

Axel Becker

List of Publications by Year in descending order

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115
papers

4,142
citations

117625

34
h-index

133252

59
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116
all docs

116
docs citations

116
times ranked

4048
citing authors

#	ARTICLE	IF	CITATIONS
1	Ketamine-induced changes in rat behaviour: A possible animal model of schizophrenia. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2003, 27, 687-700.	4.8	253
2	Repeated application of ketamine to rats induces changes in the hippocampal expression of parvalbumin, neuronal nitric oxide synthase and cFOS similar to those found in human schizophrenia. <i>Neuroscience</i> , 2004, 126, 591-598.	2.3	182
3	Social behaviour in rats lesioned with ibotenic acid in the hippocampus: quantitative and qualitative analysis. <i>Psychopharmacology</i> , 1999, 144, 333-338.	3.1	179
4	Transient prenatal vitamin D deficiency is associated with subtle alterations in learning and memory functions in adult rats. <i>Behavioural Brain Research</i> , 2005, 161, 306-312.	2.2	156
5	Transient prenatal Vitamin D deficiency is associated with hyperlocomotion in adult rats. <i>Behavioural Brain Research</i> , 2004, 154, 549-555.	2.2	131
6	Glutamate Binding to Brain Membranes Is Increased in Pentylentetrazole-Kindled Rats. <i>Journal of Neurochemistry</i> , 1993, 60, 1007-1011.	3.9	127
7	Ketamine-induced changes in rat behaviour: a possible animal model of schizophrenia. Test of predictive validity. <i>Progress in Neuro-Psychopharmacology and Biological Psychiatry</i> , 2004, 28, 1267-1277.	4.8	122
8	Kindling and its consequences on learning in rats. <i>Behavioral and Neural Biology</i> , 1992, 57, 37-43.	2.2	113
9	Rewarding effects of ethanol and cocaine in μ opioid receptor-deficient mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2002, 365, 296-302.	3.0	112
10	Cell Proliferation is Influenced by Bulbectomy and Normalized by Imipramine Treatment in a Region-Specific Manner. <i>Neuropsychopharmacology</i> , 2006, 31, 1165-1176.	5.4	101
11	Disruption of Latent Inhibition in Rats with Postnatal Hippocampal Lesions. <i>Neuropsychopharmacology</i> , 1999, 20, 525-532.	5.4	97
12	Increased neurogenesis in a rat ketamine model of schizophrenia. <i>Biological Psychiatry</i> , 2004, 56, 317-322.	1.3	95
13	Dopamine D1-deficient mutant mice do not express the late phase of hippocampal long-term potentiation. <i>NeuroReport</i> , 1997, 8, 3533-3535.	1.2	93
14	Morphine self-administration in μ -opioid receptor-deficient mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2000, 361, 584-589.	3.0	76
15	Influence of olfactory bulbectomy and subsequent imipramine treatment on 5-hydroxytryptaminergic presynapses in the rat frontal cortex: behavioural correlates. <i>British Journal of Pharmacology</i> , 1997, 122, 1725-1731.	5.4	68
16	Alterations of the dopaminergic and glutamatergic neurotransmission in adult rats with postnatal ibotenic acid hippocampal lesion. <i>Psychopharmacology</i> , 1999, 145, 61-66.	3.1	68
17	Piracetam prevents pentylentetrazol kindling-induced neuronal loss and learning deficits. <i>Seizure: the Journal of the British Epilepsy Association</i> , 1997, 6, 467-474.	2.0	66
18	Development of tolerance and sensitization to different opioid agonists in rats. <i>Psychopharmacology</i> , 2006, 186, 177-184.	3.1	59

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19	Serotonergic hyperinnervation of the frontal cortex in an animal model of depression, the bulbectomized rat. <i>Journal of Neuroscience Research</i> , 1998, 54, 109-116.	2.9	56
20	Transient prenatal vitamin D deficiency is associated with changes of synaptic plasticity in the dentate gyrus in adult rats. <i>Psychoneuroendocrinology</i> , 2009, 34, S258-S264.	2.7	55
21	Risperidone and haloperidol promote survival of stem cells in the rat hippocampus. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2010, 260, 151-162.	3.2	55
22	Analgesic Tolerance to High-Efficacy Agonists But Not to Morphine Is Diminished in Phosphorylation-Deficient S375A μ -Opioid Receptor Knock-In Mice. <i>Journal of Neuroscience</i> , 2011, 31, 13890-13896.	3.6	55
23	The anxiolytic effects of a Valerian extract is based on Valerenic acid. <i>BMC Complementary and Alternative Medicine</i> , 2014, 14, 267.	3.7	48
24	Behavioral and neurochemical characterization of kratom (<i>Mitragyna speciosa</i>) extract. <i>Psychopharmacology</i> , 2014, 231, 13-25.	3.1	47
25	N ^ω -nitro-L-arginine methyl ester interferes with pentylenetetrazol-induced kindling and has no effect on changes in glutamate binding. <i>Brain Research</i> , 1995, 688, 230-232.	2.2	43
26	Illumination has no effect on rats' behavior in the elevated plus-maze. <i>Physiology and Behavior</i> , 1996, 59, 1175-1177.	2.1	41
27	Vagus nerve stimulation ameliorated deficits in one-way active avoidance learning and stimulated hippocampal neurogenesis in bulbectomized rats. <i>Brain Stimulation</i> , 2013, 6, 78-83.	1.6	41
28	Extracellular matrix alterations in the ketamine model of schizophrenia. <i>Neuroscience</i> , 2017, 350, 13-22.	2.3	41
29	Lack of expression of long-term potentiation in the dentate gyrus but not in the CA1 region of the hippocampus of μ -opioid receptor-deficient mice. <i>Neuropharmacology</i> , 2000, 39, 952-960.	4.1	38
30	Pentylenetetrazol-kindling Modulates Stimulated Dopamine Release in the Nucleus Accumbens of Rats. <i>Pharmacology Biochemistry and Behavior</i> , 2000, 66, 425-428.	2.9	37
31	Group I metabotropic glutamate receptors interfere in different ways with pentylenetetrazole seizures, kindling, and kindling-related learning deficits. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004, 370, 26-34.	3.0	37
32	Antiepileptic drugs – Their effects on kindled seizures and kindling-induced learning impairments. <i>Pharmacology Biochemistry and Behavior</i> , 1995, 52, 453-459.	2.9	36
33	Sensitivity and density of glutamate receptor subtypes in the hippocampal formation are altered in pentylenetetrazole - kindled rats. <i>Experimental Brain Research</i> , 1998, 120, 527-530.	1.5	36
34	The influence of diazepam on learning processes impaired by pentylenetetrazol kindling. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1994, 349, 492-496.	3.0	35
35	Protective effects of cortistatin (CST-14) against kainate-induced neurotoxicity in rat brain. <i>Brain Research</i> , 1998, 803, 54-60.	2.2	35
36	Cellular changes in rat brain areas associated with neonatal hippocampal damage. <i>NeuroReport</i> , 1999, 10, 2307-2311.	1.2	35

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37	Loss of locomotor sensitisation in response to morphine in D1 receptor deficient mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2001, 363, 562-568.	3.0	35
38	Association Between Research Sponsorship and Study Outcome in Plastic Surgery Literature. <i>Annals of Plastic Surgery</i> , 2009, 63, 661-664.	0.9	35
39	Kindling of the Dorsal and the Ventral Hippocampus: Effects on Learning Performance in Rats. <i>Physiology and Behavior</i> , 1997, 62, 1265-1271.	2.1	34
40	Brain region-specific changes in the expression of calcium sensor proteins after repeated applications of ketamine to rats. <i>Neuroscience Letters</i> , 2003, 339, 95-98.	2.1	34
41	Intranasal Application of Vasopressin Fails to Elicit Changes in Brain Immediate Early Gene Expression, Neural Activity and Behavioural Performance of Rats. <i>Journal of Neuroendocrinology</i> , 2013, 25, 655-667.	2.6	34
42	Behavioral and anticonvulsant effects of the standardized extract of <i>Ficus platyphylla</i> stem bark. <i>Journal of Ethnopharmacology</i> , 2014, 154, 351-360.	4.1	34
43	The effect of pentylenetetrazol kindling on synaptic mechanisms of interacting glutamatergic and opioid system in the hippocampus of rats. <i>Brain Research</i> , 1998, 811, 40-46.	2.2	33
44	Valerian extract characterized by high valerenic acid and low acetoxyl valerenic acid contents demonstrates anxiolytic activity. <i>Phytomedicine</i> , 2012, 19, 1216-1222.	5.3	33
45	Potentiation effects in the dentate gyrus of pentylenetetrazol-kindled rats. <i>Physiology and Behavior</i> , 1996, 60, 455-462.	2.1	32
46	Social memory is impaired in neonatally ibotenic acid lesioned rats. <i>Behavioural Brain Research</i> , 2000, 109, 137-140.	2.2	31
47	Evidence-Based Plastic Surgery. <i>Annals of Plastic Surgery</i> , 2009, 62, 293-296.	0.9	31
48	Gangliosides improve a memory deficit in pentylenetetrazol-kindled rats. <i>Pharmacology Biochemistry and Behavior</i> , 1991, 39, 825-828.	2.9	30
49	Improved Learning and Memory in Aged Mice Deficient in Amyloid β -Degrading Neutral Endopeptidase. <i>PLoS ONE</i> , 2009, 4, e4590.	2.5	30
50	Haloperidol normalized prenatal vitamin D depletion-induced reduction of hippocampal cell proliferation in adult rats. <i>Neuroscience Letters</i> , 2010, 476, 94-98.	2.1	29
51	Effect of Age on Pentylenetetrazol-Kindling and Kindling-Induced Impairments of Learning Performance. <i>Pharmacology Biochemistry and Behavior</i> , 1997, 56, 595-601.	2.9	28
52	DIAZEPAM'S EFFECTS ON THE DEVELOPMENT OF PENTYLENETETRAZOL KINDLING, RELATED LEARNING IMPAIRMENTS, AND NEURONAL CELL LOSS. <i>Pharmacological Research</i> , 1997, 35, 27-32.	7.1	26
53	Haloperidol and clozapine affect social behaviour in rats postnatally lesioned in the ventral hippocampus. <i>Pharmacology Biochemistry and Behavior</i> , 2003, 76, 1-8.	2.9	26
54	Pharmacological treatment to augment hole board habituation in prenatal Vitamin D-deficient rats. <i>Behavioural Brain Research</i> , 2006, 166, 177-183.	2.2	26

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55	Pain sensitivity is altered in animals after subchronic ketamine treatment. <i>Psychopharmacology</i> , 2006, 189, 237-247.	3.1	26
56	Pentylentetrazol-kindling in mice overexpressing heat shock protein 70. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2007, 375, 115-121.	3.0	26
57	Evaluation of the effects of <i>Astragalus mongholicus</i> Bunge saponin extract on central nervous system functions. <i>Journal of Ethnopharmacology</i> , 2010, 131, 544-549.	4.1	25
58	Strain differences in pentylentetrazol-kindling development and subsequent potentiation effects. <i>Brain Research</i> , 1997, 763, 87-92.	2.2	22
59	Effects of enadoline on the development of pentylentetrazol kindling, learning performance, and hippocampal morphology. <i>Brain Research</i> , 1999, 823, 191-197.	2.2	22
60	Repeated administration of group I mGluR antagonists prevents seizure-induced long-term aberrations in hippocampal synaptic plasticity. <i>Neuropharmacology</i> , 2005, 49, 179-187.	4.1	22
61	The neuroprotective effects and possible mechanism of action of a methanol extract from <i>Asparagus cochinchinensis</i> : In vitro and in vivo studies. <i>Neuroscience</i> , 2016, 322, 452-463.	2.3	22
62	Nipple Reconstruction: Evidence-Based Trials in the Plastic Surgical Literature. <i>Aesthetic Plastic Surgery</i> , 2008, 32, 18-20.	0.9	20
63	Fine structure analysis of perineuronal nets in the ketamine model of schizophrenia. <i>European Journal of Neuroscience</i> , 2021, 53, 3988-4004.	2.6	20
64	3H-I-Glutamate Binding and 3H-d-Aspartate Release From Hippocampal Tissue During the Development of Pentylentetrazole Kindling in Rats. <i>Pharmacology Biochemistry and Behavior</i> , 1999, 62, 349-352.	2.9	19
65	Evidence-Based Plastic and Reconstructive Surgery. <i>Plastic and Reconstructive Surgery</i> , 2013, 132, 657e-663e.	1.4	19
66	Naloxone Ameliorates the Learning Deficit Induced by Pentylentetrazol Kindling in Rats. <i>European Journal of Neuroscience</i> , 1994, 6, 1512-1515.	2.6	18
67	Evidence-Based Plastic Surgery. <i>Annals of Plastic Surgery</i> , 2008, 61, 221-225.	0.9	18
68	Haloperidol and risperidone have specific effects on altered pain sensitivity in the ketamine model of schizophrenia. <i>Psychopharmacology</i> , 2009, 202, 579-587.	3.1	18
69	Short-term rebound anxiolytic effects and long-term changes in platelet benzodiazepine binding after pentylentetrazole-kindling in two strains of rat. <i>Anxiety</i> , 1996, 2, 109-116.	0.4	17
70	Emotional and learning behaviour in mice overexpressing heat shock protein 70. <i>Neurobiology of Learning and Memory</i> , 2008, 90, 358-364.	1.9	17
71	Expression of mRNA of Neurotrophic Factors and their Receptors are Significantly Altered After Subchronic Ketamine Treatment. <i>Medicinal Chemistry</i> , 2008, 4, 256-263.	1.5	17
72	Effects of anticonvulsive drugs on pentylentetrazol kindling and long-term potentiation in freely moving rats. <i>European Journal of Pharmacology</i> , 1998, 356, 179-187.	3.5	16

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73	Methanol extract of <i>Ficus platyphylla</i> ameliorates seizure severity, cognitive deficit and neuronal cell loss in pentylenetetrazole-kindled mice. <i>Phytomedicine</i> , 2015, 22, 86-93.	5.3	16
74	Involvement of δ -opioid receptors in pentylenetetrazol kindling development and kindling-related processes in rats. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 1999, 360, 151-156.	3.0	15
75	Flunarizine " Its effect on pentylenetetrazol-kindled seizures and on related cognitive disturbances. <i>Pharmacology Biochemistry and Behavior</i> , 1995, 52, 765-769.	2.9	14
76	Kindling modifies morphine, cocaine and ethanol place preference. <i>Experimental Brain Research</i> , 2006, 168, 33-40.	1.5	14
77	Endogenous opioids inhibit ischemia-induced generation of immature hippocampal neurons via the μ -opioid receptor. <i>European Journal of Neuroscience</i> , 2008, 27, 1311-1319.	2.6	14
78	Insulin-regulated aminopeptidase immunoreactivity is abundantly present in human hypothalamus and posterior pituitary gland, with reduced expression in paraventricular and suprachiasmatic neurons in chronic schizophrenia. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2017, 267, 427-443.	3.2	14
79	Pentylenetetrazole Kindling Affects Sleep in Rats. <i>Epilepsia</i> , 2006, 47, 2075-2082.	5.1	13
80	Beacon-like/ubiquitin-5-like immunoreactivity is highly expressed in human hypothalamus and increased in haloperidol-treated schizophrenics and a rat model of schizophrenia. <i>Psychoneuroendocrinology</i> , 2008, 33, 340-351.	2.7	13
81	Ampullosporin A, a peptaibol from <i>Sepedonium ampullosporum</i> HKI-0053 with neuroleptic-like activity. <i>Behavioural Brain Research</i> , 2009, 203, 232-239.	2.2	13
82	Time-course of neuropathic pain in mice deficient in neuronal or inducible nitric oxide synthase. <i>Neuroscience Research</i> , 2013, 77, 215-221.	1.9	13
83	Differences Between Two Substrains of AB Mice in the Opioid System. <i>Pharmacology Biochemistry and Behavior</i> , 1997, 58, 763-766.	2.9	12
84	Low doses of AMPA exert anticonvulsant effects on pentylenetetrazol-kindled seizures. <i>Pharmacology Biochemistry and Behavior</i> , 2001, 70, 421-426.	2.9	12
85	Phosphodiesterase inhibitors" Are they potential neuroleptic drugs?. <i>Behavioural Brain Research</i> , 2008, 186, 155-160.	2.2	12
86	Effects of Antipsychotics on Dentate Gyrus Stem Cell Proliferation and Survival in Animal Models: A Critical Update. <i>Neural Plasticity</i> , 2012, 2012, 1-12.	2.2	12
87	Accelerated kindling development in δ ^{1/2} -opioid receptor deficient mice. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2004, 369, 287-293.	3.0	11
88	Analgesic potential of standardized methanol stem bark extract of <i>Ficus platyphylla</i> in mice: Mechanisms of action. <i>Journal of Ethnopharmacology</i> , 2016, 184, 101-106.	4.1	11
89	PTZ-kindling after colchicine lesion in the dentate gyrus of the rat hippocampus. <i>Physiology and Behavior</i> , 1995, 58, 695-698.	2.1	10
90	Parecoxib and its metabolite valdecoxib directly interact with cannabinoid binding sites in CB1-expressing HEK 293 cells and rat brain tissue. <i>Neurochemistry International</i> , 2011, 58, 9-13.	3.8	10

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91	Influence of beta-casomorphin derivatives on chemically and electrically induced seizures. <i>Peptides</i> , 1991, 12, 43-45.	2.4	9
92	dTyr-D-Phe3 (Pro-D-Phe-Pro-Gly) interacts specifically with amygdaloid-kindled seizures and is capable of preventing the learning deficit occurring after kindling. <i>Peptides</i> , 1992, 13, 73-76.	2.4	9
93	The role of glutamate receptors in pentylenetetrazole kindling of rats – A neurochemical study. <i>Neuropharmacology</i> , 1996, 35, A28.	4.1	8
94	Hippocampus-dependent learning in SKAP-HOM deficient mice. <i>Behavioural Brain Research</i> , 2014, 270, 125-130.	2.2	8
95	The effect of acutely administered beta-casomorphin derivatives on pentylenetetrazol-kindled mice. <i>Peptides</i> , 1991, 12, 483-485.	2.4	7
96	Transcriptional response to the neuroleptic-like compound Ampullosporin A in the rat ketamine model. <i>Journal of Neurochemistry</i> , 2006, 97, 74-81.	3.9	7
97	Alterations of reward mechanisms in bullectomised rats. <i>Behavioural Brain Research</i> , 2015, 286, 271-277.	2.2	7
98	Sciatic nerve ligation causes impairment of mitochondria associated with changes in distribution, respiration, and cardiolipin composition in related spinal cord neurons in rats. <i>Molecular and Cellular Biochemistry</i> , 2016, 421, 41-54.	3.1	7
99	Nootropic drugs have different effects on kindling-induced learning deficits in rats. <i>Pharmacological Research</i> , 1995, 32, 115-122.	7.1	6
100	Cannabinoid-mediated diversity of antinociceptive efficacy of parecoxib in Wistar and Sprague Dawley rats in the chronic constriction injury model of neuropathic pain. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2013, 386, 369-382.	3.0	5
101	The effects of kratom on restraint-stress-induced analgesia and its mechanisms of action. <i>Journal of Ethnopharmacology</i> , 2017, 205, 178-185.	4.1	5
102	Methanol extract of <i>Ficus platyphylla</i> decreases cerebral ischemia induced injury in mice. <i>Journal of Ethnopharmacology</i> , 2021, 278, 114219.	4.1	5
103	Threshold to elicit seizures by picrotoxin is lowered in pentylenetetrazol-kindled mice. <i>Neuropharmacology</i> , 1990, 29, 1073-1074.	4.1	4
104	Pattern of NADPH-diaphorase active neurons in rat forebrain is unchanged after pentylenetetrazol kindling. <i>Acta Histochemica</i> , 1991, 91, 157-164.	1.8	4
105	Pharmacological effects on two inbred substrains of AB mice. <i>Pharmacology Biochemistry and Behavior</i> , 1991, 38, 471-473.	2.9	4
106	Genetic Deficiency in Neprilysin or Its Pharmacological Inhibition Initiate Excessive Stress-Induced Alcohol Consumption in Mice. <i>PLoS ONE</i> , 2012, 7, e50187.	2.5	4
107	Avoidance and brightness discrimination conditioning in genetically different lines of rats. <i>Physiology and Behavior</i> , 1989, 45, 347-350.	2.1	3
108	The anticonvulsive effect of BCH 325 is age dependent. <i>Peptides</i> , 1991, 12, 669-670.	2.4	3

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109	Standardized extract of <i>Ficus platyphylla</i> reverses apomorphine-induced changes in prepulse inhibition and locomotor activity in rats. <i>Behavioural Brain Research</i> , 2015, 293, 74-80.	2.2	3
110	Modeling Schizophrenia: Focus on Developmental Models. <i>Neuromethods</i> , 2017, , 369-388.	0.3	3
111	Ethanol <i>Iris tenuifolia</i> extract reduces brain damage in a mouse model of cerebral ischaemia. <i>Phytotherapy Research</i> , 2018, 32, 333-339.	5.8	3
112	Schizophrenia and the nitric oxide controversy: Do all things fall into place now?. <i>Synapse</i> , 2011, 65, 545-546.	1.2	2
113	Effects of a methanol extract of <i>Ficus platyphylla</i> stem bark on a two-way active avoidance task and on body core temperature. <i>Behavioural Brain Research</i> , 2019, 367, 215-220.	2.2	2
114	Effects of the peptide BCH-325 upon the efficacy of common antiepileptic drugs. <i>Peptides</i> , 1994, 15, 1285-1288.	2.4	1
115	Dynamic aspects of cerebral hypoxic preconditioning measured in an in vitro model. <i>Neuroscience Letters</i> , 2014, 558, 175-179.	2.1	0