

Nikolaus J Sucher

List of Publications by Year in descending order

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80
papers

8,947
citations

76294

40
h-index

71651

76
g-index

83
all docs

83
docs citations

83
times ranked

7615
citing authors

#	ARTICLE	IF	CITATIONS
1	A redox-based mechanism for the neuroprotective and neurodestructive effects of nitric oxide and related nitroso-compounds. <i>Nature</i> , 1993, 364, 626-632.	13.7	2,443
2	Effect of nitric oxide production on the redox modulatory site of the NMDA receptor-channel complex. <i>Neuron</i> , 1992, 8, 1087-1099.	3.8	739
3	(S)NO Signals: Translocation, Regulation, and a Consensus Motif. <i>Neuron</i> , 1997, 18, 691-696.	3.8	679
4	Synergistic effects of HIV coat protein and NMDA receptor-mediated neurotoxicity. <i>Neuron</i> , 1991, 7, 111-118.	3.8	415
5	Molecular basis of glutamate toxicity in retinal ganglion cells. <i>Vision Research</i> , 1997, 37, 3483-3493.	0.7	356
6	NMDA receptors: from genes to channels. <i>Trends in Pharmacological Sciences</i> , 1996, 17, 348-355.	4.0	281
7	Assembly with the NR1 Subunit Is Required for Surface Expression of NR3A-Containing NMDA Receptors. <i>Journal of Neuroscience</i> , 2001, 21, 1228-1237.	1.7	237
8	Genome-Based Approaches to the Authentication of Medicinal Plants. <i>Planta Medica</i> , 2008, 74, 603-623.	0.7	179
9	Characterization and Comparison of the NR3A Subunit of the NMDA Receptor in Recombinant Systems and Primary Cortical Neurons. <i>Journal of Neurophysiology</i> , 2002, 87, 2052-2063.	0.9	174
10	Temporal and regional expression of NMDA receptor subunit NR3A in the mammalian brain. <i>Journal of Comparative Neurology</i> , 2002, 450, 303-317.	0.9	161
11	Early Alterations of AMPA Receptors Mediate Synaptic Potentiation Induced by Neonatal Seizures. <i>Journal of Neuroscience</i> , 2008, 28, 7979-7990.	1.7	160
12	N-methyl-d-aspartate receptors are critical for mediating the effects of glutamate on intracellular calcium concentration and immediate early gene expression in cultured hippocampal neurons. <i>Neuroscience</i> , 1995, 64, 653-664.	1.1	146
13	Minocycline prevents glutamate-induced apoptosis of cerebellar granule neurons by differential regulation of p38 and Akt pathways. <i>Journal of Neurochemistry</i> , 2004, 91, 1219-1230.	2.1	145
14	Neuroprotective effects of tanshinones in transient focal cerebral ischemia in mice. <i>Phytomedicine</i> , 2003, 10, 286-291.	2.3	144
15	Surface Characterization of a Silicon-Chip-Based DNA Microarray. <i>Langmuir</i> , 2001, 17, 2497-2501.	1.6	143
16	Stroke therapy in traditional Chinese medicine (TCM): prospects for drug discovery and development. <i>Trends in Pharmacological Sciences</i> , 1999, 20, 191-196.	4.0	122
17	A pharmacological basis of herbal medicines for epilepsy. <i>Epilepsy and Behavior</i> , 2015, 52, 308-318.	0.9	114
18	Calcium channel antagonists attenuate NMDA receptor-mediated neurotoxicity of retinal ganglion cells in culture. <i>Brain Research</i> , 1991, 551, 297-302.	1.1	113

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19	An NMDA Receptor Signaling Complex with Protein Phosphatase 2A. <i>Journal of Neuroscience</i> , 2001, 21, 7985-7992.	1.7	109
20	Redox modulation of NMDA receptor-mediated toxicity in mammalian central neurons. <i>Neuroscience Letters</i> , 1990, 110, 291-296.	1.0	100
21	Quality assessment of medicinal herbs and their extracts: Criteria and prerequisites for consistent safety and efficacy of herbal medicines. <i>Epilepsy and Behavior</i> , 2015, 52, 363-371.	0.9	99
22	Anti-inflammatory activity of cinnamon (<i>C. zeylanicum</i> and <i>C. cassia</i>) extracts – identification of E-cinnamaldehyde and o-methoxy cinnamaldehyde as the most potent bioactive compounds. <i>Food and Function</i> , 2015, 6, 910-919.	2.1	93
23	Genotyping on a Complementary Metal Oxide Semiconductor Silicon Polymerase Chain Reaction Chip with Integrated DNA Microarray. <i>Analytical Chemistry</i> , 2002, 74, 3168-3173.	3.2	91
24	The application of Chinese medicine to novel drug discovery. <i>Expert Opinion on Drug Discovery</i> , 2013, 8, 21-34.	2.5	89
25	PCR and patch-clamp analysis of single neurons. <i>Neuron</i> , 1995, 14, 1095-1100.	3.8	85
26	Surface-chemistry technology for microfluidics. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 272-278.	1.5	84
27	Activation of NMDA receptor-channels in human retinal Müller glial cells inhibits inward-rectifying potassium currents. <i>Visual Neuroscience</i> , 1996, 13, 319-326.	0.5	82
28	Effect of Crystal Imperfections on Reactivity and Photoreactivity of TiO ₂ (Rutile) with Oxygen, Water, and Bacteria. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15711-15738.	1.5	82
29	Insights from molecular investigations of traditional Chinese herbal stroke medicines: Implications for neuroprotective epilepsy therapy. <i>Epilepsy and Behavior</i> , 2006, 8, 350-362.	0.9	73
30	Redox modulation of NMDA receptor-mediated Ca ²⁺ flux in mammalian central neurons. <i>NeuroReport</i> , 1990, 1, 29-32.	0.6	68
31	Chapter 6 Redox modulation of the NMDA receptor by NO-related species. <i>Progress in Brain Research</i> , 1998, 118, 73-82.	0.9	57
32	NMDA receptors: from genes to channels. <i>Trends in Pharmacological Sciences</i> , 1996, 17, 348-355.	4.0	56
33	Co-expression of AMPA/kainate receptor-operated channels with high and low Ca ²⁺ permeability in single rat retinal ganglion cells. <i>Neuroscience</i> , 1995, 67, 177-188.	1.1	55
34	Genes and channels: patch/voltage-clamp analysis and single-cell RT-PCR. <i>Cell and Tissue Research</i> , 2000, 302, 295-307.	1.5	55
35	Redox state, NMDA receptors and NO-related species. <i>Trends in Pharmacological Sciences</i> , 1996, 17, 186-187.	4.0	54
36	Neuroprotective versus neurodestructive effects of NO-related species. <i>BioFactors</i> , 1998, 8, 33-40.	2.6	53

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37	Glutathione prevents N -methyl-d-aspartate receptor-mediated neurotoxicity. <i>NeuroReport</i> , 1991, 2, 345-347.	0.6	51
38	A DNA Microarray for the Authentication of Toxic Traditional Chinese Medicinal Plants. <i>Planta Medica</i> , 2005, 71, 580-584.	0.7	47
39	Neural nicotinic acetylcholine responses in sensory neurons from postnatal rat. <i>Brain Research</i> , 1990, 533, 248-254.	1.1	41
40	N-Methyl-D-Aspartate Receptor Antagonist Activity in Traditional Chinese Stroke Medicines. <i>NeuroSignals</i> , 2003, 12, 31-38.	0.5	41
41	An in vitro study of anti-inflammatory activity of standardised <i>Andrographis paniculata</i> extracts and pure andrographolide. <i>BMC Complementary and Alternative Medicine</i> , 2015, 15, 18.	3.7	41
42	N-Methyl-d-Aspartate Receptor Subunit NR3A in the Retina: Developmental Expression, Cellular Localization, and Functional Aspects. , 2003, 44, 4451.		39
43	Searching for synergy in silico, in vitro and in vivo. <i>Synergy</i> , 2014, 1, 30-43.	1.1	33
44	DNA Fingerprinting, DNA Barcoding, and Next Generation Sequencing Technology in Plants. <i>Methods in Molecular Biology</i> , 2012, 862, 13-22.	0.4	32
45	Design and fabrication of an integrated microsystem for microcapillary electrophoresis. <i>Journal of Micromechanics and Microengineering</i> , 2003, 13, 914-921.	1.5	29
46	Traditional Chinese medicines with caspase-inhibitory activity. <i>Phytomedicine</i> , 2006, 13, 16-22.	2.3	29
47	From classical taxonomy to genome and metabolome: Towards comprehensive quality standards for medicinal herb raw materials and extracts. <i>FÄ-toterapÄ-t</i> , 2012, 83, 979-988.	1.1	27
48	Molecular interaction of NMDA receptor subunit NR3A with protein phosphatase 2A. <i>NeuroReport</i> , 2004, 15, 1447-1450.	0.6	26
49	Flavonoids from <i>Radix Scutellariae</i> as potential stroke therapeutic agents by targeting the second postsynaptic density 95 (PSD-95)/disc large/zonula occludens-1 (PDZ) domain of PSD-95. <i>Phytomedicine</i> , 2004, 11, 277-284.	2.3	25
50	Chips and Qi: microcomponent-based analysis in traditional Chinese medicine. <i>Fresenius' Journal of Analytical Chemistry</i> , 2001, 371, 190-194.	1.5	23
51	An in vitro study of neuroprotective properties of traditional Chinese herbal medicines thought to promote healthy ageing and longevity. <i>BMC Complementary and Alternative Medicine</i> , 2013, 13, 373.	3.7	23
52	The <i>Saccharomyces cerevisiae</i> transcriptome as a mirror of phytochemical variation in complex extracts of <i>Equisetum arvense</i> from America, China, Europe and India. <i>BMC Genomics</i> , 2013, 14, 445.	1.2	20
53	A slowly inactivating K ⁺ current in retinal ganglion cells from postnatal rat. <i>Visual Neuroscience</i> , 1992, 8, 171-176.	0.5	19
54	Expression of N-methyl-d-aspartate receptor subunit mRNAs in the rat pheochromocytoma cell line PC12. <i>Neuroscience Letters</i> , 1995, 201, 103-106.	1.0	19

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55	Cytoprotective properties of traditional Chinese medicinal herbal extracts in hydrogen peroxide challenged human U373 astroglia cells. <i>Neurochemistry International</i> , 2013, 62, 522-529.	1.9	19
56	Translationaly distinct populations of NMDA receptor subunit NR1 mRNA in the developing rat brain. <i>Journal of Neurochemistry</i> , 2003, 87, 1066-1075.	2.1	18
57	A non-muscle myosin II motor links NR1 to retrograde trafficking and proteasomal degradation in PC12 cells. <i>Neurochemistry International</i> , 2010, 56, 569-576.	1.9	16
58	5â€-Thiolated Oligonucleotides on (3-Mercaptopropyl)trimethoxysilaneâ€™Mica:Â Surface Topography and Coverage. <i>Langmuir</i> , 2003, 19, 5846-5850.	1.6	15
59	Preservation of the Biofunctionality of DNA and Protein during Microfabrication. <i>Langmuir</i> , 2006, 22, 877-881.	1.6	15
60	Association of the Small GTPase Rheb with the NMDA Receptor Subunit NR3A. <i>NeuroSignals</i> , 2010, 18, 203-209.	0.5	15
61	Turnover analysis of N-methyl-d-aspartate receptor subunit NR1 protein in PC12 cells. <i>Neuroscience Letters</i> , 2002, 318, 153-157.	1.0	14
62	Characterization of mRNA Expression in Single Neurons. <i>Methods in Molecular Biology</i> , 2007, 399, 133-152.	0.4	14
63	Physical activity and posture: Influence on TSH and thyroid hormones during sleep deprivation. <i>Psychiatry Research</i> , 1990, 34, 213-215.	1.7	13
64	Altered development of glutamatergic synapses in layer V pyramidal neurons in NR3A knockout mice. <i>Molecular and Cellular Neurosciences</i> , 2009, 42, 419-426.	1.0	12
65	GC-MS analysis of volatile secondary metabolites in â€Mediterraneanâ€ and â€Continentalâ€ <i>Festuca arundinacea</i> (Poaceae) infected with the fungal endophyte <i>Neotyphodium coenophialum</i> strain AR542. <i>Acta Chromatographica</i> , 2011, 23, 621-628.	0.7	12
66	Genomic DNA Extraction and Barcoding of Endophytic Fungi. <i>Methods in Molecular Biology</i> , 2012, 862, 171-179.	0.4	11
67	Cryopreservation of postnatal rat retinal ganglion cells: Persistence of voltage- and ligand-gated ionic currents. <i>Neuroscience</i> , 1991, 43, 135-150.	1.1	10
68	The influence of physical activity and posture on the antidepressant effect of sleep deprivation in depressed patients. <i>Journal of Affective Disorders</i> , 1990, 20, 93-99.	2.0	9
69	Translational Activity of N-Methyl- <i>D</i> -Aspartate Receptor Subunit NR1 mRNA in PC12 Cells. <i>NeuroSignals</i> , 2003, 12, 283-291.	0.5	9
70	Using GenBank® for Genomic Authentication: A Tutorial. <i>Methods in Molecular Biology</i> , 2012, 862, 181-200.	0.4	8
71	Magnesium as NMDA receptor blocker in the traditional Chinese medicine Danshen. <i>Phytomedicine</i> , 2005, 12, 173-177.	2.3	7
72	Translational Regulation of the N-Methyl- <i>D</i> -Aspartate Receptor Subunit NR1. <i>NeuroSignals</i> , 2004, 13, 190-193.	0.5	6

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73	Titanium Dioxide Photocatalyst - Unresolved Problems. Solid State Phenomena, 2010, 162, 77-90.	0.3	5
74	Effects of a novel herbal formulation JSK on acute spinal cord injury in rats. Restorative Neurology and Neuroscience, 2013, 31, 597-617.	0.4	5
75	Polymerase Chain Reaction on Microchips. , 2006, 321, 131-140.		4
76	Genomic and Transcriptomic Profiling: Tools for the Quality Production of Plant-Based Medicines. , 2013, , 439-455.		3
77	Chinese Herbal Medicines for Neuroprotection in Ischemic Stroke: Promise and Reality. , 2013, , 363-395.		2
78	Botanicals for epilepsy. Epilepsy and Behavior, 2015, 52, 279-280.	0.9	1
79	Surface Characterization of DNA Microarray on Silicon Dioxide and Compatible Silicon Materials in the Immobilization Process. Materials Research Society Symposia Proceedings, 2001, 711, 1.	0.1	0
80	Neuronal Protection by Nitric Oxide-Related Species. , 2000, , 143-152.		0