

Flavio Keller

List of Publications by Year in descending order

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89
papers

3,846
citations

147726
31
h-index

133188
59
g-index

90
all docs

90
docs citations

90
times ranked

3694
citing authors

#	ARTICLE	IF	CITATIONS
1	Modulation of an NCAM-related adhesion molecule with long-term synaptic plasticity in <i>Aplysia</i> . <i>Science</i> , 1992, 256, 638-644.	6.0	373
2	Reelin gene alleles and haplotypes as a factor predisposing to autistic disorder. <i>Molecular Psychiatry</i> , 2001, 6, 150-159.	4.1	314
3	Serotonin-mediated endocytosis of apCAM: an early step of learning-related synaptic growth in <i>Aplysia</i> . <i>Science</i> , 1992, 256, 645-649.	6.0	310
4	Dopamine neuronal loss contributes to memory and reward dysfunction in a model of Alzheimer's disease. <i>Nature Communications</i> , 2017, 8, 14727.	5.8	308
5	Barrel Pattern Formation Requires Serotonin Uptake by Thalamocortical Afferents, and Not Vesicular Monoamine Release. <i>Journal of Neuroscience</i> , 2001, 21, 6862-6873.	1.7	210
6	Identification and Characterization of a Bovine Neurite Growth Inhibitor (bNI-220). <i>Journal of Biological Chemistry</i> , 1998, 273, 19283-19293.	1.6	141
7	Reelin Is a Serine Protease of the Extracellular Matrix. <i>Journal of Biological Chemistry</i> , 2002, 277, 303-309.	1.6	137
8	Lack of association between serotonin transporter gene promoter variants and autistic disorder in two ethnically distinct samples. <i>American Journal of Medical Genetics Part A</i> , 2000, 96, 123-127.	2.4	100
9	The Neurobiological Context of Autism. <i>Molecular Neurobiology</i> , 2003, 28, 1-22.	1.9	96
10	Posture Development in Infants at Heightened versus Low Risk for Autism Spectrum Disorders. <i>Infancy</i> , 2013, 18, 639-661.	0.9	84
11	A membrane glycoprotein associated with the limbic system mediates the formation of the septo-hippocampal pathway in vitro. <i>Neuron</i> , 1989, 3, 551-561.	3.8	78
12	Gene-environment interaction during early development in the heterozygous reeler mouse: Clues for modelling of major neurobehavioral syndromes. <i>Neuroscience and Biobehavioral Reviews</i> , 2009, 33, 560-572.	2.9	73
13	Interactions between neuroactive steroids and reelin haploinsufficiency in Purkinje cell survival. <i>Neurobiology of Disease</i> , 2009, 36, 103-115.	2.1	70
14	Paradoxical effects of prenatal acetylcholinesterase blockade on neuro-behavioral development and drug-induced stereotypies in reeler mutant mice. <i>Psychopharmacology</i> , 2006, 187, 331-344.	1.5	63
15	Methodological factors influencing measurement and processing of plasma reelin in humans. <i>BMC Biochemistry</i> , 2003, 4, 9.	4.4	57
16	Reduced programmed cell death in brains of serotonin transporter knockout mice. <i>NeuroReport</i> , 2003, 14, 341-344.	0.6	57
17	Perseverative responding and neuroanatomical alterations in adult heterozygous reeler mice are mitigated by neonatal estrogen administration. <i>Psychoneuroendocrinology</i> , 2010, 35, 1374-1387.	1.3	56
18	Adenosine deaminase alleles and autistic disorder: Case-control and family-based association studies. <i>American Journal of Medical Genetics Part A</i> , 2000, 96, 784-790.	2.4	54

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19	Altered cortico-striatal synaptic plasticity and related behavioural impairments in reeler mice. <i>European Journal of Neuroscience</i> , 2006, 24, 2061-2070.	1.2	54
20	Dopamine loss alters the hippocampus-nucleus accumbens synaptic transmission in the Tg2576 mouse model of Alzheimer's disease. <i>Neurobiology of Disease</i> , 2018, 116, 142-154.	2.1	50
21	Neuron-specific membrane glycoproteins promoting neurite fasciculation in <i>Aplysia californica</i> .. <i>Journal of Cell Biology</i> , 1990, 111, 2637-2650.	2.3	48
22	Serotonin transporter gene promoter variants do not explain the hyperserotoninemia in autistic children. <i>Molecular Psychiatry</i> , 2002, 7, 795-800.	4.1	48
23	Nilotinib restores memory function by preventing dopaminergic neuron degeneration in a mouse model of Alzheimer's Disease. <i>Progress in Neurobiology</i> , 2021, 202, 102031.	2.8	46
24	Development of cholinergic projections in organotypic cultures of rat septum, hippocampus and cerebellum. <i>Developmental Brain Research</i> , 1985, 19, 267-278.	2.1	41
25	Animal models of autism spectrum disorders: Information for neurotoxicologists. <i>NeuroToxicology</i> , 2009, 30, 811-821.	1.4	40
26	Technological Solutions and Main Indices for the Assessment of Newborns' Nutritive Sucking: A Review. <i>Sensors</i> , 2014, 14, 634-658.	2.1	39
27	Kinematic analysis of the human wrist during pointing tasks. <i>Experimental Brain Research</i> , 2010, 201, 561-573.	0.7	37
28	Long-term Facilitation in <i>Aplysia</i> : Persistent Phosphorylation and Structural Changes. <i>Cold Spring Harbor Symposia on Quantitative Biology</i> , 1990, 55, 187-202.	2.0	37
29	Reelin haploinsufficiency reduces the density of PV+ neurons in circumscribed regions of the striatum and selectively alters striatal-based behaviors. <i>Psychopharmacology</i> , 2009, 204, 511-521.	1.5	34
30	Deafferentation-induced apoptosis of neurons in thalamic somatosensory nuclei of the newborn rat: critical period and rescue from cell death by peripherally applied neurotrophins. <i>European Journal of Neuroscience</i> , 2000, 12, 2281-2290.	1.2	33
31	Selective kainic acid lesions in cultured explants of rat hippocampus. <i>Acta Neuropathologica</i> , 1987, 74, 183-190.	3.9	32
32	Reelin Promotes Peripheral Synapse Elimination and Maturation. <i>Science</i> , 2003, 301, 649-653.	6.0	30
33	Enhanced APOE2 transmission rates in families with autistic probands. <i>Psychiatric Genetics</i> , 2004, 14, 73-82.	0.6	29
34	Reelin is transiently expressed in the peripheral nerve during development and is upregulated following nerve crush. <i>Molecular and Cellular Neurosciences</i> , 2006, 32, 133-142.	1.0	28
35	Ambra1 Shapes Hippocampal Inhibition/Excitation Balance: Role in Neurodevelopmental Disorders. <i>Molecular Neurobiology</i> , 2018, 55, 7921-7940.	1.9	28
36	Inhibition of PC12 Cell Attachment and Neurite Outgrowth by Detergent Solubilized CNS Myelin Proteins. <i>European Journal of Neuroscience</i> , 1995, 7, 2524-2529.	1.2	27

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37	Developmental and regeneration-associated regulation of the limbic system associated membrane protein in explant cultures of the rat brain. <i>Neuroscience</i> , 1989, 28, 455-474.	1.1	26
38	WearCam: A head mounted wireless camera for monitoring gaze attention and for the diagnosis of developmental disorders in young children. , 2007, , .		25
39	Associations among exposure to methylmercury, reduced Reelin expression, and gender in the cerebellum of developing mice. <i>NeuroToxicology</i> , 2014, 45, 67-80.	1.4	25
40	Performance of Motor Sequences in Children at Heightened vs. Low Risk for ASD: A Longitudinal Study from 18 to 36 Months of Age. <i>Frontiers in Psychology</i> , 2016, 7, 724.	1.1	24
41	Embedding inertial-magnetic sensors in everyday objects: Assessing spatial cognition in children. <i>Journal of Integrative Neuroscience</i> , 2012, 11, 103-116.	0.8	23
42	Choline acetyltransferase in organotypic cultures of rat septum and hippocampus. <i>Neuroscience Letters</i> , 1983, 42, 273-278.	1.0	22
43	Development of goal-directed action selection guided by intrinsic motivations: an experiment with children. <i>Experimental Brain Research</i> , 2014, 232, 2167-2177.	0.7	21
44	Differential regulation of adenosine A1 and A2A receptors in serotonin transporter and monoamine oxidase A-deficient mice. <i>European Neuropsychopharmacology</i> , 2000, 10, 489-493.	0.3	20
45	Inertial-Magnetic Sensors for Assessing Spatial Cognition in Infants. <i>IEEE Transactions on Biomedical Engineering</i> , 2011, 58, 1499-1503.	2.5	20
46	Sensor-based technology in the study of motor skills in infants at risk for ASD. , 2012, , 1879-1883.		20
47	Ecological Sucking Monitoring of Newborns. <i>IEEE Sensors Journal</i> , 2013, 13, 4561-4568.	2.4	18
48	Choline and acetylcholine metabolism in slice cultures of the newborn rat septum. <i>Brain Research</i> , 1987, 405, 305-312.	1.1	17
49	Strain-specific development of the mossy fiber system in organotypic cultures of the mouse hippocampus. <i>Neuroscience Letters</i> , 1988, 87, 7-10.	1.0	16
50	Inertial/Magnetic Sensors Based Orientation Tracking on the Group of Rigid Body Rotations with Application to Wearable Devices. , 2006, , .		16
51	Impaired nerve regeneration in <i>reeler</i> mice after peripheral nerve injury. <i>European Journal of Neuroscience</i> , 2008, 27, 12-19.	1.2	16
52	The Efficiency of Gene Electrotransfer in Breast-Cancer Cell Lines Cultured on a Novel Collagen-Free 3D Scaffold. <i>Cancers</i> , 2020, 12, 1043.	1.7	16
53	Early derailment of firing properties in CA1 pyramidal cells of the ventral hippocampus in an Alzheimer's disease mouse model. <i>Experimental Neurology</i> , 2022, 350, 113969.	2.0	16
54	Quantification in macroscopic autoradiography with carbon-14 An evaluation of the method. <i>The International Journal of Applied Radiation and Isotopes</i> , 1982, 33, 1427-1432.	0.7	15

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55	Organotypic culture of central histamine neurons. Brain Research, 1988, 442, 166-170.	1.1	15
56	BDNF and NT-3 applied in the whisker pad reverse cortical changes after peripheral deafferentation in neonatal rats. European Journal of Neuroscience, 1998, 10, 3194-3200.	1.2	14
57	The organization of intrinsic hippocampal connections in explants of rat hippocampus studied by topical application of HRP crystals. Brain Research, 1986, 380, 191-195.	1.1	13
58	A mechatronic platform for early diagnosis of neurodevelopmental disorders. Advanced Robotics, 2007, 21, 1131-1150.	1.1	13
59	A mechatronic platform for behavioral analysis on nonhuman primates. Journal of Integrative Neuroscience, 2012, 11, 87-101.	0.8	12
60	Slice cultures confirm the presence of cholinergic neurons in the rat habenula. Neuroscience Letters, 1984, 52, 299-304.	1.0	10
61	Implants for sustained drug release over the somatosensory cortex of the newborn rat: a comparison of materials and surgical procedures. Journal of Neuroscience Methods, 1997, 76, 105-113.	1.3	10
62	Characterization of NGF, $\text{trkA}^{\text{NGFR}}$, and p75^{NTR} in Retina of Mice Lacking Reelin Glycoprotein. International Journal of Cell Biology, 2014, 2014, 1-13.	1.0	10
63	No association between the 4G/5G polymorphism of the plasminogen activator inhibitor-1 gene promoter and autistic disorder. Psychiatric Genetics, 2001, 11, 99-103.	0.6	9
64	A 3D model of Reelin subrepeat regions predicts Reelin binding to carbohydrates. Brain Research, 2006, 1116, 222-230.	1.1	9
65	NGF Expression in Reelin-Deprived Retinal Cells: A Potential Neuroprotective Effect. NeuroMolecular Medicine, 2015, 17, 314-325.	1.8	9
66	A new research method to test auditory preferences in young listeners: Results from a consonance versus dissonance perception study. Psychology of Music, 2017, 45, 699-712.	0.9	9
67	Motor performance in a shape sorter task: A longitudinal study from 14 to 36 months of age in children with an older sibling ASD. PLoS ONE, 2019, 14, e0217416.	1.1	9
68	Focusing on the Interactions between the GABAergic System and Neurosteroids in Neurodevelopmental Disorders. Current Pharmaceutical Design, 2013, 19, 6491-6498.	0.9	9
69	Muscarinic receptors in slice cultures of rat brain. Neuropharmacology, 1986, 25, 221-226.	2.0	8
70	Towards Development of Biomechatronic Tools for Early Diagnosis of Neurodevelopmental Disorders. , 2006, 2006, 3242-5.		8
71	A Novel 3D Scaffold for Cell Growth to Assess Electroporation Efficacy. Cells, 2019, 8, 1470.	1.8	7
72	Multimodal Ecological Technology: From Child's Social Behavior Assessment to Child-Robot Interaction Improvement. International Journal of Social Robotics, 2011, 3, 69-81.	3.1	5

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73	Changes in vitreal protein profile and retina mRNAs in Reeler mice: NGF, IL33 and MÃ¼ller cell activation. PLoS ONE, 2019, 14, e0212732.	1.1	5
74	The "Mechatronic Board": A Tool to Study Intrinsic Motivations in Humans, Monkeys, and Humanoid Robots. , 2013, , 411-432.		5
75	Current Progress of Reelin in Development, Inflammation and Tissue Remodeling: From Nervous to Visual Systems. Current Molecular Medicine, 2016, 16, 620-630.	0.6	5
76	Motor adaptation during redundant tasks with the wrist. , 2011, 2011, 4046-9.		4
77	Adenosine deaminase alleles and autistic disorder: Case-control and family-based association studies. American Journal of Medical Genetics Part A, 2000, 96, 784-790.	2.4	4
78	The Male Prevalence in Autism Spectrum Disorders: Hypotheses on its Neurobiological Basis. , 2010, , 13-28.		4
79	Epistemological Foundation of Biometrics. The International Library of Ethics, Law and Technology, 2012, , 23-47.	0.2	4
80	A Modular Platform for In-plane Ground Reaction Forces Detection in a Mouse Model: Design, Development and Verification. Advanced Robotics, 2008, 22, 141-157.	1.1	3
81	A mechatronic platform for behavioral studies on infants. , 2012, , .		3
82	Instrumented toys for assessing spatial cognition in infants. Frontiers of Mechanical Engineering in China, 2010, 6, 82.	0.4	2
83	Embodying melody through a conducting baton: a pilot comparison between musicians and non-musicians. Experimental Brain Research, 2020, 238, 2279-2291.	0.7	2
84	Muscarinic receptors on cultured cells of rat hippocampus: cholinergic regulation and presence of subtypes. European Journal of Pharmacology, 1989, 160, 1-9.	1.7	1
85	A sensor-based approach to study sound perception in children. International Journal of Computer Applications in Technology, 2017, 55, 173.	0.3	1
86	The Robustness of Musical Language: A Perspective from Complex Systems Theory. History, Philosophy and Theory of the Life Sciences, 2018, , 207-217.	0.4	1
87	Interaction between Genetic Vulnerability and Neurosteroids in Purkinje cells as a Possible Neurobiological Mechanism in Autism Spectrum Disorders. , 2008, , 209-231.		1
88	A sensor-based approach to study sound perception in children. International Journal of Computer Applications in Technology, 2017, 55, 173.	0.3	1
89	Towards Development of Biomechatronic Tools for Early Diagnosis of Neurodevelopmental Disorders. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2006, , .	0.5	0