

# Ranjana Patnaik

## List of Publications by Year in descending order

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82  
papers

1,874  
citations

218381

26  
h-index

315357

38  
g-index

89  
all docs

89  
docs citations

89  
times ranked

1835  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of Chlorogenic Acid Supplementation in MPTP-Intoxicated Mouse. <i>Frontiers in Pharmacology</i> , 2018, 9, 757.	1.6	93
2	Cocaine-Induced Breakdown of the Blood–Brain Barrier and Neurotoxicity. <i>International Review of Neurobiology</i> , 2009, 88, 297-334.	0.9	89
3	Size- and Age-Dependent Neurotoxicity of Engineered Metal Nanoparticles in Rats. <i>Molecular Neurobiology</i> , 2013, 48, 386-396.	1.9	67
4	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.	1.8	63
5	Aquaporin-4 Inhibition Mediates Piroxicam-Induced Neuroprotection against Focal Cerebral Ischemia/Reperfusion Injury in Rodents. <i>PLoS ONE</i> , 2013, 8, e73481.	1.1	52
6	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.	1.6	50
7	Nano-Drug Delivery and Neuroprotection in Spinal Cord Injury. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 5014-5037.	0.9	49
8	Exploring neuroprotective potential of <i>Withania somnifera</i> phytochemicals by inhibition of GluN2B-containing NMDA receptors: An in silico study. <i>Medical Hypotheses</i> , 2016, 92, 35-43.	0.8	49
9	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.	1.8	44
10	Neuroprotective effect of chlorogenic acid in global cerebral ischemia-reperfusion rat model. <i>Naunyn-Schmiedeberg's Archives of Pharmacology</i> , 2019, 392, 1293-1309.	1.4	43
11	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> , 2009, 9, 4970-4980.	0.9	40
12	Quercetin in Hypoxia-Induced Oxidative Stress: Novel Target for Neuroprotection. <i>International Review of Neurobiology</i> , 2012, 102, 107-146.	0.9	40
13	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-HT3 Receptor Antagonist Ondansetron. <i>Molecular Neurobiology</i> , 2015, 52, 867-881.	1.9	40
14	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, 7549-7569.	0.9	37
15	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> , 2018, 55, 300-311.	1.9	37
16	Pathophysiology of blood-brain barrier in brain tumor. Novel therapeutic advances using nanomedicine. <i>International Review of Neurobiology</i> , 2020, 151, 1-66.	0.9	36
17	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.	0.8	32
18	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, 223-235.	1.4	29

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19	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, 577-595.	0.9	29
20	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.	1.9	29
21	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> , 2015, 14, 386-399.	0.8	29
22	Pharmacokinetics and brain penetration study of chlorogenic acid in rats. <i>Xenobiotica</i> , 2019, 49, 339-345.	0.5	28
23	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, 837-845.	1.9	27
24	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, 343-350.	0.5	27
25	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, 7931-7945.	0.9	25
26	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, 882-898.	1.9	25
27	Nanoparticles influence pathophysiology of spinal cord injury and repair. <i>Progress in Brain Research</i> , 2009, 180, 154-180.	0.9	24
28	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 channel 1a. <i>Medical Hypotheses</i> , 2012, 79, 352-357.	0.8	23
29	Novel Treatment Strategies Using TiO <sub>2</sub> -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.	0.9	23
30	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.	0.9	23
31	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.	2.2	23
32	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.	1.9	23
33	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> , 2013, 48, 368-379.	1.9	22
34	Exacerbation of Methamphetamine Neurotoxicity in Cold and Hot Environments: Neuroprotective Effects of an Antioxidant Compound H-290/51. <i>Molecular Neurobiology</i> , 2015, 52, 1023-1033.	1.9	22
35	Mild traumatic brain injury exacerbates Parkinson's disease induced hemeoxygenase-2 expression and brain pathology: Neuroprotective effects of co-administration of TiO <sub>2</sub> nanowired mesenchymal stem cells and cerebrolysin. <i>Progress in Brain Research</i> , 2020, 258, 157-231.	0.9	21
36	Zinc protoporphyrin IX attenuates closed head injury-induced edema formation, blood-brain barrier disruption, and serotonin levels in the rat. , 2006, 96, 151-156.		21

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37	Histamine receptors influence blood-spinal cord barrier permeability, edema formation, and spinal cord blood flow following trauma to the rat spinal cord. , 2006, 96, 316-321.		21
38	Development of <i>in vivo</i> drug-induced neurotoxicity models. Expert Opinion on Drug Metabolism and Toxicology, 2014, 10, 1637-1661.	1.5	20
39	Timed Release of Cerebrolysin Using Drug-Loaded Titanate Nanospheres Reduces Brain Pathology and Improves Behavioral Functions in Parkinson's Disease. Molecular Neurobiology, 2018, 55, 359-369.	1.9	20
40	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. International Review of Neurobiology, 2019, 146, 83-102.	0.9	20
41	Diabetes Exacerbates Nanoparticles Induced Brain Pathology. CNS and Neurological Disorders - Drug Targets, 2012, 11, 26-39.	0.8	17
42	An <i>in-silico</i> 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). Medical Hypotheses, 2012, 79, 76-81.	0.8	16
43	Co-administration of TiO <sub>2</sub> -nanowired dl-3-n-butylphthalide (dl-NBP) and mesenchymal stem cells enhanced neuroprotection in Parkinson's disease exacerbated by concussive head injury. Progress in Brain Research, 2020, 258, 101-155.	0.9	16
44	Alleviation of glutamate mediated neuronal insult by piroxicam in rodent model of focal cerebral ischemia: a possible mechanism of GABA agonism. Journal of Physiology and Biochemistry, 2014, 70, 901-913.	1.3	15
45	<i>Withania somnifera</i> phytochemicals confer neuroprotection by selective inhibition of nNos: An <i>in silico</i> study to search potent and selective inhibitors for human nNOS. Journal of Theoretical and Computational Chemistry, 2017, 16, 1750042.	1.8	15
46	Histaminergic Receptors Modulate Spinal Cord Injury-Induced Neuronal Nitric Oxide Synthase Upregulation and Cord Pathology: New Roles of Nanowired Drug Delivery for Neuroprotection. International Review of Neurobiology, 2017, 137, 65-98.	0.9	15
47	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. Progress in Brain Research, 2021, 266, 1-73.	0.9	15
48	Changes in electrolyte concentrations alter the impedance during ischemia-reperfusion injury in rat brain. Physiological Measurement, 2019, 40, 105004.	1.2	14
49	A possible therapeutic potential of quercetin through inhibition of $\frac{1}{4}$ -calpain in hypoxia induced neuronal injury: a molecular dynamics simulation study. Neural Regeneration Research, 2016, 11, 1247.	1.6	14
50	Repeated Forced Swim Exacerbates Methamphetamine-Induced Neurotoxicity: Neuroprotective Effects of Nanowired Delivery of 5-HT <sub>3</sub> -Receptor Antagonist Ondansetron. Molecular Neurobiology, 2018, 55, 322-334.	1.9	13
51	Neuroprotective effects of 5-HT <sub>3</sub> 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. International Review of Neurobiology, 2019, 146, 209-228.	0.9	13
52	Antibodies to Dynorphin A (1-17) Attenuate Closed Head Injury Induced Blood-Brain Barrier Disruption, Brain Edema Formation and Brain Pathology in the Rat. Acta Neurochirurgica Supplementum, 2010, 106, 301-306.	0.5	13
53	Withanolide a penetrates brain via intra-nasal administration and exerts neuroprotection in cerebral ischemia reperfusion injury in mice. Xenobiotica, 2020, 50, 957-966.	0.5	12
54	Concussive head injury exacerbates neuropathology of sleep deprivation: Superior neuroprotection by co-administration of TiO <sub>2</sub> -nanowired cerebrolysin, alpha-melanocyte-stimulating hormone, and mesenchymal stem cells. Progress in Brain Research, 2020, 258, 1-77.	0.9	12

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55	Blood-Central Nervous System Barriers in Morphine Dependence and Withdrawal. , 2004, , 299-328.		12
56	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.	1.9	11
57	Prolactin attenuates global cerebral ischemic injury in rat model by conferring neuroprotection. <i>Brain Injury</i> , 2020, 34, 685-693.	0.6	11
58	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.	0.9	11
59	<i>Withania somnifera</i> Phytochemicals Confer Neuroprotection by Inhibition of the Catalytic Domain of Human Matrix Metalloproteinase-9. <i>Letters in Drug Design and Discovery</i> , 2017, 14, .	0.4	11
60	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.	0.6	10
61	Cardiac Arrest Alters Regional Ubiquitin Levels in Association with the Bloodâ€“Brain Barrier Breakdown and Neuronal Damages in the Porcine Brain. <i>Molecular Neurobiology</i> , 2015, 52, 1043-1053.	1.9	9
62	Identification of potential inhibitors of PARP-1, a regulator of caspase-independent cell death pathway, from <i>Withania somnifera</i> phytochemicals for combating neurotoxicity: A structure-based in-silico study. <i>Journal of Theoretical and Computational Chemistry</i> , 2017, 16, 1750062.	1.8	9
63	Nanodelivery of oxiracetam enhances memory, functional recovery and induces neuroprotection following concussive head injury. <i>Progress in Brain Research</i> , 2021, 265, 139-230.	0.9	9
64	Neuroprotective effects of insulin like growth factor-1 on engineered metal nanoparticles Ag <sub>2</sub> 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.	0.9	9
65	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.	0.9	8
66	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.	0.9	8
67	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.	0.9	7
68	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.	0.9	7
69	Cognitive effects of NSAIDs in cerebral ischemia: A hypothesis exploring mechanical action mediated pharmacotherapy. <i>Medical Hypotheses</i> , 2012, 79, 393-395.	0.8	6
70	Combination therapy of Ifenprodil with Piroxicam may be an effective therapeutic intervention in cerebral stroke: A hypothesis. <i>Medical Hypotheses</i> , 2012, 79, 516-518.	0.8	6
71	Neuroprotection by 1/4-calpain and matrix metalloproteinases inhibition by Piroxicam in cerebral ischemia: an in silico study. <i>Medicinal Chemistry Research</i> , 2013, 22, 5112-5119.	1.1	5
72	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.	0.9	5

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73	Does Piroxicam really protect ischemic neurons and influence neuronal firing in cerebral ischemia? An exploration towards therapeutics. <i>Medical Hypotheses</i> , 2013, 81, 429-435.	0.8	4
74	Unmasking the potential role of plant-based medicine – Plumbagin – in oral cancer – A Novel Paradigm. <i>Oral Science International</i> , 0, , .	0.3	3
75	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.	1.6	3
76	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.	1.1	2
77	Neuroprotective Potential of Small Molecule Phytochemicals in Stroke Therapy. , 2019, , 155-175.		2
78	Commentary 2 (The Contribution of Glial Cells and Water Channel Aquaporin-4 in the Neuropathology) <i>Tj ETQq0 0 0 rgBT /Oyerlock 10</i>	0.8	1
79	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.	0.9	1
80	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.	0.2	1
81	Modelling of dynamic cerebral pressure autoregulation using sequential genetic algorithm. <i>International Journal of Mathematical Modelling and Numerical Optimisation</i> , 2010, 1, 299.	0.1	0
82	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.	0.8	0