

# Ranjana Patnaik

## List of Publications by Citations

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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	Cocaine-induced breakdown of the blood-brain barrier and neurotoxicity. <i>International Review of Neurobiology</i> , <b>2009</b> , 88, 297-334	4.4	71
83	Size- and age-dependent neurotoxicity of engineered metal nanoparticles in rats. <i>Molecular Neurobiology</i> , <b>2013</b> , 48, 386-96	6.2	53
82	Effect of Chlorogenic Acid Supplementation in MPTP-Intoxicated Mouse. <i>Frontiers in Pharmacology</i> , <b>2018</b> , 9, 757	5.6	48
81	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> , <b>2007</b> , 1122, 197-218	6.5	48
80	Aquaporin-4 inhibition mediates piroxicam-induced neuroprotection against focal cerebral ischemia/reperfusion injury in rodents. <i>PLoS ONE</i> , <b>2013</b> , 8, e73481	3.7	46
79	Resveratrol inhibits matrix metalloproteinases to attenuate neuronal damage in cerebral ischemia: a molecular docking study exploring possible neuroprotection. <i>Neural Regeneration Research</i> , <b>2015</b> , 10, 568-75	4.5	42
78	Melatonin renders neuroprotection by protein kinase C mediated aquaporin-4 inhibition in animal model of focal cerebral ischemia. <i>Life Sciences</i> , <b>2014</b> , 100, 97-109	6.8	40
77	Nano-drug delivery and neuroprotection in spinal cord injury. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 5014-37	1.3	38
76	Exploring neuroprotective potential of Withania somnifera phytochemicals by inhibition of GluN2B-containing NMDA receptors: An in silico study. <i>Medical Hypotheses</i> , <b>2016</b> , 92, 35-43	3.8	36
75	Quercetin in hypoxia-induced oxidative stress: novel target for neuroprotection. <i>International Review of Neurobiology</i> , <b>2012</b> , 102, 107-46	4.4	36
74	The role of ASIC1a in neuroprotection elicited by quercetin in focal cerebral ischemia. <i>Brain Research</i> , <b>2011</b> , 1383, 289-99	3.7	36
73	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> , <b>2007</b> , 1122, 295-312	6.5	35
72	Silicon dioxide nanoparticles (SiO <sub>2</sub> , 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> , <b>2009</b> , 9, 4970-80	1.3	29
71	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> , <b>2011</b> , 11, 7549-69	1.3	29
70	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 <sub>3</sub> Receptor Antagonist Ondansetron. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 867-81	6.2	27
69	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> , <b>2014</b> , 14, 577-95	1.3	26
68	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> , <b>2011</b> , 9, 223-35	7.6	25

67	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> , <b>2010</b> , 106, 343-50	1.7	24
66	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> , <b>2016</b> , 15, 1045-1071	2.6	23
65	Co-Administration of TiO <sub>2</sub> Nanowired Mesenchymal Stem Cells with Cerebrolysin Potentiates Nephilysin Level and Reduces Brain Pathology in Alzheimer's Disease. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 300-311	6.2	23
64	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> , <b>2012</b> , 14, 7231-45	1.3	22
63	TiO <sub>2</sub> -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> , <b>2015</b> , 14, 386-99	2.6	22
62	Pharmacokinetics and brain penetration study of chlorogenic acid in rats. <i>Xenobiotica</i> , <b>2019</b> , 49, 339-345		21
61	Neuroprotective effect of chlorogenic acid in global cerebral ischemia-reperfusion rat model. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , <b>2019</b> , 392, 1293-1309	3.4	20
60	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> , <b>2015</b> , 52, 837-45	6.2	20
59	Exacerbation of brain pathology after partial restraint in hypertensive rats following SiO <sub>2</sub> nanoparticles exposure at high ambient temperature. <i>Molecular Neurobiology</i> , <b>2013</b> , 48, 368-79	6.2	19
58	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> , <b>2012</b> , 79, 352-7	3.8	19
57	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> , <b>2006</b> , 96, 151-6	1.7	19
56	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> , <b>2015</b> , 52, 882-98	6.2	18
55	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> , <b>2018</b> , 10, 722-733	3.5	18
54	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> , <b>2018</b> , 55, 276-285	6.2	18
53	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> , <b>2006</b> , 96, 316-21	1.7	18
52	Exacerbation of Methamphetamine Neurotoxicity in Cold and Hot Environments: Neuroprotective Effects of an Antioxidant Compound H-290/51. <i>Molecular Neurobiology</i> , <b>2015</b> , 52, 1023-33	6.2	17
51	Chapter 9 - Nanoparticles influence pathophysiology of spinal cord injury and repair. <i>Progress in Brain Research</i> , <b>2009</b> , 180, 154-80	2.9	17
50	Pathophysiology of blood-brain barrier in brain tumor. Novel therapeutic advances using nanomedicine. <i>International Review of Neurobiology</i> , <b>2020</b> , 151, 1-66	4.4	17

49	Development of in vivo drug-induced neurotoxicity models. <i>Expert Opinion on Drug Metabolism and Toxicology</i> , <b>2014</b> , 10, 1637-61	5.5	16
48	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> , <b>2018</b> , 55, 312-321	6.2	15
47	Timed Release of Cerebrolysin Using Drug-Loaded Titanate Nanospheres Reduces Brain Pathology and Improves Behavioral Functions in Parkinson's Disease. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 359-369	6.2	15
46	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> , <b>2012</b> , 79, 76-81	3.8	15
45	Diabetes exacerbates nanoparticles induced brain pathology. <i>CNS and Neurological Disorders - Drug Targets</i> , <b>2012</b> , 11, 26-39	2.6	15
44	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> , <b>2017</b> , 16, 1750042	1.8	14
43	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> , <b>2019</b> , 146, 83-102	4.4	13
42	Novel Treatment Strategies Using TiO-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> , <b>2017</b> , 137, 123-165	4.4	13
41	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> , <b>2017</b> , 137, 65-98	4.4	11
40	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> , <b>2017</b> , 137, 47-63	4.4	11
39	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> , <b>2014</b> , 70, 901-913	5.3	11
38	Blood-Central Nervous System Barriers in Morphine Dependence and Withdrawal <b>2004</b> , 299-328		11
37	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> , <b>2020</b> , 258, 157-231	2.9	11
36	A possible therapeutic potential of quercetin through inhibition of $\beta$ -catenin in hypoxia induced neuronal injury: a molecular dynamics simulation study. <i>Neural Regeneration Research</i> , <b>2016</b> , 11, 1247-53	4.5	10
35	Changes in electrolyte concentrations alter the impedance during ischemia-reperfusion injury in rat brain. <i>Physiological Measurement</i> , <b>2019</b> , 40, 105004	2.9	9
34	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> , <b>2018</b> , 55, 115-121	6.2	9
33	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> , <b>2010</b> , 106, 301-6	1.7	9
32	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> , <b>2011</b> , 3, 225	2.9	8

31	Withania somnifera Phytochemicals Confer Neuroprotection by Inhibition of the Catalytic Domain of Human Matrix Metalloproteinase-9. <i>Letters in Drug Design and Discovery</i> , <b>2017</b> , 14,	0.8	8
30	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> , <b>2020</b> , 258, 1-77	2.9	8
29	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> , <b>2020</b> , 258, 101-155	2.9	8
28	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> , <b>2017</b> , 16, 1750062	1.8	7
27	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> , <b>2015</b> , 52, 1043-53	6.2	7
26	Prolactin attenuates global cerebral ischemic injury in rat model by conferring neuroprotection. <i>Brain Injury</i> , <b>2020</b> , 34, 685-693	2.1	7
25	Repeated Forced Swim Exacerbates Methamphetamine-Induced Neurotoxicity: Neuroprotective Effects of Nanowired Delivery of 5-HT <sub>3</sub> -Receptor Antagonist Ondansetron. <i>Molecular Neurobiology</i> , <b>2018</b> , 55, 322-334	6.2	7
24	Cognitive effects of NSAIDs in cerebral ischemia: a hypothesis exploring mechanical action mediated pharmacotherapy. <i>Medical Hypotheses</i> , <b>2012</b> , 79, 393-5	3.8	6
23	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> , <b>2019</b> , 146, 209-228	4.4	5
22	Combination therapy of ifenprodil with piroxicam may be an effective therapeutic intervention in cerebral stroke: a hypothesis. <i>Medical Hypotheses</i> , <b>2012</b> , 79, 516-8	3.8	5
21	Withanolide a penetrates brain via intra-nasal administration and exerts neuroprotection in cerebral ischemia reperfusion injury in mice. <i>Xenobiotica</i> , <b>2020</b> , 50, 957-966	2	5
20	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> , <b>2020</b> , 258, 397-438	2.9	4
19	Neuroprotection by Ecalpain and matrix metalloproteinases inhibition by Piroxicam in cerebral ischemia: an in silico study. <i>Medicinal Chemistry Research</i> , <b>2013</b> , 22, 5112-5119	2.2	3
18	Does Piroxicam really protect ischemic neurons and influence neuronal firing in cerebral ischemia? An exploration towards therapeutics. <i>Medical Hypotheses</i> , <b>2013</b> , 81, 429-35	3.8	3
17	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> , <b>2020</b> , 258, 285-367	2.9	3
16	Neuroprotective effects of quercetin in chemical hypoxia: in silico evaluation of the hypothesis exploring PKC inhibition-mediated pharmacotherapy. <i>Medicinal Chemistry Research</i> , <b>2013</b> , 22, 4836-4841 <sup>2,2</sup>		2
15	Neuroprotective Potential of Small Molecule Phytochemicals in Stroke Therapy <b>2019</b> , 155-175		1
14	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> , <b>2021</b> , 266, 301-348	2.9	1

13	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> , <b>2021</b> , 266, 1-73	2.9	1
12	Piroxicam-mediated modulatory action of 5-hydroxytryptamine serves as a "brake" on neuronal excitability in ischemic stroke. <i>Neural Regeneration Research</i> , <b>2015</b> , 10, 1418-20	4.5	1
11	Unmasking the potential role of plant-based medicine Plumbagin in oral cancer: A Novel Paradigm. <i>Oral Science International</i> ,	0.5	1
10	Upregulation of hemoxygenase 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> , <b>2021</b> , 265, 317-375	2.9	1
9	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> , <b>2021</b> , 12, 308-312	0.6	1
8	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> , <b>2021</b> , 266, 97-121	2.9	0
7	Nanodelivery of oxiracetam enhances memory, functional recovery and induces neuroprotection following concussive head injury. <i>Progress in Brain Research</i> , <b>2021</b> , 265, 139-230	2.9	0
6	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> , <b>2021</b> , 265, 1-97	2.9	0
5	Modelling of dynamic cerebral pressure autoregulation using sequential genetic algorithm. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , <b>2010</b> , 1, 299	0.3	
4	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> , <b>2021</b> , 266, 123-193	2.9	
3	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> , <b>2021</b> , 91, 361-368	0.9	
2	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> , <b>2021</b> , 265, 249-315	2.9	
1	Retraction notice to "Melatonin renders neuroprotection by protein kinase C mediated aquaporin-4 inhibition in animal model of focal cerebral ischemia" [Life Sci. 100 (2014) 97-109]. <i>Life Sciences</i> , <b>2021</b> , 281, 119209	6.8	