Zubair Ahmed

List of Publications by Year
in descending order

109 papers	3,633 citations	159525 30 h-index	161767 54 g-index
112 all docs	112 docs citations	112 times ranked	4426 citing authors

#	Article	IF	Citations
1	Targeting Aquaporin-4 Subcellular Localization to Treat Central Nervous System Edema. Cell, 2020, 181, 784-799.e19.	13.5	271
2	A versatile reducible polycation-based system for efficient delivery of a broad range of nucleic acids. Nucleic Acids Research, 2005, 33, e86-e86.	6.5	245
3	Management of flail chest injury: Internal fixation versus endotracheal intubation and ventilation. Journal of Thoracic and Cardiovascular Surgery, 1995, 110, 1676-1680.	0.4	197
4	Loss-of-Function Mutations in RAB18 Cause Warburg Micro Syndrome. American Journal of Human Genetics, 2011, 88, 499-507.	2.6	158
5	Neurotrophic factor synergy is required for neuronal survival and disinhibited axon regeneration after CNS injury. Brain, 2006, 129, 490-502.	3.7	135
6	Ocular neuroprotection by siRNA targeting caspase-2. Cell Death and Disease, 2011, 2, e173-e173.	2.7	127
7	Regeneration of axons in the visual system. Restorative Neurology and Neuroscience, 2008, 26, 147-74.	0.4	110
8	Matrix metalloproteases: degradation of the inhibitory environment of the transected optic nerve and the scar by regenerating axons. Molecular and Cellular Neurosciences, 2005, 28, 64-78.	1.0	92
9	Disinhibition of neurotrophin-induced dorsal root ganglion cell neurite outgrowth on CNS myelin by siRNA-mediated knockdown of NgR, p75NTR and Rho-A. Molecular and Cellular Neurosciences, 2005, 28, 509-523.	1.0	87
10	Schwann cell-derived factor-induced modulation of the NgR/p75NTR/EGFR axis disinhibits axon growth through CNS myelin in vivo and in vitro. Brain, 2006, 129, 1517-1533.	3.7	79
11	Mesenchymal Stem Cellâ€“Derived Small Extracellular Vesicles Promote Neuroprotection in a Genetic DBA/2J Mouse Model of Glaucoma. , 2018, 59, 5473.		76
12	TACEâ€induced cleavage of NgR and p75 NTR in dorsal root ganglion cultures disinhibits outgrowth and promotes branching of neurites in the presence of inhibitory CNS myelin. FASEB Journal, 2006, 20, 1939-1941.	0.2	72
13	Off-target effects of epidermal growth factor receptor antagonists mediate retinal ganglion cell disinhibited axon growth. Brain, 2009, 132, 3102-3121.	3.7	67
14	Angiogenic Signalling Pathways. Methods in Molecular Biology, 2009, 467, 3-24.	0.4	67
15	Caspases in retinal ganglion cell death and axon regeneration. Cell Death Discovery, 2017, 3, 17032.	2.0	64
16	Exploiting mTOR Signaling: A Novel Translatable Treatment Strategy for Traumatic Optic Neuropathy?. , 2013, 54, 6903.		59
17	ROCK inhibition promotes adult retinal ganglion cell neurite outgrowth only in the presence of growth promoting factors. Molecular and Cellular Neurosciences, 2009, 42, 128-133.	1.0	58
18	Synovial tissue from sites of joint pain in knee osteoarthritis patients exhibits a differential phenotype with distinct fibroblast subsets. EBioMedicine, 2021, 72, 103618.	2.7	58

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19	A Role for Caspase-1 and -3 in the Pathology of Experimental Allergic Encephalomyelitis. American Journal of Pathology, 2002, 161, 1577-1586.	1.9	57
20	Combined suppression of CASP2 and CASP6 protects retinal ganglion cells from apoptosis and promotes axon regeneration through CNTF-mediated JAK/STAT signalling. Brain, 2014, 137, 1656-1675.	3.7	57
21	AAV8gfp preferentially targets large diameter dorsal root ganglion neurones after both intra-dorsal root ganglion and intrathecal injection. Molecular and Cellular Neurosciences, 2012, 49, 464-474.	1.0	56
22	Prospects for mTOR-mediated functional repair after central nervous system trauma. Neurobiology of Disease, 2016, 85, 99-110.	2.1	55
23	Pigment Epithelium-Derived Factor Is Retinal Ganglion Cell Neuroprotective and Axogenic After Optic Nerve Crush Injury. , 2013, 54, 2624.		50
24	Differential cavitation, angiogenesis and wound-healing responses in injured mouse and rat spinal cords. Neuroscience, 2014, 275, 62-80.	1.1	50
25	TNFÎ±-Mediated Priming of Mesenchymal Stem Cells Enhances Their Neuroprotective Effect on Retinal Ganglion Cells. , 2020, 61, 6.		49
26	Decorin blocks scarring and cystic cavitation in acute and induces scar dissolution in chronic spinal cord wounds. Neurobiology of Disease, 2014, 64, 163-176.	2.1	47
27	Optic nerve and vitreal inflammation are both RGC neuroprotective but only the latter is RGC axogenic. Neurobiology of Disease, 2010, 37, 441-454.	2.1	45
28	Contact Lenses for Color Blindness. Advanced Healthcare Materials, 2018, 7, e1800152.	3.9	45
29	The Role of Caspase-2 in Regulating Cell Fate. Cells, 2020, 9, 1259.	1.8	44
30	Pharmacological Inhibition of Caspase-2 Protects Axotomised Retinal Ganglion Cells from Apoptosis in Adult Rats. PLoS ONE, 2012, 7, e53473.	1.1	42
31	The role of angiogenic and wound-healing factors after spinal cord injury in mammals. Neuroscience Research, 2013, 76, 1-9.	1.0	36
32	Decorin Reduces Intraocular Pressure and Retinal Ganglion Cell Loss in Rodents Through Fibrolysis of the Scarred Trabecular Meshwork. , 2015, 56, 3743.		36
33	Animal Models of Retinal Injury. , 2012, 53, 2913.		35
34	AMIGO3 Is an NgR1/p75 Co-Receptor Signalling Axon Growth Inhibition in the Acute Phase of Adult Central Nervous System Injury. PLoS ONE, 2013, 8, e61878.	1.1	35
35	Eye drop delivery of pigment epithelium-derived factor-34 promotes retinal ganglion cell neuroprotection and axon regeneration. Molecular and Cellular Neurosciences, 2015, 68, 212-221.	1.0	35
36	siRNA-Mediated Knockdown of the mTOR Inhibitor RTP801 Promotes Retinal Ganglion Cell Survival and Axon Elongation by Direct and Indirect Mechanisms. , 2016, 57, 429.		35

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37	A Novel Role for PECAM-1 (CD31) in Regulating Haematopoietic Progenitor Cell Compartmentalization between the Peripheral Blood and Bone Marrow. PLoS ONE, 2008, 3, e2338.	1.1	33
38	Neuroprotection in a Novel Mouse Model of Multiple Sclerosis. PLoS ONE, 2013, 8, e79188.	1.1	32
39	Epidermal growth factor receptor antagonists and CNS axon regeneration: Mechanisms and controversies. Brain Research Bulletin, 2011, 84, 289-299.	1.4	31
40	Activation of the BMP4/Smad1 Pathway Promotes Retinal Ganglion Cell Survival and Axon Regeneration. , 2019, 60, 1748.		30
41	Profiling RNA interference (RNAi)â€mediated toxicity in neural cultures for effective short interfering RNA design. Journal of Gene Medicine, 2009, 11, 523-534.	1.4	29
42	Decorin treatment of spinal cord injury. Neural Regeneration Research, 2014, 9, 1653.	1.6	28
43	Epidermal growth factor receptor inhibitors promote CNS axon growth through off-target effects on glia. Neurobiology of Disease, 2009, 36, 142-150.	2.1	26
44	Neuroretinal Cell Death in a Murine Model of Closed Globe Injury: Pathological and Functional Characterization. , 2012, 53, 7220.		26
45	Optimisation of siRNA-mediated RhoA silencing in neuronal cultures. Molecular and Cellular Neurosciences, 2009, 40, 451-462.	1.0	25
46	Caspase-2 Is Upregulated after Sciatic Nerve Transection and Its Inhibition Protects Dorsal Root Ganglion Neurons from Apoptosis after Serum Withdrawal. PLoS ONE, 2013, 8, e57861.	1.1	25
47	Penetration Enhancers for Topical Drug Delivery to the Ocular Posterior Segmentâ€”A Systematic Review. Pharmaceutics, 2021, 13, 276.	2.0	22
48	Long-term neuroprotection of retinal ganglion cells by inhibiting caspase-2. Cell Death Discovery, 2016, 2, 16044.	2.0	21
49	Non-viral-mediated suppression of AMIGO3 promotes disinhibited NT3-mediated regeneration of spinal cord dorsal column axons. Scientific Reports, 2018, 8, 10707.	1.6	21
50	Attenuating the DNA damage response to double-strand breaks restores function in models of CNS neurodegeneration. Brain Communications, 2019, 1, fcz005.	1.5	20
51	A Systematic Review of WNT Signaling in Endothelial Cell Oligodendrocyte Interactions: Potential Relevance to Cerebral Small Vessel Disease. Cells, 2020, 9, 1545.	1.8	20
52	TGF-Î²-induced IOP elevations are mediated by RhoA in the early but not the late fibrotic phase of open angle glaucoma. Molecular Vision, 2018, 24, 712-726.	1.1	20
53	Aquaporins and Their Regulation after Spinal Cord Injury. Cells, 2018, 7, 174.	1.8	19
54	LINGO-1 and AMIGO3, potential therapeutic targets for neurological and dysmyelinating disorders?. Neural Regeneration Research, 2017, 12, 1247.	1.6	19

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55	Retinal Ganglion Cells Die by Necroptotic Mechanisms in a Site-Specific Manner in a Rat Blunt Ocular Injury Model. Cells, 2019, 8, 1517.	1.8	18
56	Return of function after CNS axon regeneration: Lessons from injury-responsive intrinsically photosensitive and alpha retinal ganglion cells. Progress in Retinal and Eye Research, 2019, 71, 57-67.	7.3	18
57	Viral delivery of multiple miRNAs promotes retinal ganglion cell survival and functional preservation after optic nerve crush injury. Experimental Eye Research, 2020, 197, 108071.	1.2	17
58	Satellite glia not DRG neurons constitutively activate EGFR but EGFR inactivation is not correlated with axon regeneration. Neurobiology of Disease, 2010, 39, 292-300.	2.1	15
59	Citron kinase regulates axon growth through a pathway that converges on cofilin downstream of RhoA. Neurobiology of Disease, 2011, 41, 421-429.	2.1	15
60	Receptor Tyrosine Kinases: Molecular Switches Regulating CNS Axon Regeneration. Journal of Signal Transduction, 2012, 2012, 1-14.	2.0	15
61	Pigment epithelium-derived factor mediates retinal ganglion cell neuroprotection by suppression of caspase-2. Cell Death and Disease, 2019, 10, 102.	2.7	15
62	Caspase-2 Mediates Site-Specific Retinal Ganglion Cell Death After Blunt Ocular Injury. , 2018, 59, 4453.		14
63	Targeting adenoviral transgene expression to neurons. Molecular and Cellular Neurosciences, 2008, 39, 411-417.	1.0	11
64	Caspase-9 Mediates Photoreceptor Death After Blunt Ocular Trauma. , 2014, 55, 6350.		11
65	Pigment Epithelium-Derived Factor Promotes Axon Regeneration and Functional Recovery After Spinal Cord Injury. Molecular Neurobiology, 2019, 56, 7490-7507.	1.9	11
66	BMP4/Smad1 Signalling Promotes Spinal Dorsal Column Axon Regeneration and Functional Recovery After Injury. Molecular Neurobiology, 2019, 56, 6807-6819.	1.9	11
67	Assessment of necroptosis in the retina in a repeated primary ocular blast injury mouse model. Experimental Eye Research, 2020, 197, 108102.	1.2	11
68	Effects of intravitreal injection of siRNA against caspase-2 on retinal and optic nerve degeneration in air blast induced ocular trauma. Scientific Reports, 2021, 11, 16839.	1.6	11
69	Raman Spectroscopy as a Neuromonitoring Tool in Traumatic Brain Injury: A Systematic Review and Clinical Perspectives. Cells, 2022, 11, 1227.	1.8	10
70	Effects of siRNA-Mediated Knockdown of GSK3Î² on Retinal Ganglion Cell Survival and Neurite/Axon Growth. Cells, 2019, 8, 956.	1.8	9
71	Opicinumab: is it a potential treatment for multiple sclerosis?. Annals of Translational Medicine, 2020, 8, 892-892.	0.7	9
72	Structureâ€“Function Relationships in the Rodent Streptozotocin-Induced Model for Diabetic Retinopathy: A Systematic Review. Journal of Ocular Pharmacology and Therapeutics, 2022, 38, 271-286.	0.6	9

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73	<scp>NF</scp>â€<scp>Y</scp>â€dependent regulation of glutamate receptor 4 expression and cell survival in cells of the oligodendrocyte lineage. Glia, 2018, 66, 1896-1914.	2.5	8
74	Rapid assessment of ocular drug delivery in a novel ex vivo corneal model. Scientific Reports, 2020, 10, 11754.	1.6	8
75	Awareness of Gestational Diabetes and its Risk Factors among Pregnant Women in Samoa. Hawai'i Journal of Medicine & Public Health: A Journal of Asia Pacific Medicine & Public Health, 2017, 76, 48-54.	0.4	8
76	Photoâ€•and Electrochemical Dualâ€Responsive Iridium Probe for Saccharide Detection. Chemistry - A European Journal, 2022, 28, e202103541.	1.7	8
77	In vitro evaluation of a â€˜stealthâ€™ adenoviral vector for targeted gene delivery to adult mammalian neurones. Journal of Gene Medicine, 2009, 11, 335-344.	1.4	7
78	Decorin treatment for reversing trabecular meshwork fibrosis in open-angle glaucoma. Neural Regeneration Research, 2016, 11, 922.	1.6	7
79	Co-Expression Network Analysis of Micro-RNAs and Proteins in the Alzheimerâ€™s Brain: A Systematic Review of Studies in the Last 10 Years. Cells, 2021, 10, 3479.	1.8	7
80	Current Clinical Trials in Traumatic Brain Injury. Brain Sciences, 2022, 12, 527.	1.1	7
81	Interleukin-12 induces mild experimental allergic encephalomyelitis following local central nervous system injury in the Lewis rat. Journal of Neuroimmunology, 2003, 140, 109-117.	1.1	6
82	Efficacy of tracheal tube introducers and stylets for endotracheal intubation in the prehospital setting: a systematic review and meta-analysis. European Journal of Trauma and Emergency Surgery, 2022, 48, 1723-1735.	0.8	6
83	Clinicâ€ready inhibitor of MMPâ€9/â€12 restores sensory and functional decline in rodent models of spinal cord injury. Clinical and Translational Medicine, 2022, 12, e884.	1.7	6
84	Local injection of a hexametaphosphate formulation reduces heterotopic ossification in vivo. Materials Today Bio, 2020, 7, 100059.	2.6	5
85	Thermosensitive collagen/fibrinogen gels loaded with decorin suppress lesion site cavitation and promote functional recovery after spinal cord injury. Scientific Reports, 2021, 11, 18124.	1.6	5
86	Experimental Treatments for Oedema in Spinal Cord Injury: A Systematic Review and Meta-Analysis. Cells, 2021, 10, 2682.	1.8	5
87	Evidence for the use of spinal collars in stabilising spinal injuries in the pre-hospital setting in trauma patients: a systematic review. European Journal of Trauma and Emergency Surgery, 2022, 48, 647-657.	0.8	4
88	Retinal Ganglion Cell Survival and Axon Regeneration after Optic Nerve Transection is Driven by Cellular Intravitreal Sciatic Nerve Grafts. Cells, 2020, 9, 1335.	1.8	4
89	Safety and effectiveness of surgical fixation versus non-surgical methods for the treatment of flail chest in adult populations: a systematic review and meta-analysis. European Journal of Trauma and Emergency Surgery, 2022, 48, 1025-1034.	0.8	3
90	Overexpression of Reticulon 3 Enhances CNS Axon Regeneration and Functional Recovery after Traumatic Injury. Cells, 2021, 10, 2015.	1.8	3

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91	Co-Expression Network Analysis of MicroRNAs and Proteins in Severe Traumatic Brain Injury: A Systematic Review. Cells, 2021, 10, 2425.	1.8	3
92	Use of Haemostatic Devices for the Control of Junctional and Abdominal Traumatic Haemorrhage: A Systematic Review. Trauma Care, 2022, 2, 23-38.	0.4	2
93	The Role of Prehospital REBOA for Hemorrhage Control in Civilian and Military Austere Settings: A Systematic Review. Trauma Care, 2022, 2, 63-78.	0.4	2
94	Authors response to scientific correspondence. Neuropathology and Applied Neurobiology, 2012, 38, 381-381.	1.8	1
95	Pre-hospital administration of tranexamic acid in trauma patients: A systematic review and meta-analysis. Trauma, 2022, 24, 185-194.	0.2	1
96	Generation of Multipotential NG2 Progenitors From Mouse Embryonic Stem Cell-Derived Neural Stem Cells. Frontiers in Cell and Developmental Biology, 2021, 9, 688283.	1.8	1
97	Effects of Memantine in Patients with Traumatic Brain Injury: A Systematic Review. Trauma Care, 2021, 1, 1-14.	0.4	1
98	Anti-Angiogenic Properties of Vitreousâ˜†. , 2017, , .		1
99	Breastfeeding in Samoa: A Study to Explore Women's Knowledge and the Factors which Influence Infant Feeding Practices. Hawai'i Journal of Medicine & Public Health: A Journal of Asia Pacific Medicine & Public Health, 2017, 76, 15-22.	0.4	1
100	The Impact of a Cervical Collar on Intracranial Pressure in Traumatic Brain Injury Patients: A Systematic Review and Meta-Analysis. Trauma Care, 2022, 2, 1-10.	0.4	1
101	The Impact of Prehospital Spinal Immobilization in Patients with Penetrating Spinal Injuries: A Systematic Review and Meta-Analysis. Trauma Care, 2022, 2, 226-237.	0.4	1
102	A humble neuroanatomist: Martin Berry, PhD (1936â€“2021). European Journal of Neuroscience, 2022, 56, 3783-3785.	1.2	1
103	Inhibiting the DNA damage response pathway promotes functional recovery after spinal cord injury. Clinical and Translational Discovery, 2022, 2, .	0.2	1
104	Addendum: Thomas et al. Retinal Ganglion Cells Die by Necroptotic Mechanisms in a Site-Specific Manner in a Rat Blunt Ocular Injury Model. Cells 2019, 8, 1517. Cells, 2021, 10, 974.	1.8	0
105	Are Trauma Surgery Simulation Courses Beneficial in Low- and Middle-Income Countriesâ€”A Systematic Review and Meta-Analysis. Trauma Care, 2021, 1, 130-142.	0.4	0
106	Synovial Tissue from Sites of Joint Pain in Knee Osteoarthritis Patients Exhibits a Differential Phenotype with Distinct Fibroblast Subsets. SSRN Electronic Journal, 0, , .	0.4	0
107	Cannabinoids: Do they have the potential to treat the symptoms of multiple sclerosis?. World Journal of Neurology, 2013, 3, 87.	0.6	0
108	Ventilating the blast lung: Exploring ventilation strategies in primary blast lung injury. Trauma, 0, , 146040862210800.	0.2	0

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109	MMPâ€9 and â€12 inhibition in spinal cord injury restores function. Clinical and Translational Discovery, 2022, 2, .	0.2	0