Petra Henrich-Noack

List of Publications by Year
in descending order

53 papers	1,734 citations	331642 21 h-index	276858 41 g-index
54 all docs	54 docs citations	54 times ranked	2490 citing authors

#	Article	IF	Citations
1	Four different types of protease-activated receptors are widely expressed in the brain and are up-regulated in hippocampus by severe ischemia. European Journal of Neuroscience, 2001, 14, 595-608.	2.6	180
2	Mechanistic understanding of nanoparticlesâ€™ interactions with extracellular matrix: the cell and immune system. Particle and Fibre Toxicology, 2017, 14, 22.	6.2	153
3	Vision restoration after brain and retina damage: The â€œresidual vision activation theoryâ€• Progress in Brain Research, 2011, 192, 199-262.	1.4	133
4	Neuroprotective effects of Ginkgo biloba constituents. European Journal of Pharmaceutical Sciences, 1995, 3, 39-48.	4.0	102
5	Surfactants, not size or zeta-potential influence bloodâ€“brain barrier passage of polymeric nanoparticles. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 87, 19-29.	4.3	98
6	Clenbuterol protects mouse cerebral cortex and rat hippocampus from ischemic damage and attenuates glutamate neurotoxicity in cultured hippocampal neurons by induction of NGF. Brain Research, 1996, 717, 44-54.	2.2	97
7	Toxicity of polymeric nanoparticles in vivo and in vitro. Journal of Nanoparticle Research, 2014, 16, 1.	1.9	77
8	Increase of prothrombin-mRNA after global cerebral ischemia in rats, with constant expression of protease nexin-1 and protease-activated receptors. Neuroscience Letters, 2002, 329, 181-184.	2.1	73
9	Transcorneal electrical stimulation alters morphology and survival of retinal ganglion cells after optic nerve damage. Neuroscience Letters, 2013, 543, 1-6.	2.1	49
10	Vision modulation, plasticity and restoration using non-invasive brain stimulation â€“ An IFCN-sponsored review. Clinical Neurophysiology, 2020, 131, 887-911.	1.5	48
11	The mGlu receptor ligand (S)-4C3HPG protects neurons after global ischaemia in gerbils. NeuroReport, 1998, 9, 985-988.	1.2	46
12	Brain Targeting Delivery Facilitated by Ligand-Functionalized Layered Double Hydroxide Nanoparticles. ACS Applied Materials & Interfaces, 2018, 10, 20326-20333.	8.0	45
13	Focal ischemia induces expression of protease-activated receptor1 (PAR1) and PAR3 on microglia and enhances PAR4 labeling in the penumbra. Brain Research, 2006, 1070, 232-241.	2.2	41
14	The bloodâ€“brain barrier and beyond: Nano-based neuropharmacology and the role of extracellular matrix. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 17, 359-379.	3.3	41
15	Neuroprotection against hypoxic/hypoglycaemic injury after the insult by the group III metabotropic glutamate receptor agonist (R,S)-4-phosphonophenylglycine. British Journal of Pharmacology, 2000, 131, 655-658.	5.4	32
16	<i>In vivo</i> confocal neuroimaging (ICON): nonâ€•invasive, functional imaging of the mammalian CNS with cellular resolution. European Journal of Neuroscience, 2010, 31, 521-528.	2.6	31
17	Evaluation of Toxicity and Neural Uptake In Vitro and In Vivo of Superparamagnetic Iron Oxide Nanoparticles. International Journal of Molecular Sciences, 2018, 19, 2613.	4.1	29
18	Transcorneal alternating current stimulation after severe axon damage in rats results in â€œlong-term silent survivorâ€• neurons. Brain Research Bulletin, 2013, 95, 7-14.	3.0	28

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19	Distinct influence of the group III metabotropic glutamate receptor agonist (R,S)-4-phosphonophenylglycine [(R,S)-PPG] on different forms of neuronal damage. Neuropharmacology, 2000, 39, 911-917.	4.1	26
20	Preconditioning with thrombin can be protective or worsen damage after endothelin-1-induced focal ischemia in rats. Journal of Neuroscience Research, 2006, 83, 469-475.	2.9	26
21	Functional protection of learning and memory abilities in rats with vascular dementia. Restorative Neurology and Neuroscience, 2014, 32, 689-700.	0.7	24
22	Differential regulation of CXCL12 and PACAP mRNA expression after focal and global ischemia. Neuropharmacology, 2010, 58, 199-207.	4.1	22
23	Transcorneal alternating current stimulation induces EEG â€œaftereffectsâ€• only in rats with an intact visual system but not after severe optic nerve damage. Journal of Neurophysiology, 2012, 108, 2494-2500.	1.8	22
24	Detection of chronic sensorimotor impairments in the ladder rung walking task in rats with endothelin-1-induced mild focal ischemia. Journal of Neuroscience Methods, 2004, 137, 227-233.	2.5	21
25	Assessment of Amphiphilic Poly-<i>N</i>-vinylpyrrolidone Nanoparticlesâ€™ Biocompatibility with Endothelial Cells <i>in Vitro</i> and Delivery of an Anti-Inflammatory Drug. Molecular Pharmaceutics, 2020, 17, 4212-4225.	4.6	21
26	Non-invasive electrical brain stimulation: from acute to late-stage treatment of central nervous system damage. Neural Regeneration Research, 2017, 12, 1590.	3.0	21
27	(S)-4C3HPG reduces infarct size after focal cerebral ischemia. Neuropharmacology, 1998, 37, 1649-1652.	4.1	18
28	Recovery of Axonal Transport after Partial Optic Nerve Damage Is Associated with Secondary Retinal Ganglion Cell Death In Vivo. , 2012, 53, 1460.		18
29	Electrical brain stimulation induces dendritic stripping but improves survival of silent neurons after optic nerve damage. Scientific Reports, 2017, 7, 627.	3.3	18
30	Release kinetics of fluorescent dyes from PLGA nanoparticles in retinal blood vessels: In vivo monitoring and ex vivo localization. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 150, 131-142.	4.3	17
31	(1S,3R)-ACPD, a metabotropic glutamate receptor agonist, enhances damage after global ischaemia. European Journal of Pharmacology, 1999, 365, 55-58.	3.5	15
32	In vivo visualisation of nanoparticle entry into central nervous system tissue. Archives of Toxicology, 2012, 86, 1099-1105.	4.2	15
33	Preclinical model of transcorneal alternating current stimulation in freely moving rats. Restorative Neurology and Neuroscience, 2015, 33, 761-769.	0.7	14
34	Major effects on blood-retina barrier passage by minor alterations in design of polybutylcyanoacrylate nanoparticles. Journal of Drug Targeting, 2019, 27, 338-346.	4.4	14
35	Cholinergic Potentiation of Restoration of Visual Function after Optic Nerve Damage in Rats. Neural Plasticity, 2017, 2017, 1-10.	2.2	13
36	Experience-Dependent Plasticity and Vision Restoration in Rats after Optic Nerve Crush. Journal of Neurotrauma, 2010, 27, 2295-2307.	3.4	12

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37	Fluorescently Labeled PLGA Nanoparticles for Visualization In Vitro and In Vivo: The Importance of Dye Properties. Pharmaceutics, 2021, 13, 1145.	4.5	12
38	Pattern of time-dependent reduction of histologically determined infarct volume after focal ischaemia in mice. Neuroscience Letters, 2008, 432, 141-145.	2.1	11
39	How Nanoparticle Physicochemical Parameters Affect Drug Delivery to Cells in the Retina via Systemic Interactions. Molecular Pharmaceutics, 2019, 16, 5068-5075.	4.6	11
40	Co-expression of Î² Subunits with the Voltage-Gated Sodium Channel NaV1.7: the Importance of Subunit Association and Phosphorylation and Their Effects on Channel Pharmacology and Biophysics. Journal of Molecular Neuroscience, 2018, 65, 154-166.	2.3	9
41	Gene therapy with caspase-3 small interfering RNA-nanoparticles is neuroprotective after optic nerve damage. Neural Regeneration Research, 2021, 16, 2534.	3.0	9
42	Effects of transient global ischaemia on freezing behaviour and activity in a context-dependent fear conditioning task â€“ Implications for memory investigations. Brain Research Bulletin, 2011, 85, 346-353.	3.0	8
43	Oral application of carbon nanofibers in rats increases blood concentration of IL6 and IL10 and decreases locomotor activity. Environmental Toxicology and Pharmacology, 2017, 50, 183-191.	4.0	7
44	Live <i>In-Vivo</i> Neuroimaging Reveals the Transport of Lipophilic Cargo Through the Blood-Retina Barrier with Modified Amphiphilic Poly-N-Vinylpyrrolidone Nanoparticles. Journal of Biomedical Nanotechnology, 2021, 17, 846-858.	1.1	7
45	Brain-State-Dependent Non-Invasive Brain Stimulation and Functional Priming: A Hypothesis. Frontiers in Human Neuroscience, 2014, 8, 899.	2.0	5
46	Detrimental effects of halothane narcosis on damage after endothelin-1-induced MCAO. Journal of Neuroscience Methods, 2007, 162, 14-18.	2.5	4
47	Please keep calm: investigating hippocampal function without stress. Frontiers in Behavioral Neuroscience, 2014, 8, 356.	2.0	3
48	Predictive value of changes in electroencephalogram and excitatory postsynaptic field potential for CA1 damage after global ischaemia in rats. Experimental Brain Research, 2007, 181, 79-86.	1.5	2
49	Brain restoration as an emerging field in neurology and neuroscience. Restorative Neurology and Neuroscience, 2013, 31, 669-679.	0.7	2
50	Cytotoxicity and apoptotic gene expression in an in vitro model of the bloodâ€“brain barrier following exposure to poly(butylcyanoacrylate) nanoparticles. Journal of Drug Targeting, 2016, 24, 635-644.	4.4	2
51	Antiâ€apoptosis Function of PBCA Nanoparticles Containing Caspaseâ€3 siRNA for Neuronal Protection. Chemie-Ingenieur-Technik, 2018, 90, 451-455.	0.8	1
52	Exploring the systemic delivery of a poorly water-soluble model drug to the retina using PLGA nanoparticles. European Journal of Pharmaceutical Sciences, 2021, 164, 105905.	4.0	1
53	Late post-ischemic intracerebral thrombin-application reduces infarct volume. Journal of Cerebral Blood Flow and Metabolism, 2005, 25, S9-S9.	4.3	0