Susruta Majumdar

List of Publications by Year
in descending order

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51	2,305	279798	223800
papers	citations	23 h-index	46 g-index

56	56	56	2070
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structure of the Nanobody-Stabilized Active State of the Kappa Opioid Receptor. Cell, 2018, 172, 55-67.e15.	28.9	299
2	Synthetic and Receptor Signaling Explorations of the Mitragyna Alkaloids: Mitragynine as an Atypical Molecular Framework for Opioid Receptor Modulators. Journal of the American Chemical Society, 2016, 138, 6754-6764.	13.7	233
3	Mitragynine/Corynantheidine Pseudoindoxyls As Opioid Analgesics with Mu Agonism and Delta Antagonism, Which Do Not Recruit Î²-Arrestin-2. Journal of Medicinal Chemistry, 2016, 59, 8381-8397.	6.4	229
4	Truncated G protein-coupled mu opioid receptor MOR-1 splice variants are targets for highly potent opioid analgesics lacking side effects. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19778-19783.	7.1	126
5	7-Hydroxymitragynine Is an Active Metabolite of Mitragynine and a Key Mediator of Its Analgesic Effects. ACS Central Science, 2019, 5, 992-1001.	11.3	120
6	Isocyanide-Based Multicomponent Reactions for the Synthesis of Heterocycles. Molecules, 2016, 21, 19.	3.8	112
7	Biased Opioid Ligands. Molecules, 2020, 25, 4257.	3.8	79
8	Pharmacological characterization of novel synthetic opioids (NSO) found in the recreational drug marketplace. Neuropharmacology, 2018, 134, 101-107.	4.1	78
9	Mediation of opioid analgesia by a truncated 6-transmembrane GPCR. Journal of Clinical Investigation, 2015, 125, 2626-2630.	8.2	55
10	G proteinâ€biased kratomâ€alkaloids and synthetic carfentanilâ€amide opioids as potential treatments for alcohol use disorder. British Journal of Pharmacology, 2020, 177, 1497-1513.	5.4	53
11	Synthesis and Evaluation of Aryl-Naloxamide Opiate Analgesics Targeting Truncated Exon 11-Associated Î¼ Opioid Receptor (MOR-1) Splice Variants. Journal of Medicinal Chemistry, 2012, 55, 6352-6362.	6.4	52
12	Generation of novel radiolabeled opiates through site-selective iodination. Bioorganic and Medicinal Chemistry Letters, 2011, 21, 4001-4004.	2.2	44
13	Synthesis and Characterization of a Dual Kappa-Delta Opioid Receptor Agonist Analgesic Blocking Cocaine Reward Behavior. ACS Chemical Neuroscience, 2015, 6, 1813-1824.	3.5	42
14	Agonist-selective recruitment of engineered protein probes and of GRK2 by opioid receptors in living cells. ELife, 2020, 9, .	6.0	42
15	Broad-spectrum analgesic efficacy of IBNtxA is mediated by exon 11-associated splice variants of the mu-opioid receptor gene. Pain, 2014, 155, 2063-2070.	4.2	40
16	Mediation of buprenorphine analgesia by a combination of traditional and truncated mu opioid receptor splice variants. Synapse, 2016, 70, 395-407.	1.2	40
17	Controlling opioid receptor functional selectivity by targeting distinct subpockets of the orthosteric site. ELife, 2021, 10, .	6.0	40
18	Synthesis of Carfentanil Amide Opioids Using the Ugi Multicomponent Reaction. ACS Chemical Neuroscience, 2015, 6, 1570-1577.	3.5	39

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19	Natural Products for the Treatment of Pain: Chemistry and Pharmacology of Salvinorin A, Mitragynine, and Collybolide. Biochemistry, 2021, 60, 1381-1400.	2.5	37
20	Kratom Alkaloids, Natural and Semi-Synthetic, Show Less Physical Dependence and Ameliorate Opioid Withdrawal. Cellular and Molecular Neurobiology, 2021, 41, 1131-1143.	3.3	36
21	A Novel Mitragynine Analog with Low-Efficacy Mu Opioid Receptor Agonism Displays Antinociception with Attenuated Adverse Effects. Journal of Medicinal Chemistry, 2021, 64, 13873-13892.	6.4	33
22	Canvass: A Crowd-Sourced, Natural-Product Screening Library for Exploring Biological Space. ACS Central Science, 2018, 4, 1727-1741.	11.3	32
23	Truncated mu opioid GPCR variant involvement in opioid-dependent and opioid-independent pain modulatory systems within the CNS. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 3663-3668.	7.1	27
24	Predicted Mode of Binding to and Allosteric Modulation of the Î¼-Opioid Receptor by Kratomâ€™s Alkaloids with Reported Antinociception In Vivo. Biochemistry, 2021, 60, 1420-1429.	2.5	26
25	Oxidative Metabolism as a Modulator of Kratomâ€™s Biological Actions. Journal of Medicinal Chemistry, 2021, 64, 16553-16572.	6.4	26
26	Strategies towards safer opioid analgesicsâ€”A review of old and upcoming targets. British Journal of Pharmacology, 2023, 180, 975-993.	5.4	26
27	Site selective Câ€“H functionalization of Mitragyna alkaloids reveals a molecular switch for tuning opioid receptor signaling efficacy. Nature Communications, 2021, 12, 3858.	12.8	25
28	Pharmacologic Characterization in the Rat of a Potent Analgesic Lacking Respiratory Depression, IBNtxA. Journal of Pharmacology and Experimental Therapeutics, 2014, 350, 710-718.	2.5	22
29	Truncated Î¼-Opioid Receptors With 6 Transmembrane Domains Are Essential for Opioid Analgesia. Anesthesia and Analgesia, 2018, 126, 1050-1057.	2.2	22
30	Strategy for making safer opioids bolstered. Nature, 2018, 553, 286-288.	27.8	22
31	Synthesis and Pharmacology of a Novel Î¼â€“Î´ Opioid Receptor Heteromer-Selective Agonist Based on the Carfentanyl Template. Journal of Medicinal Chemistry, 2020, 63, 13618-13637.	6.4	22
32	Three-Component Coupling Approach for the Synthesis of Diverse Heterocycles Utilizing Reactive Nitrilium Trapping. Organic Letters, 2014, 16, 1668-1671.	4.6	20
33	Kratom Alkaloids as Probes for Opioid Receptor Function: Pharmacological Characterization of Minor Indole and Oxindole Alkaloids from Kratom. ACS Chemical Neuroscience, 2021, 12, 2661-2678.	3.5	20
34	Genetic dissociation of morphine analgesia from hyperalgesia in mice. Psychopharmacology, 2017, 234, 1891-1900.	3.1	19
35	Mild, Pd-catalyzed stannylation of radioiodination targets. Bioorganic and Medicinal Chemistry Letters, 2015, 25, 1761-1764.	2.2	16
36	Novel 6Î²-acylaminomorphinans with analgesic activity. European Journal of Medicinal Chemistry, 2013, 69, 786-789.	5.5	15

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37	Pharmacological Characterization of Levorphanol, a G-Protein Biased Opioid Analgesic. Anesthesia and Analgesia, 2019, 128, 365-373.	2.2	15
38	Fentanyl-related designer drugs W-18 and W-15 lack appreciable opioid activity in vitro and in vivo. JCI Insight, 2017, 2, .	5.0	14
39	Evaluation of Kratom Opioid Derivatives as Potential Treatment Option for Alcohol Use Disorder. Frontiers in Pharmacology, 2021, 12, 764885.	3.5	14
40	MP1104, a mixed kappa-delta opioid receptor agonist has anti-cocaine properties with reduced side-effects in rats. Neuropharmacology, 2019, 150, 217-228.	4.1	13
41	Alternative Pre-mRNA Splicing of the Mu Opioid Receptor Gene, OPRM1: Insight into Complex Mu Opioid Actions. Biomolecules, 2021, 11, 1525.	4.0	12
42	Tetrapeptide Endomorphin Analogs Require Both Full Length and Truncated Splice Variants of the Mu Opioid Receptor Gene Oprm1 for Analgesia. ACS Chemical Neuroscience, 2016, 7, 1717-1727.	3.5	11
43	The antinociceptive effects of a dual kappa-delta opioid receptor agonist in the mouse formalin test. Behavioural Pharmacology, 2020, 31, 174-178.	1.7	9
44	The mixed kappa and delta opioid receptor agonist, MP1104, attenuates chemotherapy-induced neuropathic pain. Neuropharmacology, 2021, 185, 108445.	4.1	9
45	Imaging Sigma-1 Receptor (S1R) Expression Using Iodine-124-Labeled 1-(4-Iodophenyl)-3-(2-adamantyl)guanidine ([124I]IPAG). Molecular Imaging and Biology, 2020, 22, 358-366.	2.6	8
46	Synthesis and Characterization of Azido Aryl Analogs of IBNtxA for Radio-Photoaffinity Labeling Opioid Receptors in Cell Lines and in Mouse Brain. Cellular and Molecular Neurobiology, 2021, 41, 977-993.	3.3	8
47	Synthesis and Pharmacology of Halogenated Î´-Opioid-Selective [<scp>d</scp>-Ala²]Deltorphin II Peptide Analogues. ACS Chemical Neuroscience, 2015, 6, 905-910.	3.5	6
48	Synthesis and pharmacological evaluation of novel selective MOR agonist 6Î²-pyridinyl amidomorphines exhibiting long-lasting antinociception. MedChemComm, 2017, 8, 152-157.	3.4	6
49	Synthesis of spiro-2,6-dioxopiperazine and spiro-2,6-dioxopyrazine scaffolds using amino acids in a three-component reaction to generate potential Sigma-1 (ï*f*1) receptor selective ligands. European Journal of Medicinal Chemistry, 2019, 164, 241-251.	5.5	5
50	Exploration of novel radioiodineâ€labeling techniques for opioid peptides. FASEB Journal, 2010, 24, 581.1.	0.5	0
51	A novel opioid for photoaffinity labeling opioid receptor complexes in nativelyâ€expressing tissues. FASEB Journal, 2015, 29, 772.6.	0.5	0