

Maree T Smith

List of Publications by Citations

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168
papers

6,004
citations

42
h-index

71
g-index

175
ext. papers

6,737
ext. citations

4.5
avg, IF

5.91
L-index

| # | Paper | IF | Citations |
|-----|---|------|-----------|
| 168 | Morphine-3-glucuronide--a potent antagonist of morphine analgesia. <i>Life Sciences</i> , 1990 , 47, 579-85 | 6.8 | 272 |
| 167 | The pharmacokinetics of midazolam in man. <i>European Journal of Clinical Pharmacology</i> , 1981 , 19, 271-8 | 2.8 | 238 |
| 166 | Neuroexcitatory effects of morphine and hydromorphone: evidence implicating the 3-glucuronide metabolites. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2000 , 27, 524-8 | 3 | 209 |
| 165 | Pharmacokinetic changes in patients receiving extracorporeal membrane oxygenation. <i>Journal of Critical Care</i> , 2012 , 27, 741.e9-18 | 4 | 193 |
| 164 | Bioerodable PLGA-Based Microparticles for Producing Sustained-Release Drug Formulations and Strategies for Improving Drug Loading. <i>Frontiers in Pharmacology</i> , 2016 , 7, 185 | 5.6 | 179 |
| 163 | The intrinsic antinociceptive effects of oxycodone appear to be kappa-opioid receptor mediated. <i>Pain</i> , 1997 , 73, 151-157 | 8 | 178 |
| 162 | Sequestration of drugs in the circuit may lead to therapeutic failure during extracorporeal membrane oxygenation. <i>Critical Care</i> , 2012 , 16, R194 | 10.8 | 171 |
| 161 | Pathobiology of cancer chemotherapy-induced peripheral neuropathy (CIPN). <i>Frontiers in Pharmacology</i> , 2013 , 4, 156 | 5.6 | 157 |
| 160 | The streptozotocin-diabetic rat as a model of the chronic complications of human diabetes. <i>Heart Lung and Circulation</i> , 2003 , 12, 44-50 | 1.8 | 144 |
| 159 | PG545, a dual heparanase and angiogenesis inhibitor, induces potent anti-tumour and anti-metastatic efficacy in preclinical models. <i>British Journal of Cancer</i> , 2011 , 104, 635-42 | 8.7 | 137 |
| 158 | The novel N-type calcium channel blocker, AM336, produces potent dose-dependent antinociception after intrathecal dosing in rats and inhibits substance P release in rat spinal cord slices. <i>Pain</i> , 2002 , 96, 119-27 | 8 | 133 |
| 157 | Single-dose and steady-state pharmacokinetics and pharmacodynamics of oxycodone in patients with cancer. <i>Clinical Pharmacology and Therapeutics</i> , 1992 , 52, 487-95 | 6.1 | 119 |
| 156 | Oxycodone and morphine have distinctly different pharmacological profiles: radioligand binding and behavioural studies in two rat models of neuropathic pain. <i>Pain</i> , 2007 , 132, 289-300 | 8 | 117 |
| 155 | Neurotrophins and Neuropathic Pain: Role in Pathobiology. <i>Molecules</i> , 2015 , 20, 10657-88 | 4.8 | 110 |
| 154 | Hydromorphone-3-glucuronide: a more potent neuro-excitant than its structural analogue, morphine-3-glucuronide. <i>Life Sciences</i> , 2001 , 69, 409-20 | 6.8 | 93 |
| 153 | Dose-dependent pharmacokinetics of caffeine in humans: relevance as a test of quantitative liver function. <i>Clinical Pharmacology and Therapeutics</i> , 1990 , 47, 516-24 | 6.1 | 91 |
| 152 | An update on the pharmacological management of post-herpetic neuralgia and painful diabetic neuropathy. <i>CNS Drugs</i> , 2008 , 22, 417-42 | 6.7 | 84 |

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|-----|---|------|----|
| 151 | Morphine-3-glucuronide: evidence to support its putative role in the development of tolerance to the antinociceptive effects of morphine in the rat. <i>Pain</i> , 1995 , 62, 51-60 | 8 | 79 |
| 150 | Validating Eaton® Hypothesis: Cubane as a Benzene Bioisostere. <i>Angewandte Chemie - International Edition</i> , 2016 , 55, 3580-5 | 16.4 | 78 |
| 149 | The excitatory effects of morphine-3-glucuronide are attenuated by LY274614, a competitive NMDA receptor antagonist, and by midazolam, an agonist at the benzodiazepine site on the GABAA receptor complex. <i>Life Sciences</i> , 1994 , 54, 687-94 | 6.8 | 77 |
| 148 | Multiple sclerosis-induced neuropathic pain: pharmacological management and pathophysiological insights from rodent EAE models. <i>Inflammopharmacology</i> , 2014 , 22, 1-22 | 5.1 | 72 |
| 147 | ASAP ECMO: Antibiotic, Sedative and Analgesic Pharmacokinetics during Extracorporeal Membrane Oxygenation: a multi-centre study to optimise drug therapy during ECMO. <i>BMC Anesthesiology</i> , 2012 , 12, 29 | 2.4 | 71 |
| 146 | Pharmacokinetics and pharmacodynamics of oxycodone when given intravenously and rectally to adult patients with cancer pain. <i>Anesthesia and Analgesia</i> , 1995 , 80, 296-302 | 3.9 | 71 |
| 145 | A randomized, controlled trial of oxycodone versus placebo in patients with postherpetic neuralgia and painful diabetic neuropathy treated with pregabalin. <i>Journal of Pain</i> , 2010 , 11, 462-71 | 5.2 | 70 |
| 144 | Anti-allodynic efficacy of the chi-conopeptide, Xen2174, in rats with neuropathic pain. <i>Pain</i> , 2005 , 118, 112-24 | 8 | 70 |
| 143 | Small molecule angiotensin II type 2 receptor (AT ₂) antagonists as novel analgesics for neuropathic pain: comparative pharmacokinetics, radioligand binding, and efficacy in rats. <i>Pain Medicine</i> , 2013 , 14, 692-705 | 2.8 | 68 |
| 142 | Co-administration of sub-antinociceptive doses of oxycodone and morphine produces marked antinociceptive synergy with reduced CNS side-effects in rats. <i>Pain</i> , 2000 , 84, 421-8 | 8 | 66 |
| 141 | Comparative oxycodone pharmacokinetics in humans after intravenous, oral, and rectal administration. <i>Therapeutic Drug Monitoring</i> , 1992 , 14, 479-84 | 3.2 | 65 |
| 140 | chi-Conopeptide pharmacophore development: toward a novel class of norepinephrine transporter inhibitor (Xen2174) for pain. <i>Journal of Medicinal Chemistry</i> , 2009 , 52, 6991-7002 | 8.3 | 63 |
| 139 | Synthesis and biological evaluation of an orally active glycosylated endomorphin-1. <i>Journal of Medicinal Chemistry</i> , 2012 , 55, 5859-67 | 8.3 | 62 |
| 138 | Pregabalin in severe burn injury pain: a double-blind, randomised placebo-controlled trial. <i>Pain</i> , 2011 , 152, 1279-1288 | 8 | 60 |
| 137 | Progress in understanding mechanisms of opioid-induced gastrointestinal adverse effects and respiratory depression. <i>Neuropharmacology</i> , 2018 , 131, 238-255 | 5.5 | 57 |
| 136 | Pharmacology of morphine and morphine-3-glucuronide at opioid, excitatory amino acid, GABA and glycine binding sites. <i>Basic and Clinical Pharmacology and Toxicology</i> , 1994 , 75, 73-81 | | 57 |
| 135 | A small molecule angiotensin II type 2 receptor (AT ₂) antagonist produces analgesia in a rat model of neuropathic pain by inhibition of p38 mitogen-activated protein kinase (MAPK) and p44/p42 MAPK activation in the dorsal root ganglia. <i>Pain Medicine</i> , 2013 , 14, 1557-68 | 2.8 | 54 |
| 134 | Sensory changes during the ovulatory phase of the menstrual cycle in healthy women. <i>European Journal of Pain</i> , 2001 , 5, 135-44 | 3.7 | 54 |

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|-----|---|-----|----|
| 133 | Quantitation of morphine, morphine-3-glucuronide, and morphine-6-glucuronide in plasma and cerebrospinal fluid using solid-phase extraction and high-performance liquid chromatography with electrochemical detection. <i>Therapeutic Drug Monitoring</i> , 1994 , 16, 200-8 | 3.2 | 51 |
| 132 | Pharmacokinetics of midazolam in the aged. <i>European Journal of Clinical Pharmacology</i> , 1984 , 26, 381-8 | 2.8 | 51 |
| 131 | Morphine-3-glucuronide neuro-excitatory effects are mediated via indirect activation of N-methyl-D-aspartic acid receptors: mechanistic studies in embryonic cultured hippocampal neurones. <i>Anesthesia and Analgesia</i> , 2003 , 97, 494-505 | 3.9 | 49 |
| 130 | High-throughput assay for simultaneous quantification of the plasma concentrations of morphine, fentanyl, midazolam and their major metabolites using automated SPE coupled to LC-MS/MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 903, 126-33 | 3.2 | 47 |
| 129 | In vivo profiling of seven common opioids for antinociception, constipation and respiratory depression: no two opioids have the same profile. <i>British Journal of Pharmacology</i> , 2015 , 172, 532-48 | 8.6 | 45 |
| 128 | Characterization of non-conventional opioid binding sites in rat and human lung. <i>European Journal of Pharmacology</i> , 1994 , 268, 247-55 | | 45 |
| 127 | Hydromorphone-3-glucuronide: biochemical synthesis and preliminary pharmacological evaluation. <i>Life Sciences</i> , 1998 , 63, 401-11 | 6.8 | 42 |
| 126 | Determination of the serum protein binding of oxycodone and morphine using ultrafiltration. <i>Therapeutic Drug Monitoring</i> , 1993 , 15, 440-7 | 3.2 | 41 |
| 125 | Studies on neurosteroids XIX. Development and validation of liquid chromatography-tandem mass spectrometric method for determination of 5 α -reduced pregnane-type neurosteroids in rat brain and serum. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 848, 188-99 | 3.2 | 40 |
| 124 | The antinociceptive potencies of oxycodone, noroxycodone and morphine after intracerebroventricular administration to rats. <i>Life Sciences</i> , 1994 , 54, 1229-36 | 6.8 | 40 |
| 123 | Correlations between in vitro dissolution, in vivo bioavailability and hypoglycaemic effect of oral glibenclamide. <i>European Journal of Clinical Pharmacology</i> , 1986 , 31, 177-82 | 2.8 | 40 |
| 122 | Pain, analgesia and genetics. <i>Journal of Pharmacy and Pharmacology</i> , 2011 , 63, 1387-400 | 4.8 | 37 |
| 121 | Intraarticular and Periarticular Opioid Binding in Inflamed Tissue in Experimental Canine Arthritis. <i>Anesthesia and Analgesia</i> , 1999 , 89, 409-415 | 3.9 | 37 |
| 120 | Altered antibiotic pharmacokinetics during extracorporeal membrane oxygenation: cause for concern?. <i>Journal of Antimicrobial Chemotherapy</i> , 2013 , 68, 726-7 | 5.1 | 35 |
| 119 | Pharmacological inhibition of the NLRP3 inflammasome as a potential target for multiple sclerosis induced central neuropathic pain. <i>Inflammopharmacology</i> , 2018 , 26, 77-86 | 5.1 | 32 |
| 118 | Selective small molecule angiotensin II type 2 receptor antagonists for neuropathic pain: preclinical and clinical studies. <i>Pain</i> , 2016 , 157 Suppl 1, S33-S41 | 8 | 32 |
| 117 | Pathobiology and management of prostate cancer-induced bone pain: recent insights and future treatments. <i>Inflammopharmacology</i> , 2013 , 21, 339-63 | 5.1 | 32 |
| 116 | Analgesic efficacy and mode of action of a selective small molecule angiotensin II type 2 receptor antagonist in a rat model of prostate cancer-induced bone pain. <i>Pain Medicine</i> , 2014 , 15, 93-110 | 2.8 | 32 |

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|-----|--|-----|----|
| 115 | Sex differences in the pharmacokinetics, oxidative metabolism and oral bioavailability of oxycodone in the Sprague-Dawley rat. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2008 , 35, 295-302 | 3 | 32 |
| 114 | Simultaneous determination of morphine, oxycodone, morphine-3-glucuronide, and noroxycodone concentrations in rat serum by high performance liquid chromatography-electrospray ionization-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 814, 241-9 | 3.2 | 32 |
| 113 | The Walker 256 Breast Cancer Cell- Induced Bone Pain Model in Rats. <i>Frontiers in Pharmacology</i> , 2016 , 7, 286 | 5.6 | 32 |
| 112 | Differences between and combinations of opioids re-visited. <i>Current Opinion in Anaesthesiology</i> , 2008 , 21, 596-601 | 2.9 | 30 |
| 111 | Propranolol, propranolol glucuronide, and naphthoxylactic acid in breast milk and plasma. <i>Therapeutic Drug Monitoring</i> , 1983 , 5, 87-93 | 3.2 | 30 |
| 110 | Opioid analgesic prescribing and use - an audit of analgesic prescribing by general practitioners and The Multidisciplinary Pain Centre at Royal Brisbane Hospital. <i>British Journal of Clinical Pharmacology</i> , 2001 , 52, 693-8 | 3.8 | 28 |
| 109 | Validating Eaton [®] Hypothesis: Cubane as a Benzene Bioisostere. <i>Angewandte Chemie</i> , 2016 , 128, 3644-3649 | 5.9 | 28 |
| 108 | Targeting angiotensin II type 2 receptor pathways to treat neuropathic pain and inflammatory pain. <i>Expert Opinion on Therapeutic Targets</i> , 2015 , 19, 25-35 | 6.4 | 26 |
| 107 | Optimization and pharmacological characterization of a refined cisplatin-induced rat model of peripheral neuropathic pain. <i>Behavioural Pharmacology</i> , 2014 , 25, 732-40 | 2.4 | 26 |
| 106 | Lipo-endomorphin-1 derivatives with systemic activity against neuropathic pain without producing constipation. <i>PLoS ONE</i> , 2012 , 7, e41909 | 3.7 | 26 |
| 105 | The ECMO PK Project: an incremental research approach to advance understanding of the pharmacokinetic alterations and improve patient outcomes during extracorporeal membrane oxygenation. <i>BMC Anesthesiology</i> , 2013 , 13, 7 | 2.4 | 26 |
| 104 | Antinociception versus serum concentration relationships following acute administration of intravenous morphine in male and female Sprague-Dawley rats: differences between the tail flick and hot plate nociceptive tests. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009 , 36, 20-8 | 3 | 26 |
| 103 | Preliminary study of the plasma and cerebrospinal fluid concentrations of IL-6 and IL-10 in patients with chronic pain receiving intrathecal opioid infusions by chronically implanted pump for pain management. <i>Pain Medicine</i> , 2010 , 11, 550-61 | 2.8 | 26 |
| 102 | Cerebrospinal Fluid and Plasma Concentrations of Morphine, Morphine-3-Glucuronide, and Morphine-6-Glucuronide in Patients Before and After Initiation of Intracerebroventricular Morphine for Cancer Pain Management. <i>Anesthesia and Analgesia</i> , 1999 , 88, 109-116 | 3.9 | 26 |
| 101 | Comparative studies using the Morris water maze to assess spatial memory deficits in two transgenic mouse models of Alzheimer [®] disease. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2014 , 41, 798-806 | 3 | 25 |
| 100 | A sensitive liquid chromatographic assay for plasma aspirin and salicylate concentrations after low doses of aspirin. <i>Therapeutic Drug Monitoring</i> , 1985 , 7, 216-21 | 3.2 | 25 |
| 99 | Antiallodynic effects of alpha lipoic acid in an optimized RR-EAE mouse model of MS-neuropathic pain are accompanied by attenuation of upregulated BDNF-TrkB-ERK signaling in the dorsal horn of the spinal cord. <i>Pharmacology Research and Perspectives</i> , 2015 , 3, e00137 | 3.1 | 24 |
| 98 | Pharmacogenetics of pain and analgesia. <i>Clinical Genetics</i> , 2012 , 82, 321-30 | 4 | 24 |

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|----|---|-----|----|
| 97 | Inhibition of acid-sensing ion channels by diminazene and APETx2 evoke partial and highly variable antihyperalgesia in a rat model of inflammatory pain. <i>British Journal of Pharmacology</i> , 2018 , 175, 2204-2218 | 8.6 | 24 |
| 96 | Establishment and characterization of an optimized mouse model of multiple sclerosis-induced neuropathic pain using behavioral, pharmacologic, histologic and immunohistochemical methods. <i>Pharmacology Biochemistry and Behavior</i> , 2014 , 126, 13-27 | 3.9 | 23 |
| 95 | The cubane paradigm in bioactive molecule discovery: further scope, limitations and the cyclooctatetraene complement. <i>Organic and Biomolecular Chemistry</i> , 2019 , 17, 6790-6798 | 3.9 | 22 |
| 94 | Optimization and characterization of a rat model of prostate cancer-induced bone pain using behavioral, pharmacological, radiological, histological and immunohistochemical methods. <i>Pharmacology Biochemistry and Behavior</i> , 2013 , 106, 33-46 | 3.9 | 22 |
| 93 | Ventilatory responses of healthy subjects to intravenous combinations of morphine and oxycodone under imposed hypercapnic and hypoxaemic conditions. <i>British Journal of Clinical Pharmacology</i> , 2005 , 59, 524-35 | 3.8 | 22 |
| 92 | Quantitation of oxycodone in human plasma using high-performance liquid chromatography with electrochemical detection. <i>Therapeutic Drug Monitoring</i> , 1991 , 13, 126-30 | 3.2 | 22 |
| 91 | Longitudinal study of painful diabetic neuropathy in the Zucker diabetic fatty rat model of type 2 diabetes: impaired basal G-protein activity appears to underpin marked morphine hyposensitivity at 6 months. <i>Pain Medicine</i> , 2011 , 12, 437-50 | 2.8 | 21 |
| 90 | Theoretical and practical applications of the intracerebroventricular route for CSF sampling and drug administration in CNS drug discovery research: a mini review. <i>Journal of Neuroscience Methods</i> , 2014 , 233, 166-71 | 3 | 20 |
| 89 | In vivo high angular resolution diffusion-weighted imaging of mouse brain at 16.4 Tesla. <i>PLoS ONE</i> , 2015 , 10, e0130133 | 3.7 | 20 |
| 88 | Low-level quantitation of oxycodone and its oxidative metabolites, noroxycodone, and oxymorphone, in rat plasma by high-performance liquid chromatography-electrospray ionization-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2007 , 848, 264-70 | 3.2 | 20 |
| 87 | Quantitative autoradiography of peripheral opioid binding sites in rat lung. <i>European Journal of Pharmacology</i> , 1996 , 310, 47-53 | 5.3 | 20 |
| 86 | The effect of 1mg folic acid supplementation on clinical outcomes in female migraine with aura patients. <i>Journal of Headache and Pain</i> , 2016 , 17, 60 | 8.8 | 20 |
| 85 | Analgesic efficacy of small-molecule angiotensin II type 2 receptor antagonists in a rat model of antiretroviral toxic polyneuropathy. <i>Behavioural Pharmacology</i> , 2014 , 25, 137-46 | 2.4 | 19 |
| 84 | Solid-phase extraction method with high-performance liquid chromatography and electrochemical detection for the quantitative analysis of oxycodone in human plasma. <i>Biomedical Applications</i> , 1998 , 712, 169-75 | | 19 |
| 83 | Measurement of intracellular Ca ²⁺ in cultured rat embryonic hippocampal neurons using a fluorescence microplate reader: potential application to biomolecular screening. <i>Journal of Pharmacological and Toxicological Methods</i> , 2004 , 49, 81-7 | 1.7 | 19 |
| 82 | Brain region-specific studies of the excitatory behavioral effects of morphine-3-glucuronide. <i>Life Sciences</i> , 1999 , 65, 225-36 | 6.8 | 19 |
| 81 | Development of simulated and ovine models of extracorporeal life support to improve understanding of circuit-host interactions. <i>Critical Care and Resuscitation: Journal of the Australasian Academy of Critical Care Medicine</i> , 2012 , 14, 105-11 | 2.8 | 19 |
| 80 | Sustained-release ketamine-loaded nanoparticles fabricated by sequential nanoprecipitation. <i>International Journal of Pharmaceutics</i> , 2020 , 581, 119291 | 6.5 | 18 |

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| 79 | Comparison of Burrowing and Stimuli-Evoked Pain Behaviors as End-Points in Rat Models of Inflammatory Pain and Peripheral Neuropathic Pain. <i>Frontiers in Behavioral Neuroscience</i> , 2016 , 10, 88 | 3.5 | 18 |
| 78 | Cyclooctatetraene: A Bioactive Cubane Paradigm Complement. <i>Chemistry - A European Journal</i> , 2019 , 25, 2729-2734 | 4.8 | 17 |
| 77 | Novel polymeric bioerodable microparticles for prolonged-release intrathecal delivery of analgesic agents for relief of intractable cancer-related pain. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 2334-44 | 3.9 | 17 |
| 76 | Development and validation of a sensitive solid-phase-extraction (SPE) method using high-performance liquid chromatography/tandem mass spectrometry (LC-MS/MS) for determination of risedronate concentrations in human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2012 , 881, 222-231 | 3.2 | 17 |
| 75 | Comparison of the pharmacokinetics of oxycodone and noroxycodone in male dark agouti and Sprague-Dawley rats: influence of streptozotocin-induced diabetes. <i>Pharmaceutical Research</i> , 2005 , 22, 1489-98 | 4.5 | 17 |
| 74 | Propranolol in pregnancy three year prospective study. <i>Clinical and Experimental Hypertension Part B, Hypertension in Pregnancy</i> , 1983 , 2, 341-50 | | 17 |
| 73 | Fully validated LC-MS/MS method for quantification of homocysteine concentrations in samples of human serum: a new approach. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2014 , 972, 14-21 | 3.2 | 16 |
| 72 | Peripherally acting novel lipo-endorphin-1 peptides in neuropathic pain without producing constipation. <i>Bioorganic and Medicinal Chemistry</i> , 2013 , 21, 1898-904 | 3.4 | 16 |
| 71 | Effects of long-term opioid analgesics on cognitive performance and plasma cytokine concentrations in patients with chronic low back pain: a cross-sectional pilot study. <i>Pain Reports</i> , 2018 , 3, e669 | 3.5 | 16 |
| 70 | The Somatostatin Receptor-4 Agonist J-2156 Alleviates Mechanical Hypersensitivity in a Rat Model of Breast Cancer Induced Bone Pain. <i>Frontiers in Pharmacology</i> , 2018 , 9, 495 | 5.6 | 15 |
| 69 | Pregabalin for the treatment of fibromyalgia. <i>Expert Opinion on Pharmacotherapy</i> , 2012 , 13, 1527-33 | 4 | 15 |
| 68 | In vitro methods for hazard assessment of industrial chemicals - opportunities and challenges. <i>Frontiers in Pharmacology</i> , 2015 , 6, 94 | 5.6 | 14 |
| 67 | Morphine has a dual concentration-dependent effect on K(+)-evoked substance P release from rat peripheral airways. <i>Pulmonary Pharmacology and Therapeutics</i> , 1997 , 10, 215-21 | 3.5 | 14 |
| 66 | Deletion of guanine nucleotide binding protein alpha z subunit in mice induces a gene dose dependent tolerance to morphine. <i>Neuropharmacology</i> , 2004 , 46, 836-46 | 5.5 | 14 |
| 65 | Pharmacokinetics of prazepam in man. <i>European Journal of Clinical Pharmacology</i> , 1979 , 16, 141-7 | 2.8 | 14 |
| 64 | Chronic low back pain: a mini-review on pharmacological management and pathophysiological insights from clinical and pre-clinical data. <i>Inflammopharmacology</i> , 2018 , 26, 881 | 5.1 | 14 |
| 63 | Topical application of a novel oxycodone gel formulation (tocopheryl phosphate mixture) in a rat model of peripheral inflammatory pain produces localized pain relief without significant systemic exposure. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 2388-96 | 3.9 | 13 |
| 62 | The furoxan nitric oxide donor, PRG150, evokes dose-dependent analgesia in a rat model of painful diabetic neuropathy. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2015 , 42, 921-929 | 3 | 12 |

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| 61 | Angiotensin II type 2-receptor: new clinically validated target in the treatment of neuropathic pain. <i>Clinical Pharmacology and Therapeutics</i> , 2015 , 97, 128-30 | 6.1 | 11 |
| 60 | Endomorphin analogues with mixed μ -opioid (MOP) receptor agonism/ δ -opioid (DOP) receptor antagonism and lacking β -arrestin2 recruitment activity. <i>Bioorganic and Medicinal Chemistry</i> , 2014 , 22, 2208-19 | 3.4 | 11 |
| 59 | Insulin implants prevent the temporal development of mechanical allodynia and opioid hyposensitivity for 24-wks in streptozotocin (STZ)-diabetic Wistar rats. <i>Pain Medicine</i> , 2011 , 12, 782-93 | 2.8 | 11 |
| 58 | Comparative studies of the neuro-excitatory behavioural effects of morphine-3-glucuronide and dynorphin A(2-17) following spinal and supraspinal routes of administration. <i>Pharmacology Biochemistry and Behavior</i> , 2009 , 93, 498-505 | 3.9 | 11 |
| 57 | Effects of morphine-3-glucuronide and morphine on the K ⁺ -evoked release of [3H]-glutamic acid and [14C]-gamma-aminobutyric acid from rat brain synaptosomes. <i>Life Sciences</i> , 1996 , 58, 447-54 | 6.8 | 11 |
| 56 | Countering opioid-induced respiratory depression by non-opioids that are respiratory stimulants. <i>F1000Research</i> , 2020 , 9, | 3.6 | 11 |
| 55 | Establishment and Characterization of a Novel Rat Model of Mechanical Low Back Pain Using Behavioral, Pharmacologic and Histologic Methods. <i>Frontiers in Pharmacology</i> , 2017 , 8, 493 | 5.6 | 10 |
| 54 | Metabolism of propranolol in the human maternal-placental-foetal unit. <i>European Journal of Clinical Pharmacology</i> , 1983 , 24, 727-32 | 2.8 | 10 |
| 53 | Chronic propranolol administration during pregnancy. Maternal pharmacokinetics. <i>European Journal of Clinical Pharmacology</i> , 1983 , 25, 481-90 | 2.8 | 10 |
| 52 | In Vitro Metabolic Stability and in Vivo Biodistribution of 3-Methyl-4-furoxancarbaldehyde Using PET Imaging in Rats. <i>ACS Medicinal Chemistry Letters</i> , 2016 , 7, 563-7 | 4.3 | 10 |
| 51 | Sustained-Release Hydromorphone Microparticles Produced by Supercritical Fluid Polymer Encapsulation. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 811-814 | 3.9 | 10 |
| 50 | Investigation of the antinociceptive efficacy and relative potency of extended duration injectable 3-acylmorphine-6-sulfate prodrugs in rats. <i>International Journal of Pharmaceutics</i> , 1998 , 163, 191-201 | 6.5 | 9 |
| 49 | A simple, low-cost, remote fiber-optic micro volume fluorescence flowcell for capillary flow-injection analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2002 , 374, 385-9 | 4.4 | 9 |
| 48 | A novel fully validated LC-MS/MS method for quantification of pyridoxal-5-phosphate concentrations in samples of human whole blood. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2015 , 1000, 77-83 | 3.2 | 8 |
| 47 | Attenuation of the Infiltration of Angiotensin II Expressing CD3 T-Cells and the Modulation of Nerve Growth Factor in Lumbar Dorsal Root Ganglia - A Possible Mechanism Underpinning Analgesia Produced by EMA300, An Angiotensin II Type 2 (AT) Receptor Antagonist. <i>Frontiers in Molecular Neuroscience</i> , 2017 , 10, 389 | 6.1 | 8 |
| 46 | Intraarticular and periarticular opioid binding in inflamed tissue in experimental canine arthritis. <i>Anesthesia and Analgesia</i> , 1999 , 89, 409-15 | 3.9 | 8 |
| 45 | Improved one-step solid-phase extraction method for morphine, morphine-3-glucuronide, and morphine-6-glucuronide from plasma and quantitation using high-performance liquid chromatography with electrochemical detection. <i>Therapeutic Drug Monitoring</i> , 1998 , 20, 215-8 | 3.2 | 8 |
| 44 | Evaluation of a High-Throughput Peptide Reactivity Format Assay for Assessment of the Skin Sensitization Potential of Chemicals. <i>Frontiers in Pharmacology</i> , 2016 , 7, 53 | 5.6 | 8 |

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| 43 | Formulation of Bioerodible Ketamine Microparticles as an Analgesic Adjuvant Treatment Produced by Supercritical Fluid Polymer Encapsulation. <i>Pharmaceutics</i> , 2018 , 10, | 6.4 | 8 |
| 42 | Bioerodable Ketamine-Loaded Microparticles Fabricated Using Dissolvable Hydrogel Template Technology. <i>Journal of Pharmaceutical Sciences</i> , 2019 , 108, 1220-1226 | 3.9 | 7 |
| 41 | Intracerebroventricular administration of CYX-6, a potent μ -opioid receptor agonist, a κ and δ opioid receptor antagonist and a biased ligand at μ & δ opioid receptors, evokes antinociception with minimal constipation and respiratory depression in rats in contrast to morphine. <i>European Journal of Pharmacology</i> , 2020 , 871, 172918 | 5.3 | 7 |
| 40 | Optimization and Profiling of a Refined Rat Model of Walker 256 Breast Cancer Cell-Induced Bone Pain Using Behavioral, Radiological, Histological, Immunohistochemical and Pharmacological Methods. <i>Frontiers in Pharmacology</i> , 2017 , 8, 442 | 5.6 | 7 |
| 39 | J-2156, a somatostatin receptor type 4 agonist, alleviates mechanical hyperalgesia in a rat model of chronic low back pain. <i>Biomedicine and Pharmacotherapy</i> , 2019 , 117, 109056 | 7.5 | 6 |
| 38 | The role of morphine-6-glucuronide (M6G) in pain control. <i>Pain Reviews</i> , 2001 , 8, 171-191 | | 6 |
| 37 | Simple and Reliable Determination of Bromazepam in Human Plasma by High-Performance Liquid Chromatography. <i>Analytica Chimica Acta</i> , 1985 , 177, 267-271 | 6.6 | 6 |
| 36 | Oxycodone mechanism of action and potency differences after spinal and systemic routes of administration. <i>Anesthesiology</i> , 2007 , 106, 1063-4; author reply 1064-5 | 4.3 | 6 |
| 35 | An improved liquid chromatography tandem mass spectrometry (LC-MS/MS) method for quantification of dexmedetomidine concentrations in samples of human plasma. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018 , 1073, 118-122 | 3.2 | 6 |
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