Mark W Irvine

List of Publications by Year
in descending order

20 papers	717 citations	759190 12 h-index	839512 18 g-index
20 all docs	20 docs citations	20 times ranked	1021 citing authors

#	Article	IF	Citations
1	Pharmacological characterization of a novel negative allosteric modulator of NMDA receptors, UBP792. Neuropharmacology, 2021, 201, 108818.	4.1	0
2	Structural basis of subtype-selective competitive antagonism for GluN2C/2D-containing NMDA receptors. Nature Communications, 2020, 11, 423.	12.8	19
3	Investigation of the structural requirements for N-methyl-D-aspartate receptor positive and negative allosteric modulators based on 2-naphthoic acid. European Journal of Medicinal Chemistry, 2019, 164, 471-498.	5.5	10
4	The NMDA receptor intracellular C-terminal domains reciprocally interact with allosteric modulators. Biochemical Pharmacology, 2019, 159, 140-153.	4.4	13
5	Positive and Negative Allosteric Modulators of <i>N</i>-Methyl-<scp>d</scp>-aspartate (NMDA) Receptors: Structureâ€“Activity Relationships and Mechanisms of Action. Journal of Medicinal Chemistry, 2019, 62, 3-23.	6.4	44
6	The Startle Disease Mutation E103K Impairs Activation of Human Homomeric Î±1 Glycine Receptors by Disrupting an Intersubunit Salt Bridge across the Agonist Binding Site. Journal of Biological Chemistry, 2017, 292, 5031-5042.	3.4	8
7	Mechanism and properties of positive allosteric modulation of N -methyl- d -aspartate receptors by 6-alkyl 2-naphthoic acid derivatives. Neuropharmacology, 2017, 125, 64-79.	4.1	15
8	A single-channel mechanism for pharmacological potentiation of GluN1/GluN2A NMDA receptors. Scientific Reports, 2017, 7, 6933.	3.3	7
9	Multiple roles of GluN2B-containing NMDA receptors in synaptic plasticity in juvenile hippocampus. Neuropharmacology, 2017, 112, 76-83.	4.1	33
10	An interchangeable role for kainate and metabotropic glutamate receptors in the induction of rat hippocampal mossy fiber longâ€term potentiation in vivo. Hippocampus, 2015, 25, 1407-1417.	1.9	5
11	Synthesis of a Series of Novel 3,9-Disubstituted Phenanthrenes as Analogues of Known N-Methyl-d-aspartate Receptor Allosteric Modulators. Synthesis, 2015, 47, 1593-1610.	2.3	9
12	Gating Effects of a Novel Allosteric Modulator at GluN1/GluN2A NMDA Receptors. FASEB Journal, 2015, 29, 933.3.	0.5	0
13	Different NMDA receptor subtypes mediate induction of longâ€term potentiation and two forms of shortâ€term potentiation at CA1 synapses in rat hippocampus <i>in vitro</i>. Journal of Physiology, 2013, 591, 955-972.	2.9	83
14	The NMDA receptor as a target for cognitive enhancement. Neuropharmacology, 2013, 64, 13-26.	4.1	206
15	Piperazine-2,3-dicarboxylic Acid Derivatives as Dual Antagonists of NMDA and GluK1-Containing Kainate Receptors. Journal of Medicinal Chemistry, 2012, 55, 327-341.	6.4	19
16	Structure-activity relationships for allosteric NMDA receptor inhibitors based on 2-naphthoic acid. Neuropharmacology, 2012, 62, 1730-1736.	4.1	33
17	Coumarin-3-carboxylic acid derivatives as potentiators and inhibitors of recombinant and native N-methyl-d-aspartate receptors. Neurochemistry International, 2012, 61, 593-600.	3.8	37
18	A Novel Family of Negative and Positive Allosteric Modulators of NMDA Receptors. Journal of Pharmacology and Experimental Therapeutics, 2010, 335, 614-621.	2.5	80

#	Article	IF	Citations
19	<i>N</i>-Methyl-d-aspartate (NMDA) Receptor NR2 Subunit Selectivity of a Series of Novel Piperazine-2,3-dicarboxylate Derivatives: Preferential Blockade of Extrasynaptic NMDA Receptors in the Rat Hippocampal CA3-CA1 Synapse. Journal of Pharmacology and Experimental Therapeutics, 2009, 331, 618-626.	2.5	46
20	Rhodanine derivatives as novel inhibitors of PDE4. Bioorganic and Medicinal Chemistry Letters, 2008, 18, 2032-2037.	2.2	50