

Armin Blesch

List of Publications by Year in descending order

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Version: 2024-02-01

100
papers

10,131
citations

44069

48
h-index

40979

93
g-index

103
all docs

103
docs citations

103
times ranked

10840
citing authors

#	ARTICLE	IF	CITATIONS
1	Neural Stem Cells: Promoting Axonal Regeneration and Spinal Cord Connectivity. <i>Cells</i> , 2021, 10, 3296.	4.1	28
2	Anisotropic Alginate Hydrogels Promote Axonal Growth across Chronic Spinal Cord Transections after Scar Removal. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 2274-2286.	5.2	21
3	Peptides and Astroglia Improve the Regenerative Capacity of Alginate Gels in the Injured Spinal Cord. <i>Tissue Engineering - Part A</i> , 2019, 25, 522-537.	3.1	19
4	Systemic epothilone D improves hindlimb function after spinal cord contusion injury in rats. <i>Experimental Neurology</i> , 2018, 306, 250-259.	4.1	41
5	Depolarization and electrical stimulation enhance in vitro and in vivo sensory axon growth after spinal cord injury. <i>Experimental Neurology</i> , 2018, 300, 247-258.	4.1	39
6	Sensorimotor Activity Partially Ameliorates Pain and Reduces Nociceptive Fiber Density in the Chronically Injured Spinal Cord. <i>Journal of Neurotrauma</i> , 2018, 35, 2222-2238.	3.4	30
7	Cortical electrical stimulation in female rats with a cervical spinal cord injury to promote axonal outgrowth. <i>Journal of Neuroscience Research</i> , 2018, 96, 852-862.	2.9	17
8	Targeted tissue engineering: hydrogels with linear capillary channels for axonal regeneration after spinal cord injury. <i>Neural Regeneration Research</i> , 2018, 13, 641.	3.0	7
9	Enhancing excitatory activity of somatosensory cortex alleviates neuropathic pain through regulating homeostatic plasticity. <i>Scientific Reports</i> , 2017, 7, 12743.	3.3	42
10	Regulated viral BDNF delivery in combination with Schwann cells promotes axonal regeneration through capillary alginate hydrogels after spinal cord injury. <i>Acta Biomaterialia</i> , 2017, 60, 167-180.	8.3	93
11	Neuropathic pain after spinal cord injury: the impact of sensorimotor activity. <i>Pain</i> , 2017, 158, 371-376.	4.2	30
12	Neuroregeneration. , 2017, , 585-619.		1
13	Early-onset treadmill training reduces mechanical allodynia and modulates calcitonin gene-related peptide fiber density in lamina III/IV in a mouse model of spinal cord contusion injury. <i>Pain</i> , 2016, 157, 687-697.	4.2	60
14	Limited Functional Effects of Subacute Syngeneic Bone Marrow Stromal Cell Transplantation after Rat Spinal Cord Contusion Injury. <i>Cell Transplantation</i> , 2016, 25, 125-139.	2.5	25
15	Human ESC-Derived Interneurons Improve Major Consequences of Spinal Cord Injury. <i>Cell Stem Cell</i> , 2016, 19, 423-424.	11.1	6
16	A Systems-Level Analysis of the Peripheral Nerve Intrinsic Axonal Growth Program. <i>Neuron</i> , 2016, 89, 956-970.	8.1	314
17	Gene Therapy for Spinal Cord Injury. , 2016, , 131-153.		0
18	Large animal and primate models of spinal cord injury for the testing of novel therapies. <i>Experimental Neurology</i> , 2015, 269, 154-168.	4.1	75

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19	Axonal Amphoterin mRNA Is Regulated by Translational Control and Enhances Axon Outgrowth. <i>Journal of Neuroscience</i> , 2015, 35, 5693-5706.	3.6	32
20	Systemic administration of epothilone B promotes axon regeneration after spinal cord injury. <i>Science</i> , 2015, 348, 347-352.	12.6	364
21	AngleJ: A new tool for the automated measurement of neurite growth orientation in tissue sections. <i>Journal of Neuroscience Methods</i> , 2015, 251, 143-150.	2.5	13
22	Cell-seeded alginate hydrogel scaffolds promote directed linear axonal regeneration in the injured rat spinal cord. <i>Acta Biomaterialia</i> , 2015, 27, 140-150.	8.3	113
23	Neural Stem Cell Dissemination after Grafting to CNS Injury Sites. <i>Cell</i> , 2014, 156, 388-389.	28.9	35
24	Neural stem cells in models of spinal cord injury. <i>Experimental Neurology</i> , 2014, 261, 494-500.	4.1	13
25	A Radio-telemetric System to Monitor Cardiovascular Function in Rats with Spinal Cord Transection and Embryonic Neural Stem Cell Grafts. <i>Journal of Visualized Experiments</i> , 2014, , e51914.	0.3	1
26	Thoracic Rat Spinal Cord Contusion Injury Induces Remote Spinal Gliogenesis but Not Neurogenesis or Gliogenesis in the Brain. <i>PLoS ONE</i> , 2014, 9, e102896.	2.5	17
27	Axonal transport of neural membrane protein 35 mRNA increases axon growth. <i>Journal of Cell Science</i> , 2013, 126, 90-102.	2.0	36
28	Bone morphogenetic proteins prevent bone marrow stromal cell-mediated oligodendroglial differentiation of transplanted adult neural progenitor cells in the injured spinal cord. <i>Stem Cell Research</i> , 2013, 11, 758-771.	0.7	18
29	Characterization of supraspinal vasomotor pathways and autonomic dysreflexia after spinal cord injury in F344 rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2013, 176, 54-63.	2.8	17
30	Demonstrating efficacy in preclinical studies of cellular therapies for spinal cord injury – How much is enough?. <i>Experimental Neurology</i> , 2013, 248, 30-44.	4.1	52
31	Long-Term Viral Brain-Derived Neurotrophic Factor Delivery Promotes Spasticity in Rats with a Cervical Spinal Cord Hemisection. <i>Frontiers in Neurology</i> , 2013, 4, 187.	2.4	52
32	Partial Restoration of Cardiovascular Function by Embryonic Neural Stem Cell Grafts after Complete Spinal Cord Transection. <i>Journal of Neuroscience</i> , 2013, 33, 17138-17149.	3.6	57
33	Axonal transcription factors signal retrogradely in lesioned peripheral nerve. <i>EMBO Journal</i> , 2012, 31, 1350-1363.	7.8	241
34	Motor Axonal Regeneration after Partial and Complete Spinal Cord Transection. <i>Journal of Neuroscience</i> , 2012, 32, 8208-8218.	3.6	122
35	Dependence of Regenerated Sensory Axons on Continuous Neurotrophin-3 Delivery. <i>Journal of Neuroscience</i> , 2012, 32, 13206-13220.	3.6	28
36	Gene therapy, neurotrophic factors and spinal cord regeneration. <i>Handbook of Clinical Neurology / Edited By P J Vinken and G W Bruyn</i> , 2012, 109, 563-574.	1.8	22

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37	Long-Distance Growth and Connectivity of Neural Stem Cells after Severe Spinal Cord Injury. <i>Cell</i> , 2012, 150, 1264-1273.	28.9	760
38	Intrahippocampal transplantation of mesenchymal stromal cells promotes neuroplasticity. <i>Cytherapy</i> , 2012, 14, 1041-1053.	0.7	28
39	Optimization of adult sensory neuron electroporation to study mechanisms of neurite growth. <i>Frontiers in Molecular Neuroscience</i> , 2012, 5, 11.	2.9	8
40	Neural stem cells for spinal cord repair. <i>Cell and Tissue Research</i> , 2012, 349, 349-362.	2.9	53
41	Neurotrophic factors in combinatorial approaches for spinal cord regeneration. <i>Cell and Tissue Research</i> , 2012, 349, 27-37.	2.9	82
42	Gene therapy approaches to enhancing plasticity and regeneration after spinal cord injury. <i>Experimental Neurology</i> , 2012, 235, 62-69.	4.1	41
43	Conditioning lesions before or after spinal cord injury recruit broad genetic mechanisms that sustain axonal regeneration: Superiority to camp-mediated effects. <i>Experimental Neurology</i> , 2012, 235, 162-173.	4.1	97
44	Delayed Dominant-Negative TNF Gene Therapy Halts Progressive Loss of Nigral Dopaminergic Neurons in a Rat Model of Parkinson's Disease. <i>Molecular Therapy</i> , 2011, 19, 46-52.	8.2	94
45	TNF: A Key Neuroinflammatory Mediator of Neurotoxicity and Neurodegeneration in Models of Parkinson's Disease. <i>Advances in Experimental Medicine and Biology</i> , 2011, 691, 539-540.	1.6	59
46	Promoting directional axon growth from neural progenitors grafted into the injured spinal cord. <i>Journal of Neuroscience Research</i> , 2010, 88, 1182-1192.	2.9	86
47	Regeneration of long-tract axons through sites of spinal cord injury using templated agarose scaffolds. <i>Biomaterials</i> , 2010, 31, 6719-6729.	11.4	162
48	Effects of cavernous nerve reconstruction on expression of nitric oxide synthase isoforms in rats. <i>BJU International</i> , 2010, 106, 1726-1731.	2.5	3
49	Local and Remote Growth Factor Effects after Primate Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2010, 30, 9728-9737.	3.6	130
50	Conserved 3'-Untranslated Region Sequences Direct Subcellular Localization of Chaperone Protein mRNAs in Neurons. <i>Journal of Biological Chemistry</i> , 2010, 285, 18025-18038.	3.4	50
51	Inhibition of soluble TNF signaling in a mouse model of Alzheimer's disease prevents pre-plaque amyloid-associated neuropathology. <i>Neurobiology of Disease</i> , 2009, 34, 163-177.	4.4	236
52	A novel inducible tyrosine kinase receptor to regulate signal transduction and neurite outgrowth. <i>Journal of Neuroscience Research</i> , 2009, 87, 2624-2631.	2.9	14
53	Neuroprotective effects of brain-derived neurotrophic factor in rodent and primate models of Alzheimer's disease. <i>Nature Medicine</i> , 2009, 15, 331-337.	30.7	880
54	Chemotropic guidance facilitates axonal regeneration and synapse formation after spinal cord injury. <i>Nature Neuroscience</i> , 2009, 12, 1106-1113.	14.8	194

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55	IGF-I gene delivery promotes corticospinal neuronal survival but not regeneration after adult CNS injury. <i>Experimental Neurology</i> , 2009, 215, 53-59.	4.1	102
56	Long-term reversal of cholinergic neuronal decline in aged non-human primates by lentiviral NGF gene delivery. <i>Experimental Neurology</i> , 2009, 215, 153-159.	4.1	67
57	Spinal cord injury: plasticity, regeneration and the challenge of translational drug development. <i>Trends in Neurosciences</i> , 2009, 32, 41-47.	8.6	251
58	Combined Intrinsic and Extrinsic Neuronal Mechanisms Facilitate Bridging Axonal Regeneration One Year after Spinal Cord Injury. <i>Neuron</i> , 2009, 64, 165-172.	8.1	197
59	Induction of corticospinal regeneration by lentiviral trkB-induced Erk activation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7215-7220.	7.1	124
60	GDNF-Transduced Schwann Cell Grafts Enhance Regeneration of Erectile Nerves. <i>European Urology</i> , 2008, 54, 1179-1187.	1.9	34
61	Intranigral Lentiviral Delivery of Dominant-negative TNF Attenuates Neurodegeneration and Behavioral Deficits in Hemiparkinsonian rats. <i>Molecular Therapy</i> , 2008, 16, 1572-1579.	8.2	106
62	NEUROTROPHIC FACTORS IN ALZHEIMER'S DISEASE. , 2008, , 201-221.		0
63	Brain-Derived Neurotrophic Factor Gene Transfer With Adeno-Associated Viral and Lentiviral Vectors Prevents Rubrospinal Neuronal Atrophy and Stimulates Regeneration-Associated Gene Expression After Acute Cervical Spinal Cord Injury. <i>Spine</i> , 2007, 32, 1164-1173.	2.0	73
64	Transient Growth Factor Delivery Sustains Regenerated Axons after Spinal Cord Injury. <i>Journal of Neuroscience</i> , 2007, 27, 10535-10545.	3.6	100
65	A Neurovascular Niche for Neurogenesis after Stroke. <i>Journal of Neuroscience</i> , 2006, 26, 13007-13016.	3.6	806
66	Neurotrophin-3 Gradients Established by Lentiviral Gene Delivery Promote Short-Distance Axonal Bridging beyond Cellular Grafts in the Injured Spinal Cord. <i>Journal of Neuroscience</i> , 2006, 26, 9713-9721.	3.6	167
67	Neurotrophin gene therapy for Alzheimer's disease. <i>Future Neurology</i> , 2006, 1, 179-187.	0.5	6
68	Neurotrophic Factors in Neurodegeneration. <i>Brain Pathology</i> , 2006, 16, 295-303.	4.1	49
69	Murine and HIV-Based Retroviral Vectors for In Vitro and In Vivo Gene Transfer. , 2006, 129, 241-254.		4
70	A phase 1 clinical trial of nerve growth factor gene therapy for Alzheimer disease. <i>Nature Medicine</i> , 2005, 11, 551-555.	30.7	979
71	Loss of gene expression in lentivirus- and retrovirus-transduced neural progenitor cells is correlated to migration and differentiation in the adult spinal cord. <i>Experimental Neurology</i> , 2005, 195, 127-139.	4.1	48
72	Regulated lentiviral NGF gene transfer controls rescue of medial septal cholinergic neurons. <i>Molecular Therapy</i> , 2005, 11, 916-925.	8.2	67

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73	Gene Therapy and Cell Transplantation for Alzheimer's Disease and Spinal Cord Injury. <i>Yonsei Medical Journal</i> , 2004, 45, S28.	2.2	35
74	Adult neural progenitor cells provide a permissive guiding substrate for corticospinal axon growth following spinal cord injury. <i>European Journal of Neuroscience</i> , 2004, 20, 1695-1704.	2.6	102
75	Nucleus hears axon's pain. <i>Nature Medicine</i> , 2004, 10, 236-237.	30.7	10
76	Induction of bone marrow stromal cells to neurons: Differentiation, transdifferentiation, or artifact?. <i>Journal of Neuroscience Research</i> , 2004, 77, 174-191.	2.9	403
77	Nerve growth factor: from animal models of cholinergic neuronal degeneration to gene therapy in Alzheimer's disease. <i>Progress in Brain Research</i> , 2004, 146, 439-449.	1.4	61
78	Lentiviral and MLV based retroviral vectors for ex vivo and in vivo gene transfer. <i>Methods</i> , 2004, 33, 164-172.	3.8	87
79	Axonal responses to cellularly delivered NT-4/5 after spinal cord injury. <i>Molecular and Cellular Neurosciences</i> , 2004, 27, 190-201.	2.2	65
80	Cellular GDNF delivery promotes growth of motor and dorsal column sensory axons after partial and complete spinal cord transections and induces remyelination. <i>Journal of Comparative Neurology</i> , 2003, 467, 403-417.	1.6	164
81	NT-3 gene delivery elicits growth of chronically injured corticospinal axons and modestly improves functional deficits after chronic scar resection. <i>Experimental Neurology</i> , 2003, 181, 47-56.	4.1	136
82	Therapeutic potential of nervous system growth factors for neurodegenerative disease. <i>Expert Review of Neurotherapeutics</i> , 2002, 2, 89-96.	2.8	9
83	Perspektiven für regenerative Strategien nach Querschnittsverletzung. <i>Aktuelle Neurologie</i> , 2002, 29, 223-228.	0.1	0
84	Chapter 31 Spontaneous and neurotrophin-induced axonal plasticity after spinal cord injury. <i>Progress in Brain Research</i> , 2002, 137, 415-423.	1.4	28
85	New strategies in neural repair. <i>Progress in Brain Research</i> , 2002, 138, 401-409.	1.4	12
86	Neurotrophic factors, gene therapy, and neural stem cells for spinal cord repair. <i>Brain Research Bulletin</i> , 2002, 57, 833-838.	3.0	162
87	Spontaneous and augmented growth of axons in the primate spinal cord: Effects of local injury and nerve growth factor-secreting cell grafts. <i>Journal of Comparative Neurology</i> , 2002, 449, 88-101.	1.6	86
88	Nerve growth factor gene therapy for Alzheimer's disease. <i>Journal of Molecular Neuroscience</i> , 2002, 19, 207-207.	2.3	15
89	Cloning and Characterization of the Expression Pattern of a Novel Splice Product MIA (Splice) of Malignant Melanoma-derived Growth-inhibiting Activity (MIAY CD-RAP). <i>Journal of Investigative Dermatology</i> , 2002, 119, 562-569.	0.7	9
90	Melanoma-inhibiting activity (MIA/CD-RAP) is expressed in a variety of malignant tumors of mainly neuroectodermal origin. <i>Anticancer Research</i> , 2002, 22, 577-83.	1.1	5

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91	GDNF gene delivery to injured adult CNS motor neurons promotes axonal growth, expression of the trophic neuropeptide CGRP, and cellular protection. <i>Journal of Comparative Neurology</i> , 2001, 436, 399-410.	1.6	99
92	Neurotrophism without neurotropism: BDNF promotes survival but not growth of lesioned corticospinal neurons. <i>Journal of Comparative Neurology</i> , 2001, 436, 456-470.	1.6	146
93	Neurite outgrowth can be modulated in vitro using a tetracycline-repressible gene therapy vector expressing human nerve growth factor. <i>Journal of Neuroscience Research</i> , 2000, 59, 402-409.	2.9	36
94	Neurotrophic Factors and Gene Therapy in Spinal Cord Injury. <i>Topics in Spinal Cord Injury Rehabilitation</i> , 2000, 6, 42-51.	1.8	0
95	Spinal Cord Regeneration. , 1999, , 605-629.		6
96	Chapter 32 Neurotrophin gene therapy in CNS models of trauma and degeneration. <i>Progress in Brain Research</i> , 1998, 117, 473-484.	1.4	51
97	Functional Characterization of Ngf-Secreting Cell Grafts to the Acutely Injured Spinal Cord. <i>Cell Transplantation</i> , 1997, 6, 361-368.	2.5	71
98	Transforming growth factor- β -mediated autocrine growth regulation of gliomas as detected with phosphorothioate antisense oligonucleotides. , 1996, 65, 332-337.		79
99	Transforming growth factor- β -mediated autocrine growth regulation of gliomas as detected with phosphorothioate antisense oligonucleotides. , 1996, 65, 332.		1
100	Transforming Growth Factor- β -Mediated Regulation of Human Peripheral Blood Mononuclear Cell Proliferation as Detected with Phosphorothioate Antisense Oligodeoxynucleotides. <i>Cellular Immunology</i> , 1995, 165, 125-133.	3.0	11