

Igor Spigelman

List of Publications by Year in descending order

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57
papers

3,369
citations

147801

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docs citations

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times ranked

3561
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#	ARTICLE	IF	CITATIONS
1	Withdrawal from Chronic Intermittent Ethanol Treatment Changes Subunit Composition, Reduces Synaptic Function, and Decreases Behavioral Responses to Positive Allosteric Modulators of GABA _A Receptors. <i>Molecular Pharmacology</i> , 2003, 63, 53-64.	2.3	298
2	Status epilepticus-induced hilar basal dendrites on rodent granule cells contribute to recurrent excitatory circuitry. <i>Journal of Comparative Neurology</i> , 2000, 428, 240-253.	1.6	217
3	Cell-permeant Ca ²⁺ chelators reduce early excitotoxic and ischemic neuronal injury in vitro and in vivo. <i>Neuron</i> , 1993, 11, 221-235.	8.1	215
4	Site-specific increases in peripheral cannabinoid receptors and their endogenous ligands in a model of neuropathic pain. <i>Pain</i> , 2006, 126, 102-114.	4.2	184
5	Dihydropyridinone As a Novel Anti-Alcohol Intoxication Medication. <i>Journal of Neuroscience</i> , 2012, 32, 390-401.	3.6	184
6	Chronic Intermittent Ethanol-Induced Switch of Ethanol Actions from Extrasynaptic to Synaptic Hippocampal GABA _A Receptors. <i>Journal of Neuroscience</i> , 2006, 26, 1749-1758.	3.6	145
7	Reduced Inhibition and Sensitivity to Neurosteroids in Hippocampus of Mice Lacking the GABA _A Receptor α 1 Subunit. <i>Journal of Neurophysiology</i> , 2003, 90, 903-910.	1.8	144
8	Mechanisms of Reversible GABA _A Receptor Plasticity after Ethanol Intoxication. <i>Journal of Neuroscience</i> , 2007, 27, 12367-12377.	3.6	139
9	Altered Pharmacology of Synaptic and Extrasynaptic GABA _A Receptors on CA1 Hippocampal Neurons Is Consistent with Subunit Changes in a Model of Alcohol Withdrawal and Dependence. <i>Journal of Pharmacology and Experimental Therapeutics</i> , 2004, 310, 1234-1245.	2.5	121
10	A bioengineered peripheral nerve construct using aligned peptide amphiphile nanofibers. <i>Biomaterials</i> , 2014, 35, 8780-8790.	11.4	120
11	Concurrent release of ATP and substance P within guinea pig trigeminal ganglia in vivo. <i>Brain Research</i> , 2001, 915, 248-255.	2.2	119
12	Persistent reduction of GABA _A receptor-mediated inhibition in rat hippocampus after chronic intermittent ethanol treatment. <i>Brain Research</i> , 1996, 709, 221-228.	2.2	97
13	Induction and Expression of Fear Sensitization Caused by Acute Traumatic Stress. <i>Neuropsychopharmacology</i> , 2016, 41, 45-57.	5.4	89
14	Bidirectional Alterations of Hippocampal Cannabinoid 1 Receptors and Their Endogenous Ligands in a Rat Model of Alcohol Withdrawal and Dependence. <i>Alcoholism: Clinical and Experimental Research</i> , 2007, 31, 855-867.	2.4	83
15	Inflammation-induced changes in primary afferent-evoked release of substance P within trigeminal ganglia in vivo. <i>Brain Research</i> , 2000, 871, 181-191.	2.2	78
16	Stress Increases Voluntary Alcohol Intake, but Does not Alter Established Drinking Habits in a Rat Model of Posttraumatic Stress Disorder. <i>Alcoholism: Clinical and Experimental Research</i> , 2013, 37, 566-574.	2.4	78
17	Mechanism of Action and Persistence of Neuroprotection by Cell-Permeant Ca ²⁺ Chelators. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1994, 14, 911-923.	4.3	71
18	Gene expression signatures affected by alcohol-induced DNA methylomic deregulation in human embryonic stem cells. <i>Stem Cell Research</i> , 2014, 12, 791-806.	0.7	65

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19	Functional Consequences of GABA _A Receptor $\alpha 4$ Subunit Deletion on Synaptic and Extrasynaptic Currents in Mouse Dentate Granule Cells. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 19-26.	2.4	54
20	Peripherally Selective Cannabinoid 1 Receptor (CB1R) Agonists for the Treatment of Neuropathic Pain. <i>Journal of Medicinal Chemistry</i> , 2016, 59, 7525-7543.	6.4	53
21	Chronic epilepsy with damage restricted to the hippocampus: possible mechanisms. <i>Epilepsy Research</i> , 1996, 26, 255-265.	1.6	45
22	Temporal profile of hilar basal dendrite formation on dentate granule cells after status epilepticus. <i>Epilepsy Research</i> , 2003, 54, 141-151.	1.6	44
23	Synthetic peripherally-restricted cannabinoid suppresses chemotherapy-induced peripheral neuropathy pain symptoms by CB1 receptor activation. <i>Neuropharmacology</i> , 2018, 139, 85-97.	4.1	41
24	Ethanol-Induced Plasticity of GABA _A Receptors in the Basolateral Amygdala. <i>Neurochemical Research</i> , 2014, 39, 1162-1170.	3.3	40
25	Hyperosmolar Solutions Selectively Block Action Potentials in Rat Myelinated Sensory Fibers: Implications for Diabetic Neuropathy. <i>Journal of Neurophysiology</i> , 2004, 91, 48-56.	1.8	39
26	Tolerance to Sedative/Hypnotic Actions of GABAergic Drugs Correlates With Tolerance to Potentiation of Extrasynaptic Tonic Currents of Alcohol-Dependent Rats. <i>Journal of Neurophysiology</i> , 2009, 102, 224-233.	1.8	39
27	Plasticity of GABA _A Receptors in Brains of Rats Treated with Chronic Intermittent Ethanol. <i>Neurochemical Research</i> , 2005, 30, 1579-1588.	3.3	38
28	Normal Acute Behavioral Responses to Moderate/High Dose Ethanol in GABA _A Receptor $\alpha 4$ Subunit Knockout Mice. <i>Alcoholism: Clinical and Experimental Research</i> , 2008, 32, 10-18.	2.4	38
29	Plasticity of GABA _A Receptors after Ethanol Pre-Exposure in Cultured Hippocampal Neurons. <i>Molecular Pharmacology</i> , 2011, 79, 432-442.	2.3	36
30	Relationship of Axonal Voltage-gated Sodium Channel 1.8 (NaV1.8) mRNA Accumulation to Sciatic Nerve Injury-induced Painful Neuropathy in Rats. <i>Journal of Biological Chemistry</i> , 2011, 286, 39836-39847.	3.4	36
31	Dihydromyricetin Prevents Fetal Alcohol Exposure-Induced Behavioral and Physiological Deficits: The Roles of GABA _A Receptors in Adolescence. <i>Neurochemical Research</i> , 2014, 39, 1147-1161.	3.3	35
32	Subcutaneous Peripheral Injection of Cationized Gelatin/DNA Polyplexes As a Platform for Non-viral Gene Transfer to Sensory Neurons. <i>Molecular Therapy</i> , 2007, 15, 2124-2131.	8.2	32
33	Effects of alcohol on the membrane excitability and synaptic transmission of medium spiny neurons in the nucleus accumbens. <i>Alcohol</i> , 2012, 46, 317-327.	1.7	31
34	Long-Acting Glucagon-Like Peptide-1 Receptor Agonists Suppress Voluntary Alcohol Intake in Male Wistar Rats. <i>Frontiers in Neuroscience</i> , 2020, 14, 599646.	2.8	30
35	Peripherally restricted cannabinoid 1 receptor agonist as a novel analgesic in cancer-induced bone pain. <i>Pain</i> , 2018, 159, 1814-1823.	4.2	29
36	Circuit-Specific Early Impairment of Proprioceptive Sensory Neurons in the SOD1 ^{G93A} Mouse Model for ALS. <i>Journal of Neuroscience</i> , 2019, 39, 8798-8815.	3.6	29

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37	Substance P Actions on Sensory Neurons. <i>Annals of the New York Academy of Sciences</i> , 1991, 632, 220-228.	3.8	23
38	Atypical features of rat dentate granule cells: recurrent basal dendrites and apical axons. <i>Anatomy and Embryology</i> , 2001, 203, 203-209.	1.5	22
39	Plasticity of GABA _A receptor-mediated neurotransmission in the nucleus accumbens of alcohol-dependent rats. <i>Journal of Neurophysiology</i> , 2014, 112, 39-50.	1.8	22
40	Sex-dependent effects of chronic intermittent voluntary alcohol consumption on attentional, not motivational, measures during probabilistic learning and reversal. <i>PLoS ONE</i> , 2020, 15, e0234729.	2.5	21
41	α2 Subunit-Containing GABA _A Receptor Subtypes Are Upregulated and Contribute to Alcohol-Induced Functional Plasticity in the Rat Hippocampus. <i>Molecular Pharmacology</i> , 2017, 92, 101-112.	2.3	20
42	Microglia-associated granule cell death in the normal adult dentate gyrus. <i>Brain Structure and Function</i> , 2009, 214, 25-35.	2.3	18
43	Selective modulation of GABAergic tonic current by dopamine in the nucleus accumbens of alcohol-dependent rats. <i>Journal of Neurophysiology</i> , 2014, 112, 51-60.	1.8	18
44	Chronic alcohol disrupts hypothalamic responses to stress by modifying CRF and NMDA receptor function. <i>Neuropharmacology</i> , 2020, 167, 107991.	4.1	13
45	Selective targeting of peripheral cannabinoid receptors prevents behavioral symptoms and sensitization of trigeminal neurons in mouse models of migraine and medication overuse headache. <i>Pain</i> , 2021, Publish Ahead of Print, 2246-2262.	4.2	11
46	Molecular consequences of fetal alcohol exposure on amniotic exosomal miRNAs with functional implications for stem cell potency and differentiation. <i>PLoS ONE</i> , 2020, 15, e0242276.	2.5	11
47	A Role for The P2Y1 Receptor in Nonsynaptic Cross-depolarization in the Rat Dorsal Root Ganglia. <i>Neuroscience</i> , 2019, 423, 98-108.	2.3	9
48	Zinc modulation of GABA _A receptor-mediated chloride flux in rat hippocampal slices. <i>Brain Research</i> , 1995, 691, 125-132.	2.2	7
49	Microdialysis in trigeminal ganglia. <i>Brain Research Protocols</i> , 2002, 10, 102-108.	1.6	7
50	Impact of stress resilience and susceptibility on fear learning, anxiety, and alcohol intake. <i>Neurobiology of Stress</i> , 2021, 15, 100335.	4.0	7
51	Dentate granule cells form hilar basal dendrites in a rat model of hypoxia-ischemia. <i>Brain Research</i> , 2009, 1285, 182-187.	2.2	6
52	Role of voltage-gated sodium channels in axonal signal propagation of trigeminal ganglion neurons after infraorbital nerve entrapment. <i>Neurobiology of Pain (Cambridge, Mass)</i> , 2022, 11, 100084.	2.5	5
53	Brain Penetrant, but not Peripherally Restricted, Synthetic Cannabinoid 1 Receptor Agonists Promote Morphine-Mediated Respiratory Depression. <i>Cannabis and Cannabinoid Research</i> , 2021, .	2.9	5
54	Sex differences in α ₂ -adrenergic receptor function contribute to impaired hypothalamic metaplasticity following chronic intermittent ethanol exposure. <i>Alcoholism: Clinical and Experimental Research</i> , 2022, 46, 1384-1396.	2.4	5

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55	Seizure-induced basal dendrites on granule cells. <i>Epilepsia</i> , 2010, 51, 43-43.	5.1	2
56	Intravenously administered cell-permeant calcium buffer decreases evoked synaptic potentials in rat dentate gyrus in vivo. <i>Brain Research</i> , 1998, 810, 269-273.	2.2	1
57	Interleukin 10 (IL-10) inhibits GABAergic transmission in rat hippocampal neurons by a mechanism involving phosphatidylinositol 3-kinase. <i>FASEB Journal</i> , 2012, 26, lb571.	0.5	0