

Efrain C Azmitia

List of Publications by Year in descending order

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100
papers

7,999
citations

53751

45
h-index

48277

88
g-index

103
all docs

103
docs citations

103
times ranked

4627
citing authors

#	ARTICLE	IF	CITATIONS
1	An autoradiographic analysis of the differential ascending projections of the dorsal and median raphe nuclei in the rat. <i>Journal of Comparative Neurology</i> , 1978, 179, 641-667.	0.9	1,812
2	Modern views on an ancient chemical: serotonin effects on cell proliferation, maturation, and apoptosis. <i>Brain Research Bulletin</i> , 2001, 56, 413-424.	1.4	444
3	Stimulation of astroglial 5-HT1A receptors releases the serotonergic growth factor, protein S-100, and alters astroglial morphology. <i>Brain Research</i> , 1990, 528, 155-158.	1.1	299
4	Cellular localization of the 5-HT receptor in primate brain neurons and glial cells. <i>Neuropsychopharmacology</i> , 1996, 14, 35-46.	2.8	270
5	Localization of 5-HT1A receptors to astroglial cells in adult rats: Implications for neuronal-glial interactions and psychoactive drug mechanism of action. <i>Synapse</i> , 1993, 14, 201-205.	0.6	229
6	Adrenalcortical influence on rat brain tryptophan hydroxylase activity. <i>Brain Research</i> , 1974, 78, 291-302.	1.1	183
7	Microcultures of Dissociated Primary Central Nervous System Neurons. <i>Methods in Neurosciences</i> , 1990, 2, 263-275.	0.5	178
8	The substituted amphetamines 3,4-methylenedioxymethamphetamine, methamphetamine, p-chloroamphetamine and fenfluramine induce 5-hydroxytryptamine release via a common mechanism blocked by fluoxetine and cocaine. <i>European Journal of Pharmacology</i> , 1992, 215, 153-160.	1.7	177
9	Autoregulation of fetal serotonergic neuronal development: Role of high affinity serotonin receptors. <i>Neuroscience Letters</i> , 1986, 67, 307-312.	1.0	152
10	Stimulation of astroglial serotonin receptors produces culture media which regulates growth of serotonergic neurons. <i>Brain Research</i> , 1989, 497, 80-85.	1.1	138
11	Postnatal changes in serotonin1 receptors following prenatal alterations in serotonin levels: further evidence for functional fetal serotonin1 receptors. <i>Developmental Brain Research</i> , 1987, 33, 285-289.	2.1	134
12	MDMA (Ecstasy) Inhibition of MAO Type A and Type B: Comparisons with Fenfluramine and Fluoxetine (Prozac). <i>Neuropsychopharmacology</i> , 1994, 10, 231-238.	2.8	130
13	Serotonin and Brain: Evolution, Neuroplasticity, and Homeostasis. <i>International Review of Neurobiology</i> , 2007, 77, 31-56.	0.9	128
14	Structural and functional restoration by collateral sprouting of hippocampal 5-HT axons. <i>Nature</i> , 1978, 274, 374-376.	13.7	127
15	Transgenic mice overexpressing the neurotrophic factor S-100 β show neuronal cytoskeletal and behavioral signs of altered aging processes: implications for Alzheimer's disease and Down's syndrome. <i>Brain Research</i> , 1997, 776, 51-60.	1.1	121
16	Atlas of serotonergic cell bodies in the cat brainstem: An immunocytochemical analysis. <i>Brain Research Bulletin</i> , 1984, 13, 1-31.	1.4	120
17	Hippocampal serotonin re-uptake and nocturnal locomotor activity after microinjections of 5,7-DHT in the fornix-fimbria. <i>Brain Research</i> , 1981, 207, 95-107.	1.1	114
18	The skin as a mirror of the soul: exploring the possible roles of serotonin. <i>Experimental Dermatology</i> , 2008, 17, 301-311.	1.4	106

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19	5-HT1A agonist and dexamethasone reversal of para-chloroamphetamine induced loss of MAP-2 and synaptophysin immunoreactivity in adult rat brain. <i>Brain Research</i> , 1995, 677, 181-192.	1.1	105
20	Increased serotonin axons (immunoreactive to 5-HT transporter) in postmortem brains from young autism donors. <i>Neuropharmacology</i> , 2011, 60, 1347-1354.	2.0	96
21	Enhanced spatial discrimination learning in rats following 5,7-DHT-induced serotonergic deafferentation of the hippocampus. <i>Brain Research</i> , 1990, 518, 61-66.	1.1	92
22	Recovery of memory following amnesia in the rat and mouse.. <i>Journal of Comparative and Physiological Psychology</i> , 1972, 79, 360-370.	1.8	90
23	The immunocytochemical localization of serotonergic neurons in the rat hypothalamus. <i>Neuroscience Letters</i> , 1981, 24, 227-232.	1.0	90
24	Pyramidal cell axons show a local specialization for GABA and 5-HT inputs in monkey and human cerebral cortex. <i>Journal of Comparative Neurology</i> , 2001, 433, 148-155.	0.9	84
25	Prenatal cocaine decreases the trophic factor S-100 β and induced microcephaly: Reversal by postnatal 5-HT1A receptor agonist. <i>Neuroscience Letters</i> , 1994, 170, 141-144.	1.0	82
26	Glial fibrillary acidic protein immunoreactive astrocytes in developing rat hippocampus. <i>Mechanisms of Ageing and Development</i> , 2002, 123, 481-490.	2.2	74
27	Serotonin1AReceptors at the Axon Initial Segment of Prefrontal Pyramidal Neurons in Schizophrenia. <i>American Journal of Psychiatry</i> , 2004, 161, 739-742.	4.0	73
28	Induced homotypic sprouting of serotonergic fibers in hippocampus. II. An immunocytochemistry study. <i>Brain Research</i> , 1986, 373, 337-348.	1.1	72
29	Induced homotypic collateral sprouting of serotonergic fibers in the hippocampus of rat. <i>Brain Research</i> , 1984, 308, 53-62.	1.1	69
30	Formation of a glial scar following microinjection of fetal neurons into the hippocampus or midbrain of the adult rat: An immunocytochemical study. <i>Neuroscience Letters</i> , 1983, 38, 145-150.	1.0	67
31	Role of High Affinity Serotonin Receptors in Neuronal Growth. <i>Annals of the New York Academy of Sciences</i> , 1990, 600, 315-330.	1.8	67
32	Regeneration of serotonergic fibers in the rat hypothalamus following unilateral 5,7-dihydroxytryptamine injection. <i>Brain Research</i> , 1984, 298, 273-282.	1.1	64
33	Developmental microglial priming in postmortem autism spectrum disorder temporal cortex. <i>Brain, Behavior, and Immunity</i> , 2017, 62, 193-202.	2.0	64
34	Intrahypothalamic 5,7-dihydroxytryptamine: Temporal analysis of effects on 5-hydroxytryptamine content in brain nuclei and on facilitated lordosis behavior. <i>Brain Research</i> , 1985, 340, 127-133.	1.1	61
35	Glial-derived S100 β protein selectively inhibits recombinant I β protein kinase C (PKC) phosphorylation of neuron-specific protein F1/GAP43. <i>Molecular Brain Research</i> , 1994, 21, 62-66.	2.5	59
36	Intrahypothalamic 5,7-dihydroxytryptamine facilitates feminine sexual behavior and decreases [3H]imipramine binding and 5-HT uptake. <i>Brain Research</i> , 1983, 264, 344-348.	1.1	54

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37	The effect of intracerebral injections of 5,7-dihydroxytryptamine and 6-hydroxydopamine on the serotonin-immunoreactive cell bodies and fibers in the adult rat hypothalamus. <i>Brain Research</i> , 1983, 261, 91-99.	1.1	54
38	Dystrophic serotonergic axons in neurodegenerative diseases. <i>Brain Research</i> , 2008, 1217, 185-194.	1.1	54
39	Effects of 5,7-dihydroxytryptamine on HRP retrograde transport from hippocampus to midbrain raphe nuclei in the rat. <i>Brain Research Bulletin</i> , 1983, 10, 445-451.	1.4	53
40	[3H]5-Hydroxytryptamine Binding to Brain Astroglial Cells: Differences Between Intact and Homogenized Preparations and Mature and Immature Cultures. <i>Journal of Neurochemistry</i> , 1986, 46, 1186-1189.	2.1	53
41	Activation of glycogen phosphorylase by serotonin and 3,4-methylenedioxymethamphetamine in astroglial-rich primary cultures: involvement of the 5-HT _{2A} receptor. <i>Brain Research</i> , 1995, 680, 9-15.	1.1	53
42	Chapter 27 ACTH neuropeptide stimulation of serotonergic neuronal maturation in tissue culture: modulation by hippocampal cells. <i>Progress in Brain Research</i> , 1987, 72, 311-318.	0.9	51
43	Bilateral serotonergic projections to the dorsal hippocampus of the rat: Simultaneous localization of 3H-5HT and HRP after retrograde transport. <i>Journal of Comparative Neurology</i> , 1981, 203, 737-743.	0.9	47
44	Fetal raphe neurons grafted into the hippocampus develop normal adult physiological properties. <i>Brain Research</i> , 1986, 364, 162-166.	1.1	47
45	Antipeptide antibodies against the 5-HT _{1A} receptor. <i>Journal of Chemical Neuroanatomy</i> , 1992, 5, 289-298.	1.0	47
46	Expression of serotonergic receptors in psoriatic skin. <i>Archives of Dermatological Research</i> , 2006, 298, 99-106.	1.1	47
47	Neuronal instability: implications for Rett's syndrome. <i>Brain and Development</i> , 2001, 23, S1-S10.	0.6	46
48	Colchicine-induced cytoskeletal collapse and apoptosis in N-18 neuroblastoma cultures is rapidly reversed by applied S-100 β . <i>Brain Research</i> , 2001, 912, 9-16.	1.1	46
49	Contribution of olivofloccular circuitry developmental defects to atypical gaze in autism. <i>Brain Research</i> , 2013, 1512, 106-122.	1.1	46
50	Rapid serotonergic fiber sprouting in response to ibotenic acid lesion in the striatum and hippocampus. <i>Developmental Brain Research</i> , 1995, 84, 89-98.	2.1	45
51	Enhanced synaptophysin immunoreactivity in rat hippocampal culture by 5-HT _{1A} agonist, S100 β , and corticosteroid receptor agonists. , 1996, 23, 1-9.		45
52	Prenatal cocaine delays astroglial maturation: immunodensitometry shows increased markers of immaturity (vimentin and GAP-43) and decreased proliferation and production of the growth factor S-100. <i>Developmental Brain Research</i> , 1996, 91, 268-273.	2.1	44
53	Neuro-glial neurotrophic interaction in the S-100 β retarded mutant mouse (Polydactyly Nagoya). I. Immunocytochemical and neurochemical studies. <i>Brain Research</i> , 1994, 633, 275-283.	1.1	43
54	Differential effects of prenatal and postnatal acth or nicotine exposure on 5-HT high affinity uptake in the neonatal rat brain. <i>International Journal of Developmental Neuroscience</i> , 1991, 9, 281-286.	0.7	41

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55	Deviations in brain early serotonergic development as a result of fetal alcohol exposure. <i>Neurotoxicity Research</i> , 2002, 4, 337-342.	1.3	41
56	Loss of 5-HT1A receptor mRNA in the dentate gyrus of the long-term adrenalectomized rats and rapid reversal by dexamethasone. <i>Molecular Brain Research</i> , 1993, 19, 328-332.	2.5	40
57	Dystrophic Serotonin Axons in Postmortem Brains from Young Autism Patients. <i>Anatomical Record</i> , 2011, 294, 1653-1662.	0.8	40
58	Serotonin turnover in raphe neurons transplanted into rat hippocampus. <i>Neuroscience Letters</i> , 1985, 61, 147-152.	1.0	38
59	Trophic interactions between brain-derived neurotrophic factor and S100 β on cultured serotonergic neurons. <i>Brain Research</i> , 2000, 868, 113-118.	1.1	36
60	Increased 5-HT1A receptor immunoreactivity in the rat hippocampus following 5,7-dihydroxytryptamine lesions in the cingulum bundle and fimbria-fornix. <i>Behavioural Brain Research</i> , 1995, 73, 319-323.	1.2	35
61	Chapter 39: S100 β and serotonin: a possible astrocytic-neuronal link to neuropathology of Alzheimer's disease. <i>Progress in Brain Research</i> , 1992, , 459-473.	0.9	33
62	Age Related Changes in NGF, EGF and Protease in the Granular Convoluted Tubules of the Mouse Submandibular Gland. A Morphological and Immunocytochemical Study. <i>Journal of Gerontology</i> , 1980, 35, 520-524.	2.0	31
63	The effect of adrenalectomy and corticosterone on homotypic collateral sprouting of serotonergic fibers in hippocampus. <i>Neuroscience Letters</i> , 1985, 54, 111-116.	1.0	31
64	Activation of Protein Kinase C (PKC) by 3,4-Methylenedioxymethamphetamine (MDMA) Occurs Through the Stimulation of Serotonin Receptors and Transporter. <i>Neuropsychopharmacology</i> , 1997, 17, 117-129.	2.8	31
65	Neuro-glial neurotrophic interaction in the S-100 β retarded mutant mouse (Polydactyly Nagoya). II. Co-cultures study. <i>Brain Research</i> , 1994, 633, 284-288.	1.1	29
66	Plasticity of Fetal and Adult CNS Serotonergic Neurons: Role of Growth-Regulatory Factors. <i>Annals of the New York Academy of Sciences</i> , 1990, 600, 343-363.	1.8	28
67	In vitro release of [3H]5-hydroxytryptamine from fetal and maternal brain by drugs of abuse. <i>Developmental Brain Research</i> , 1994, 78, 142-146.	2.1	27
68	Cajal and brain plasticity: Insights relevant to emerging concepts of mind. <i>Brain Research Reviews</i> , 2007, 55, 395-405.	9.1	26
69	Adult development of the hippocampal-serotonin system of C57BL/6N mice; analysis of high-affinity uptake of 3H-5HT in slices and synaptosomes. <i>Neurochemistry International</i> , 1983, 5, 39-44.	1.9	25
70	S100 β promotes the extension of microtubule associated protein2 (MAP2)-immunoreactive neurites retracted after colchicine treatment in rat spinal cord culture. <i>Neuroscience Letters</i> , 1997, 229, 212-214.	1.0	24
71	Tryptophan hydroxylase in hippocampus and midbrain following unilateral injection of 5,7-dihydroxytryptamine. <i>Brain Research</i> , 1984, 307, 125-133.	1.1	23
72	Rapid neurotrophic actions of an ACTH/MSH(4-9) analogue after nigrostriatal 6-OHDA lesioning. <i>Peptides</i> , 1993, 14, 1317-1324.	1.2	23

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73	Agonist- and antagonist-induced plasticity of rat 5-HT1A receptor in hippocampal cell culture. , 1999, 31, 186-195.		23
74	Use of tissue culture models to study neuronal regulatory trophic and toxic factors in the aged brain. <i>Neurobiology of Aging</i> , 1988, 9, 743-758.	1.5	22
75	Chapter 8 Cajal's hypotheses on neurobionics and neurotropic factor match properties of microtubules and S-100 β . <i>Progress in Brain Research</i> , 2002, 136, 87-100.	0.9	22
76	3,4-methylenedioxymethamphetamine (â€ˆEcstasyâ€™™) promotes the translocation of protein kinase C (PKC): requirement of viable serotonin nerve terminals. <i>Brain Research</i> , 1995, 680, 1-8.	1.1	21
77	Evolution of Serotonin: Sunlight to Suicide. <i>Handbook of Behavioral Neuroscience</i> , 2010, 21, 3-22.	0.7	21
78	Transplanted raphe and hippocampal fetal neurons do not displace afferent inputs to the dorsal hippocampus from serotonergic neurons in the median raphe nucleus of the rat. <i>Brain Research</i> , 1988, 450, 51-59.	1.1	20
79	Specificity versus Redundancy of Melanocortins in Nerve Regeneration. <i>Annals of the New York Academy of Sciences</i> , 1994, 739, 60-73.	1.8	20
80	Tryptophan hydroxylase changes in midbrain of the rat after chronic morphine administration. <i>Life Sciences</i> , 1970, 9, 633-637.	2.0	19
81	5-HT1A receptor expression is modulated by corticosteroid receptor agonists in primary rat hippocampal culture. <i>Brain Research</i> , 1996, 722, 190-194.	1.1	19
82	Dexamethasone Reverses Adrenalectomyâ€™-induced Neuronal Deâ€™differentiation in Midbrain Rapheâ€™Hippocampus Axis. <i>Annals of the New York Academy of Sciences</i> , 1994, 746, 180-193.	1.8	18
83	5-HT1A receptor agonist reverses adrenalectomy-induced loss of granule neuronal morphology in the rat dentate gyrus. <i>Neurochemical Research</i> , 1997, 22, 1329-1337.	1.6	15
84	Homologous regulation of 5-HT1A receptor mRNA in adult rat hippocampal dentate gyrus. <i>Neuroscience Letters</i> , 1999, 270, 5-8.	1.0	15
85	Evolution of serotonin: sunlight to suicide. <i>Handbook of Behavioral Neuroscience</i> , 2020, , 3-22.	0.7	15
86	Chapter 54 Laminin directs and facilitates migration and fiber growth of transplanted serotonin and norepinephrine neurons in adult brain. <i>Progress in Brain Research</i> , 1988, 78, 413-426.	0.9	14
87	Age-related changes in EGF and protease in submandibular glands of C57BL/6J mice. <i>Experimental Aging Research</i> , 1982, 8, 87-90.	0.6	12
88	Role of neuropeptide Y projection on the development of serotonergic innervation in the suprachiasmatic nucleus of the rat, shown by triple intraocular grafts. <i>Brain Research</i> , 1995, 673, 325-330.	1.1	12
89	Growth inhibitory effects of a mu opioid on cultured cholinergic neurons from fetal rat ventral forebrain, brainstem, and spinal cord. <i>Developmental Brain Research</i> , 1999, 114, 69-77.	2.1	12
90	Impact of Drugs and Alcohol on the Brain Through the Life Cycle. <i>Journal of Social Work Practice in the Addictions</i> , 2001, 1, 41-63.	0.4	12

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91	The SATOL Project. Journal of Evidence-based Social Work, 2006, 3, 39-54.	0.7	10
92	Intraocular co-grafts of fetal dorsal raphe nucleus and suprachiasmatic nucleus. Brain Research, 1993, 605, 181-186.	1.1	9
93	Neuro-glial neurotrophic interaction in the S-100 β retarded mutant mouse (Polydactyly Nagoya). III. Transplantation study. Brain Research, 1996, 738, 15-23.	1.1	8
94	Gender-specific 5-HT1A receptor changes in BrdU nuclear labeling patterns in neonatal dentate gyrus. Developmental Brain Research, 2005, 157, 65-73.	2.1	4
95	Steroid Regulation of Neurotrophic Activity: Primary Microcultures of Midbrain Raphe and Hippocampus. Methods in Neurosciences, 1994, 22, 359-371.	0.5	3
96	Age-Related Changes in EGF and Protease in Submandibular Glands of C57BL/6J Mice. Gerodontology, 1982, 1, 81-84.	0.8	2
97	Searching for an ill-defined brain function results in an uneasy reconciliation. Behavioral and Brain Sciences, 1986, 9, 335-336.	0.4	1
98	The Role of 5-HT1A Receptors in Development and Adult Plasticity of the Serotonergic System. , 1993, , 207-213.		1
99	Istvan TÁrk 1939-1992. Journal of Comparative Neurology, 1993, 333, 149-150.	0.9	0
100	Serotonin 1A receptor coupling to NF- κ B studied using inducible receptor expression in hippocampal neuron-derived cells. Signal Transduction, 2007, 7, 260-269.	0.7	0