolerance to repeated transcutaneous electrical nerve stimulation (TENS) in rats. <i>Journal of Pain</i> , <b>2008</b> , 9, 217-25  | 5.2 | 26 |
| 89  | A novel transverse push-pull microprobe: in vitro characterization and in vivo demonstration of the enzymatic production of adenosine in the spinal cord dorsal horn. <i>Journal of Neurochemistry</i> , <b>2001</b> , 76, 234-46   | 6   | 25 |
| 88  | Activation of protein kinase C in the spinal cord produces mechanical hyperalgesia by activating glutamate receptors, but does not mediate chronic muscle-induced hyperalgesia. <i>Molecular Pain</i> , <b>2006</b> , 2, 13   | 3.4 | 25 |
| 87  | Assessment of avoidance behaviors in mouse models of muscle pain. <i>Neuroscience</i> , <b>2013</b> , 248, 54-60  | 3.9 | 24 |



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|----|---|-----|----|
| 86 | Increasing intensity of TENS prevents analgesic tolerance in rats. <i>Journal of Pain</i> , <b>2012</b> , 13, 884-90  | 5.2 | 24 |
| 85 | Neural and psychosocial contributions to sex differences in knee osteoarthritic pain. <i>Biology of Sex Differences</i> , <b>2012</b> , 3, 26   | 9.3 | 24 |
| 84 | Enhanced reduction in hyperalgesia by combined administration of clonidine and TENS. <i>Pain</i> , <b>2002</b> , 100, 183-90  | 8   | 24 |
| 83 | Transcutaneous Electrical Nerve Stimulation Reduces Movement-Evoked Pain and Fatigue: A Randomized, Controlled Trial. <i>Arthritis and Rheumatology</i> , <b>2020</b> , 72, 824-836   | 9.5 | 24 |
| 82 | Exercise prevents development of autonomic dysregulation and hyperalgesia in a mouse model of chronic muscle pain. <i>Pain</i> , <b>2016</b> , 157, 387-398   | 8   | 23 |
| 81 | ASICs Mediate Pain and Inflammation in Musculoskeletal Diseases. <i>Physiology</i> , <b>2015</b> , 30, 449-59   | 9.8 | 22 |
| 80 | Effect of transcutaneous electrical nerve stimulation on pain, function, and quality of life in fibromyalgia: a double-blind randomized clinical trial. <i>Physical Therapy</i> , <b>2015</b> , 95, 129-40  | 3.3 | 22 |
| 79 | Effect of transcutaneous electrical stimulation on nociception and edema induced by peripheral serotonin. <i>International Journal of Neuroscience</i> , <b>2013</b> , 123, 507-15  | 2   | 22 |
| 78 | ASICs Do Not Play a Role in Maintaining Hyperalgesia Induced by Repeated Intramuscular Acid Injections. <i>Pain Research and Treatment</i> , <b>2012</b> , 2012, 817347   | 1.9 | 22 |
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