

Ranjana Patnaik

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

84
papers

1,332
citations

22
h-index

31
g-index

89
ext. papers

1,532
ext. citations

3.5
avg. IF

4.61
L-index

#	Paper	IF	Citations
84	Superior antioxidant and anti-ischemic neuroprotective effects of cerebrolysin in heat stroke following intoxication of engineered metal Ag and Cu nanoparticles: A comparative biochemical and physiological study with other stroke therapies. <i>Progress in Brain Research</i> , 2021 , 266, 301-348	2.9	1
83	Neuroprotective effects of insulin like growth factor-1 on engineered metal nanoparticles Ag, Cu and Al induced blood-brain barrier breakdown, edema formation, oxidative stress, upregulation of neuronal nitric oxide synthase and brain pathology. <i>Progress in Brain Research</i> , 2021 , 266, 97-121	2.9	0
82	Histamine H3 and H4 receptors modulate Parkinson's disease induced brain pathology. Neuroprotective effects of nanowired BF-2649 and clobenpropit with anti-histamine-antibody therapy. <i>Progress in Brain Research</i> , 2021 , 266, 1-73	2.9	1
81	Methamphetamine exacerbates pathophysiology of traumatic brain injury at high altitude. Neuroprotective effects of nanodelivery of a potent antioxidant compound H-290/51. <i>Progress in Brain Research</i> , 2021 , 266, 123-193	2.9	
80	Rapid Determination of Nitrate in Brain Regions and Cerebrospinal Fluid of Transient Bilateral Common Carotid Artery Occlusion Rat Model by HPLC-UV. <i>Proceedings of the National Academy of Sciences India Section A - Physical Sciences</i> , 2021 , 91, 361-368	0.9	
79	Nanodelivery of oxiracetam enhances memory, functional recovery and induces neuroprotection following concussive head injury. <i>Progress in Brain Research</i> , 2021 , 265, 139-230	2.9	0
78	Alzheimer's disease neuropathology is exacerbated following traumatic brain injury. Neuroprotection by co-administration of nanowired mesenchymal stem cells and cerebrolysin with monoclonal antibodies to amyloid beta peptide. <i>Progress in Brain Research</i> , 2021 , 265, 1-97	2.9	0
77	Nanodelivery of traditional Chinese Gingko Biloba extract EGb-761 and bilobalide BN-52021 induces superior neuroprotective effects on pathophysiology of heat stroke. <i>Progress in Brain Research</i> , 2021 , 265, 249-315	2.9	
76	Retraction notice to "Melatonin renders neuroprotection by protein kinase C mediated aquaporin-4 inhibition in animal model of focal cerebral ischemia" [<i>Life Sci.</i> 100 (2014) 97-109]. <i>Life Sciences</i> , 2021 , 281, 119209	6.8	
75	Upregulation of hemeoxygenase enzymes HO-1 and HO-2 following ischemia-reperfusion injury in connection with experimental cardiac arrest and cardiopulmonary resuscitation: Neuroprotective effects of methylene blue. <i>Progress in Brain Research</i> , 2021 , 265, 317-375	2.9	1
74	Comparative Evaluation of Effectiveness of 2% Lignocaine Hydrochloride with Clonidine Hydrochloride versus 2% Lignocaine Hydrochloride with Adrenaline Bitartrate as Local Anesthetic for Adult Patients Undergoing Surgical Extraction of Impacted Mandibular Third Molars: A Randomized Controlled Clinical Study. <i>Contemporary Clinical Dentistry</i> , 2021 , 12, 308-312	0.6	1
73	Prolactin attenuates global cerebral ischemic injury in rat model by conferring neuroprotection. <i>Brain Injury</i> , 2020 , 34, 685-693	2.1	7
72	Pathophysiology of blood-brain barrier in brain tumor. Novel therapeutic advances using nanomedicine. <i>International Review of Neurobiology</i> , 2020 , 151, 1-66	4.4	17
71	Diabetes exacerbates brain pathology following a focal blast brain injury: New role of a multimodal drug cerebrolysin and nanomedicine. <i>Progress in Brain Research</i> , 2020 , 258, 285-367	2.9	3
70	Cerebrolysin enhances spinal cord conduction and reduces blood-spinal cord barrier breakdown, edema formation, immediate early gene expression and cord pathology after injury. <i>Progress in Brain Research</i> , 2020 , 258, 397-438	2.9	4
69	Withanolide a penetrates brain via intra-nasal administration and exerts neuroprotection in cerebral ischemia reperfusion injury in mice. <i>Xenobiotica</i> , 2020 , 50, 957-966	2	5
68	Concussive head injury exacerbates neuropathology of sleep deprivation: Superior neuroprotection by co-administration of TiO-nanowired cerebrolysin, alpha-melanocyte-stimulating hormone, and mesenchymal stem cells. <i>Progress in Brain Research</i> , 2020 , 258, 1-77	2.9	8

67	Co-administration of TiO-nanowired dl-3-n-butylphthalide (dl-NBP) and mesenchymal stem cells enhanced neuroprotection in Parkinson's disease exacerbated by concussive head injury. <i>Progress in Brain Research</i> , 2020 , 258, 101-155	2.9	8
66	Mild traumatic brain injury exacerbates Parkinson's disease induced hemeoxygenase-2 expression and brain pathology: Neuroprotective effects of co-administration of TiO nanowired mesenchymal stem cells and cerebrolysin. <i>Progress in Brain Research</i> , 2020 , 258, 157-231	2.9	11
65	Changes in electrolyte concentrations alter the impedance during ischemia-reperfusion injury in rat brain. <i>Physiological Measurement</i> , 2019 , 40, 105004	2.9	9
64	Neuroprotective effect of chlorogenic acid in global cerebral ischemia-reperfusion rat model. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2019 , 392, 1293-1309	3.4	20
63	Neuroprotective Potential of Small Molecule Phytochemicals in Stroke Therapy 2019 , 155-175		1
62	Exacerbation of blood-brain barrier breakdown, edema formation, nitric oxide synthase upregulation and brain pathology after heat stroke in diabetic and hypertensive rats. Potential neuroprotection with cerebrolysin treatment. <i>International Review of Neurobiology</i> , 2019 , 146, 83-102	4.4	13
61	Neuroprotective effects of 5-HT receptor antagonist ondansetron on morphine withdrawal induced brain edema formation, blood-brain barrier dysfunction, neuronal injuries, glial activation and heat shock protein upregulation in the brain. <i>International Review of Neurobiology</i> , 2019 , 146, 209-228	4.4	5
60	Pharmacokinetics and brain penetration study of chlorogenic acid in rats. <i>Xenobiotica</i> , 2019 , 49, 339-345		21
59	Inhibition of Gelatinases (MMP-2 and MMP-9) by Withania somnifera Phytochemicals Confers Neuroprotection in Stroke: An In Silico Analysis. <i>Interdisciplinary Sciences, Computational Life Sciences</i> , 2018 , 10, 722-733	3.5	18
58	Histamine H3 Inverse Agonist BF 2649 or Antagonist with Partial H4 Agonist Activity Clobenpropit Reduces Amyloid Beta Peptide-Induced Brain Pathology in Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018 , 55, 312-321	6.2	15
57	Cold Environment Exacerbates Brain Pathology and Oxidative Stress Following Traumatic Brain Injuries: Potential Therapeutic Effects of Nanowired Antioxidant Compound H-290/51. <i>Molecular Neurobiology</i> , 2018 , 55, 276-285	6.2	18
56	Repeated Forced Swim Exacerbates Methamphetamine-Induced Neurotoxicity: Neuroprotective Effects of Nanowired Delivery of 5-HT3-Receptor Antagonist Ondansetron. <i>Molecular Neurobiology</i> , 2018 , 55, 322-334	6.2	7
55	Timed Release of Cerebrolysin Using Drug-Loaded Titanate Nanospheres Reduces Brain Pathology and Improves Behavioral Functions in Parkinson's Disease. <i>Molecular Neurobiology</i> , 2018 , 55, 359-369	6.2	15
54	Cerebral Tissue Oxidative Ischemia-Reperfusion Injury in Connection with Experimental Cardiac Arrest and Cardiopulmonary Resuscitation: Effect of Mild Hypothermia and Methylene Blue. <i>Molecular Neurobiology</i> , 2018 , 55, 115-121	6.2	9
53	Effect of Chlorogenic Acid Supplementation in MPTP-Intoxicated Mouse. <i>Frontiers in Pharmacology</i> , 2018 , 9, 757	5.6	48
52	Co-Administration of TiO ₂ Nanowired Mesenchymal Stem Cells with Cerebrolysin Potentiates Neprilysin Level and Reduces Brain Pathology in Alzheimer's Disease. <i>Molecular Neurobiology</i> , 2018 , 55, 300-311	6.2	23
51	Identification of potential inhibitors of PARP-1, a regulator of caspase-independent cell death pathway, from Withania somnifera phytochemicals for combating neurotoxicity: A structure-based in-silico study. <i>Journal of Theoretical and Computational Chemistry</i> , 2017 , 16, 1750062	1.8	7
50	Histaminergic Receptors Modulate Spinal Cord Injury-Induced Neuronal Nitric Oxide Synthase Upregulation and Cord Pathology: New Roles of Nanowired Drug Delivery for Neuroprotection. <i>International Review of Neurobiology</i> , 2017 , 137, 65-98	4.4	11

49	Intravenous Administration of Functionalized Magnetic Iron Oxide Nanoparticles Does Not Induce CNS Injury in the Rat: Influence of Spinal Cord Trauma and Cerebrolysin Treatment. <i>International Review of Neurobiology</i> , 2017 , 137, 47-63	4.4	11
48	Withania somniferaphytochemicals confer neuroprotection by selective inhibition of nNos: An in silico study to search potent and selective inhibitors for human nNOS. <i>Journal of Theoretical and Computational Chemistry</i> , 2017 , 16, 1750042	1.8	14
47	Novel Treatment Strategies Using TiO ₂ -Nanowired Delivery of Histaminergic Drugs and Antibodies to Tau With Cerebrolysin for Superior Neuroprotection in the Pathophysiology of Alzheimer's Disease. <i>International Review of Neurobiology</i> , 2017 , 137, 123-165	4.4	13
46	Withania somnifera Phytochemicals Confer Neuroprotection by Inhibition of the Catalytic Domain of Human Matrix Metalloproteinase-9. <i>Letters in Drug Design and Discovery</i> , 2017 , 14,	0.8	8
45	Exploring neuroprotective potential of Withania somnifera phytochemicals by inhibition of GluN2B-containing NMDA receptors: An in silico study. <i>Medical Hypotheses</i> , 2016 , 92, 35-43	3.8	36
44	Pathophysiology of Blood-Brain Barrier in Brain Injury in Cold and Hot Environments: Novel Drug Targets for Neuroprotection. <i>CNS and Neurological Disorders - Drug Targets</i> , 2016 , 15, 1045-1071	2.6	23
43	A possible therapeutic potential of quercetin through inhibition of β -catenin in hypoxia induced neuronal injury: a molecular dynamics simulation study. <i>Neural Regeneration Research</i> , 2016 , 11, 1247-53	4.5	10
42	Sleep Deprivation-Induced Blood-Brain Barrier Breakdown and Brain Dysfunction are Exacerbated by Size-Related Exposure to Ag and Cu Nanoparticles. Neuroprotective Effects of a 5-HT ₃ Receptor Antagonist Ondansetron. <i>Molecular Neurobiology</i> , 2015 , 52, 867-81	6.2	27
41	Nanoparticles Exacerbate Both Ubiquitin and Heat Shock Protein Expressions in Spinal Cord Injury: Neuroprotective Effects of the Proteasome Inhibitor Carfilzomib and the Antioxidant Compound H-290/51. <i>Molecular Neurobiology</i> , 2015 , 52, 882-98	6.2	18
40	Cardiac Arrest Alters Regional Ubiquitin Levels in Association with the Blood-Brain Barrier Breakdown and Neuronal Damages in the Porcine Brain. <i>Molecular Neurobiology</i> , 2015 , 52, 1043-53	6.2	7
39	Exacerbation of Methamphetamine Neurotoxicity in Cold and Hot Environments: Neuroprotective Effects of an Antioxidant Compound H-290/51. <i>Molecular Neurobiology</i> , 2015 , 52, 1023-33	6.2	17
38	Nanowired Delivery of Growth Hormone Attenuates Pathophysiology of Spinal Cord Injury and Enhances Insulin-Like Growth Factor-1 Concentration in the Plasma and the Spinal Cord. <i>Molecular Neurobiology</i> , 2015 , 52, 837-45	6.2	20
37	TiO ₂ -Nanowired Delivery of Mesenchymal Stem Cells Thwarts Diabetes- Induced Exacerbation of Brain Pathology in Heat Stroke: An Experimental Study in the Rat Using Morphological and Biochemical Approaches. <i>CNS and Neurological Disorders - Drug Targets</i> , 2015 , 14, 386-99	2.6	22
36	Resveratrol inhibits matrix metalloproteinases to attenuate neuronal damage in cerebral ischemia: a molecular docking study exploring possible neuroprotection. <i>Neural Regeneration Research</i> , 2015 , 10, 568-75	4.5	42
35	Piroxicam-mediated modulatory action of 5-hydroxytryptamine serves as a "brake" on neuronal excitability in ischemic stroke. <i>Neural Regeneration Research</i> , 2015 , 10, 1418-20	4.5	1
34	Melatonin renders neuroprotection by protein kinase C mediated aquaporin-4 inhibition in animal model of focal cerebral ischemia. <i>Life Sciences</i> , 2014 , 100, 97-109	6.8	40
33	Alleviation of glutamate mediated neuronal insult by piroxicam in rodent model of focal cerebral ischemia: a possible mechanism of GABA agonism. <i>Journal of Physiology and Biochemistry</i> , 2014 , 70, 901-13	5.3	11
32	Development of in vivo drug-induced neurotoxicity models. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , 2014 , 10, 1637-61	5.5	16

31	The role of functionalized magnetic iron oxide nanoparticles in the central nervous system injury and repair: new potentials for neuroprotection with Cerebrolysin therapy. <i>Journal of Nanoscience and Nanotechnology</i> , 2014 , 14, 577-95	1.3	26
30	Exacerbation of brain pathology after partial restraint in hypertensive rats following SiO ₂ nanoparticles exposure at high ambient temperature. <i>Molecular Neurobiology</i> , 2013 , 48, 368-79	6.2	19
29	Size- and age-dependent neurotoxicity of engineered metal nanoparticles in rats. <i>Molecular Neurobiology</i> , 2013 , 48, 386-96	6.2	53
28	Neuroprotection by Ecalpain and matrix metalloproteinases inhibition by Piroxicam in cerebral ischemia: an in silico study. <i>Medicinal Chemistry Research</i> , 2013 , 22, 5112-5119	2.2	3
27	Neuroprotective effects of quercetin in chemical hypoxia: in silico evaluation of the hypothesis exploring PKC inhibition-mediated pharmacotherapy. <i>Medicinal Chemistry Research</i> , 2013 , 22, 4836-4841 ^{2.2}	2.2	2
26	Does Piroxicam really protect ischemic neurons and influence neuronal firing in cerebral ischemia? An exploration towards therapeutics. <i>Medical Hypotheses</i> , 2013 , 81, 429-35	3.8	3
25	Aquaporin-4 inhibition mediates piroxicam-induced neuroprotection against focal cerebral ischemia/reperfusion injury in rodents. <i>PLoS ONE</i> , 2013 , 8, e73481	3.7	46
24	An in-silico strategy to explore neuroprotection by quercetin in cerebral ischemia: a novel hypothesis based on inhibition of matrix metalloproteinase (MMPs) and acid sensing ion channel 1a (ASIC1a). <i>Medical Hypotheses</i> , 2012 , 79, 76-81	3.8	15
23	Neuroprotective potential of Piroxicam in cerebral ischemia: an in silico evaluation of the hypothesis to explore its therapeutic efficacy by inhibition of aquaporin-4 and acid sensing ion channel1a. <i>Medical Hypotheses</i> , 2012 , 79, 352-7	3.8	19
22	Cognitive effects of NSAIDs in cerebral ischemia: a hypothesis exploring mechanical action mediated pharmacotherapy. <i>Medical Hypotheses</i> , 2012 , 79, 393-5	3.8	6
21	Quercetin in hypoxia-induced oxidative stress: novel target for neuroprotection. <i>International Review of Neurobiology</i> , 2012 , 102, 107-46	4.4	36
20	Combination therapy of ifenprodil with piroxicam may be an effective therapeutic intervention in cerebral stroke: a hypothesis. <i>Medical Hypotheses</i> , 2012 , 79, 516-8	3.8	5
19	Diabetes exacerbates nanoparticles induced brain pathology. <i>CNS and Neurological Disorders - Drug Targets</i> , 2012 , 11, 26-39	2.6	15
18	Simulated annealing-based particle swarm optimisation with adaptive jump strategy for modelling of dynamic cerebral pressure autoregulation mechanism. <i>International Journal of Bio-Inspired Computation</i> , 2011 , 3, 225	2.9	8
17	The role of ASIC1a in neuroprotection elicited by quercetin in focal cerebral ischemia. <i>Brain Research</i> , 2011 , 1383, 289-99	3.7	36
16	Cerebrolysin Attenuates Heat Shock Protein (HSP 72 KD) Expression in the Rat Spinal Cord Following Morphine Dependence and Withdrawal: Possible New Therapy for Pain Management. <i>Current Neuropharmacology</i> , 2011 , 9, 223-35	7.6	25
15	Superior neuroprotective effects of cerebrolysin in heat stroke following chronic intoxication of Cu or Ag engineered nanoparticles. A comparative study with other neuroprotective agents using biochemical and morphological approaches in the rat. <i>Journal of Nanoscience and Nanotechnology</i> , 2011 , 11, 7549-69	1.3	29
14	Diabetes aggravates nanoparticles induced breakdown of the blood-brain barrier permeability, brain edema formation, alterations in cerebral blood flow and neuronal injury. An experimental study using physiological and morphological investigations in the rat. <i>Journal of Nanoscience and Nanotechnology</i> , 2010 , 10, 7981-85	1.3	22

13	Modelling of dynamic cerebral pressure autoregulation using sequential genetic algorithm. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2010 , 1, 299	0.3	
12	Antibodies to dynorphin a (1-17) attenuate closed head injury induced blood-brain barrier disruption, brain edema formation and brain pathology in the rat. <i>Acta Neurochirurgica Supplementum</i> , 2010 , 106, 301-6	1.7	9
11	Nanowired-drug delivery enhances neuroprotective efficacy of compounds and reduces spinal cord edema formation and improves functional outcome following spinal cord injury in the rat. <i>Acta Neurochirurgica Supplementum</i> , 2010 , 106, 343-50	1.7	24
10	Silicon dioxide nanoparticles (SiO ₂ , 40-50 nm) exacerbate pathophysiology of traumatic spinal cord injury and deteriorate functional outcome in the rat. An experimental study using pharmacological and morphological approaches. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 4970-80	1.3	29
9	Cocaine-induced breakdown of the blood-brain barrier and neurotoxicity. <i>International Review of Neurobiology</i> , 2009 , 88, 297-334	4.4	71
8	Chapter 9 - Nanoparticles influence pathophysiology of spinal cord injury and repair. <i>Progress in Brain Research</i> , 2009 , 180, 154-80	2.9	17
7	Nano-drug delivery and neuroprotection in spinal cord injury. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 5014-37	1.3	38
6	Drug delivery to the spinal cord tagged with nanowire enhances neuroprotective efficacy and functional recovery following trauma to the rat spinal cord. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1122, 197-218	6.5	48
5	Antibodies to serotonin attenuate closed head injury induced blood brain barrier disruption and brain pathology. <i>Annals of the New York Academy of Sciences</i> , 2007 , 1122, 295-312	6.5	35
4	Zinc protoporphyrin IX attenuates closed head injury-induced edema formation, blood-brain barrier disruption, and serotonin levels in the rat. <i>Acta Neurochirurgica Supplementum</i> , 2006 , 96, 151-6	1.7	19
3	Histamine receptors influence blood-spinal cord barrier permeability, edema formation, and spinal cord blood flow following trauma to the rat spinal cord. <i>Acta Neurochirurgica Supplementum</i> , 2006 , 96, 316-21	1.7	18
2	Blood-Central Nervous System Barriers in Morphine Dependence and Withdrawal 2004 , 299-328		11
1	Unmasking the potential role of plant-based medicine Plumbagin in oral cancer: A Novel Paradigm. <i>Oral Science International</i> ,	0.5	1