

# Karim Fouad

## List of Publications by Year in descending order

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102  
papers

7,464  
citations

50170

46  
h-index

54797

84  
g-index

107  
all docs

107  
docs citations

107  
times ranked

5965  
citing authors

#	ARTICLE	IF	CITATIONS
1	Combining Schwann Cell Bridges and Olfactory-Ensheathing Glia Grafts with Chondroitinase Promotes Locomotor Recovery after Complete Transection of the Spinal Cord. <i>Journal of Neuroscience</i> , 2005, 25, 1169-1178.	1.7	435
2	Recovery of motoneuron and locomotor function after spinal cord injury depends on constitutive activity in 5-HT <sub>2C</sub> receptors. <i>Nature Medicine</i> , 2010, 16, 694-700.	15.2	353
3	Nogo-A antibody improves regeneration and locomotion of spinal cord-injured rats. <i>Annals of Neurology</i> , 2005, 58, 706-719.	2.8	307
4	Locomotor Recovery in Spinal Cord-Injured Rats Treated with an Antibody Neutralizing the Myelin-Associated Neurite Growth Inhibitor Nogo-A. <i>Journal of Neuroscience</i> , 2001, 21, 3665-3673.	1.7	302
5	Efficient testing of motor function in spinal cord injured rats. <i>Brain Research</i> , 2000, 883, 165-177.	1.1	275
6	Spontaneous locomotor recovery in spinal cord injured rats is accompanied by anatomical plasticity of reticulospinal fibers. <i>European Journal of Neuroscience</i> , 2006, 23, 1988-1996.	1.2	237
7	Cervical sprouting of corticospinal fibers after thoracic spinal cord injury accompanies shifts in evoked motor responses. <i>Current Biology</i> , 2001, 11, 1766-1770.	1.8	227
8	Reaching training in rats with spinal cord injury promotes plasticity and task specific recovery. <i>Brain</i> , 2007, 130, 2993-3003.	3.7	223
9	Restoration of sensorimotor functions after spinal cord injury. <i>Brain</i> , 2014, 137, 654-667.	3.7	218
10	Neuronal coordination of arm and leg movements during human locomotion. <i>European Journal of Neuroscience</i> , 2001, 14, 1906-1914.	1.2	210
11	BDNF promotes connections of corticospinal neurons onto spared descending interneurons in spinal cord injured rats. <i>Brain</i> , 2006, 129, 1534-1545.	3.7	210
12	Reorganization of descending motor tracts in the rat spinal cord. <i>European Journal of Neuroscience</i> , 2002, 16, 1761-1771.	1.2	172
13	Functional switch between motor tracts in the presence of the mAb IN-1 in the adult rat. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 6929-6934.	3.3	145
14	Ganglioside GM1 induces phosphorylation of mutant huntingtin and restores normal motor behavior in Huntington disease mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3528-3533.	3.3	140
15	Electrical stimulation of intact peripheral sensory axons in rats promotes outgrowth of their central projections. <i>Experimental Neurology</i> , 2008, 210, 238-247.	2.0	136
16	Pericytes impair capillary blood flow and motor function after chronic spinal cord injury. <i>Nature Medicine</i> , 2017, 23, 733-741.	15.2	134
17	BDNF: The career of a multifaceted neurotrophin in spinal cord injury. <i>Experimental Neurology</i> , 2012, 238, 254-264.	2.0	132
18	Red nucleus projections to distinct motor neuron pools in the rat spinal cord. <i>Journal of Comparative Neurology</i> , 2002, 448, 349-359.	0.9	126

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19	Regenerating corticospinal fibers in the Marmoset ( <i>Callitrix jacchus</i> ) after spinal cord lesion and treatment with the anti-Nogo-A antibody IN-1. <i>European Journal of Neuroscience</i> , 2004, 20, 2479-2482.	1.2	125
20	Enhancement and Resetting of Locomotor Activity by Muscle Afferents. <i>Annals of the New York Academy of Sciences</i> , 1998, 860, 203-215.	1.8	124
21	Motor Axonal Regeneration after Partial and Complete Spinal Cord Transection. <i>Journal of Neuroscience</i> , 2012, 32, 8208-8218.	1.7	122
22	Plasticity After Spinal Cord Injury: Relevance to Recovery and Approaches to Facilitate It. <i>Neurotherapeutics</i> , 2011, 8, 283-293.	2.1	118
23	Treadmill training in incomplete spinal cord injured rats. <i>Behavioural Brain Research</i> , 2000, 115, 107-113.	1.2	117
24	Restoring walking after spinal cord injury. <i>Progress in Neurobiology</i> , 2004, 73, 107-126.	2.8	115
25	Rehabilitative training and plasticity following spinal cord injury. <i>Experimental Neurology</i> , 2012, 235, 91-99.	2.0	113
26	A Systematic Review of Directly Applied Biologic Therapies for Acute Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2011, 28, 1589-1610.	1.7	104
27	Compensatory Sprouting and Impulse Rerouting after Unilateral Pyramidal Tract Lesion in Neonatal Rats. <i>Journal of Neuroscience</i> , 2000, 20, 6561-6569.	1.7	97
28	Improving axonal growth and functional recovery after experimental spinal cord injury by neutralizing myelin associated inhibitors. <i>Brain Research Reviews</i> , 2001, 36, 204-212.	9.1	96
29	The unilateral 6-OHDA rat model of Parkinson's disease revisited: an electromyographic and behavioural analysis. <i>European Journal of Neuroscience</i> , 2005, 22, 735-744.	1.2	92
30	Behavioral and Electromyographic Characterization of Mice Lacking EphA4 Receptors. <i>Journal of Neurophysiology</i> , 2006, 96, 642-651.	0.9	86
31	The neuroanatomical "functional paradox in spinal cord injury. <i>Nature Reviews Neurology</i> , 2021, 17, 53-62.	4.9	82
32	Training of Walking Skills Overground and on the Treadmill: Case Series on Individuals With Incomplete Spinal Cord Injury. <i>Physical Therapy</i> , 2009, 89, 601-611.	1.1	81
33	Fecal transplant prevents gut dysbiosis and anxiety-like behaviour after spinal cord injury in rats. <i>PLoS ONE</i> , 2020, 15, e0226128.	1.1	77
34	The role of cAMP and its downstream targets in neurite growth in the adult nervous system. <i>Neuroscience Letters</i> , 2017, 652, 56-63.	1.0	75
35	Eliciting inflammation enables successful rehabilitative training in chronic spinal cord injury. <i>Brain</i> , 2018, 141, 1946-1962.	3.7	74
36	Object recognition memory in zebrafish. <i>Behavioural Brain Research</i> , 2016, 296, 199-210.	1.2	72

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37	Neuronal Populations Capable of Regeneration following a Combined Treatment in Rats with Spinal Cord Transection. <i>Journal of Neurotrauma</i> , 2007, 24, 1667-1673.	1.7	69
38	Adaptive changes in the injured spinal cord and their role in promoting functional recovery. <i>Neurological Research</i> , 2008, 30, 17-27.	0.6	65
39	Training-induced plasticity in rats with cervical spinal cord injury: Effects and side effects. <i>Behavioural Brain Research</i> , 2010, 214, 323-331.	1.2	64
40	Spinal cord injury and plasticity: Opportunities and challenges. <i>Brain Research Bulletin</i> , 2011, 84, 337-342.	1.4	60
41	Advantages of delaying the onset of rehabilitative reaching training in rats with incomplete spinal cord injury. <i>European Journal of Neuroscience</i> , 2009, 29, 641-651.	1.2	55
42	Transplantation and repair: Combined cell implantation and chondroitinase delivery prevents deterioration of bladder function in rats with complete spinal cord injury. <i>Spinal Cord</i> , 2009, 47, 727-732.	0.9	52
43	Synergistic effects of BDNF and rehabilitative training on recovery after cervical spinal cord injury. <i>Behavioural Brain Research</i> , 2013, 239, 31-42.	1.2	52
44	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.	1.1	52
45	Plasticity beyond peri-infarct cortex: Spinal up regulation of structural plasticity, neurotrophins, and inflammatory cytokines during recovery from cortical stroke. <i>Experimental Neurology</i> , 2014, 252, 47-56.	2.0	51
46	Disease-modifying effects of ganglioside GM1 in Huntington's disease models. <i>EMBO Molecular Medicine</i> , 2017, 9, 1537-1557.	3.3	51
47	Anatomical correlates of recovery in single pellet reaching in spinal cord injured rats. <i>Experimental Neurology</i> , 2013, 247, 605-614.	2.0	50
48	Developing a data sharing community for spinal cord injury research. <i>Experimental Neurology</i> , 2017, 295, 135-143.	2.0	48
49	Task specific adaptations in rat locomotion: Runway versus horizontal ladder. <i>Behavioural Brain Research</i> , 2006, 168, 272-279.	1.2	45
50	Functional testing in animal models of spinal cord injury: not as straight forward as one would think. <i>Frontiers in Integrative Neuroscience</i> , 2013, 7, 85.	1.0	45
51	Electromyographic activity associated with spontaneous functional recovery after spinal cord injury in rats. <i>European Journal of Neuroscience</i> , 2002, 16, 249-258.	1.2	44
52	Locomotor-related V3 interneurons initiate and coordinate muscles spasms after spinal cord injury. <i>Journal of Neurophysiology</i> , 2019, 121, 1352-1367.	0.9	41
53	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.	2.0	39
54	Electrical Stimulation as a Tool to Promote Plasticity of the Injured Spinal Cord. <i>Journal of Neurotrauma</i> , 2020, 37, 1933-1953.	1.7	37

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55	Rehabilitative Training in Animal Models of Spinal Cord Injury. <i>Journal of Neurotrauma</i> , 2018, 35, 1970-1985.	1.7	36
56	Adaptations in the Walking Pattern of Spinal Cord Injured Rats. <i>Journal of Neurotrauma</i> , 2006, 23, 897-907.	1.7	35
57	Effects of extensor muscle afferents on the timing of locomotor activity during walking in adult rats. <i>Brain Research</i> , 1997, 749, 320-328.	1.1	34
58	Enhancing Spinal Plasticity Amplifies the Benefits of Rehabilitative Training and Improves Recovery from Stroke. <i>Journal of Neuroscience</i> , 2017, 37, 10983-10997.	1.7	33
59	Following Spinal Cord Injury Transected Reticulospinal Tract Axons Develop New Collateral Inputs to Spinal Interneurons in Parallel with Locomotor Recovery. <i>Neural Plasticity</i> , 2017, 2017, 1-15.	1.0	33
60	Extrasynaptic $\text{I}^{\pm}_{\text{5}}\text{GABA}_{\text{A}}$ receptors on proprioceptive afferents produce a tonic depolarization that modulates sodium channel function in the rat spinal cord. <i>Journal of Neurophysiology</i> , 2018, 120, 2953-2974.	0.9	32
61	Beyond the lesion site: minocycline augments inflammation and anxiety-like behavior following SCI in rats through action on the gut microbiota. <i>Journal of Neuroinflammation</i> , 2021, 18, 144.	3.1	28
62	Secondary Damage in the Spinal Cord after Motor Cortex Injury in Rats. <i>Journal of Neurotrauma</i> , 2010, 27, 1387-1397.	1.7	27
63	Synthesis, transport, and metabolism of serotonin formed from exogenously applied 5-HTP after spinal cord injury in rats. <i>Journal of Neurophysiology</i> , 2014, 111, 145-163.	0.9	27
64	Decrease of mRNA Editing after Spinal Cord Injury is Caused by Down-regulation of ADAR2 that is Triggered by Inflammatory Response. <i>Scientific Reports</i> , 2015, 5, 12615.	1.6	27
65	FAIR SCI Ahead: The Evolution of the Open Data Commons for Pre-Clinical Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2020, 37, 831-838.	1.7	27
66	Improved single pellet grasping using automated ad libitum full-time training robot. <i>Behavioural Brain Research</i> , 2015, 281, 137-148.	1.2	26
67	Vector-induced NT-3 expression in rats promotes collateral growth of injured corticospinal tract axons far rostral to a spinal cord injury. <i>Neuroscience</i> , 2014, 272, 65-75.	1.1	25
68	Single pellet grasping following cervical spinal cord injury in adult rat using an automated full-time training robot. <i>Behavioural Brain Research</i> , 2016, 299, 59-71.	1.2	22
69	A motorized pellet dispenser to deliver high intensity training of the single pellet reaching and grasping task in rats. <i>Behavioural Brain Research</i> , 2018, 336, 67-76.	1.2	22
70	Single-session cortical electrical stimulation enhances the efficacy of rehabilitative motor training after spinal cord injury in rats. <i>Experimental Neurology</i> , 2020, 324, 113136.	2.0	21
71	Self-directed rehabilitation training intensity thresholds for efficient recovery of skilled forelimb function in rats with cervical spinal cord injury. <i>Experimental Neurology</i> , 2021, 339, 113543.	2.0	21
72	Reticulospinal plasticity after cervical spinal cord injury in the rat involves withdrawal of projections below the injury. <i>Experimental Neurology</i> , 2013, 247, 241-249.	2.0	20

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73	Inhibiting cortical protein kinase A in spinal cord injured rats enhances efficacy of rehabilitative training. <i>Experimental Neurology</i> , 2016, 283, 365-374.	2.0	20
74	5-HT <sub>1D</sub> receptors inhibit the monosynaptic stretch reflex by modulating C-fiber activity. <i>Journal of Neurophysiology</i> , 2019, 121, 1591-1608.	0.9	19
75	FGF-2-induced functional improvement from neonatal motor cortex injury via corticospinal projections. <i>Experimental Brain Research</i> , 2008, 185, 453-460.	0.7	18
76	A TrkB Antibody Agonist Promotes Plasticity after Cervical Spinal Cord Injury in Adult Rats. <i>Journal of Neurotrauma</i> , 2021, 38, 1338-1348.	1.7	18
77	Dose and Chemical Modification Considerations for Continuous Cyclic AMP Analog Delivery to the Injured CNS. <i>Journal of Neurotrauma</i> , 2009, 26, 733-740.	1.7	17
78	Comment on "Restoring Voluntary Control of Locomotion After Paralyzing Spinal Cord Injury". <i>Science</i> , 2012, 338, 328-328.	6.0	17
79	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.	1.3	17
80	New Mechanistic Insights, Novel Treatment Paradigms, and Clinical Progress in Cerebrovascular Diseases. <i>Frontiers in Aging Neuroscience</i> , 2021, 13, 623751.	1.7	17
81	Challenges of animal models in SCI research: Effects of pre-injury task-specific training in adult rats before lesion. <i>Behavioural Brain Research</i> , 2015, 291, 26-35.	1.2	14
82	Training following unilateral cervical spinal cord injury in rats affects the contralesional forelimb. <i>Neuroscience Letters</i> , 2013, 539, 77-81.	1.0	13
83	Larger cortical motor maps after seizures. <i>European Journal of Neuroscience</i> , 2011, 34, 615-621.	1.2	11
84	Response to Comment on "Restoring Voluntary Control of Locomotion After Paralyzing Spinal Cord Injury". <i>Science</i> , 2012, 338, 328-328.	6.0	11
85	Be careful what you train for. <i>Nature Neuroscience</i> , 2009, 12, 1077-1079.	7.1	10
86	Loss of Npn1 from motor neurons causes postnatal deficits independent from Sema3A signaling. <i>Developmental Biology</i> , 2015, 399, 2-14.	0.9	10
87	Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 034101.	1.7	10
88	Promoting FAIR Data Through Community-driven Agile Design: the Open Data Commons for Spinal Cord Injury (odc-sci.org). <i>Neuroinformatics</i> , 2022, 20, 203-219.	1.5	10
89	Inducing inflammation following subacute spinal cord injury in female rats: A double-edged sword to promote motor recovery. <i>Brain, Behavior, and Immunity</i> , 2021, 93, 55-65.	2.0	9
90	Automation of training and testing motor and related tasks in pre-clinical behavioural and rehabilitative neuroscience. <i>Experimental Neurology</i> , 2021, 340, 113647.	2.0	8

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91	Decerebration by global ischemic stroke in rats. <i>Journal of Neuroscience Methods</i> , 1998, 84, 131-137.	1.3	7
92	New technique for drug application to the spinal cord of walking mice. <i>Journal of Neuroscience Methods</i> , 2008, 171, 39-47.	1.3	6
93	A Simple Analogy for Nervous System Plasticity After Injury. <i>Exercise and Sport Sciences Reviews</i> , 2015, 43, 100-106.	1.6	6
94	A Critical Period for Postnatal Adaptive Plasticity in a Model of Motor Axon Miswiring. <i>PLoS ONE</i> , 2015, 10, e0123643.	1.1	6
95	What Makes a Successful Donor? Fecal Transplant from Anxious-Like Rats Does Not Prevent Spinal Cord Injury-Induced Dysbiosis. <i>Biology</i> , 2021, 10, 254.	1.3	5
96	Cyclosporine-immunosuppression does not affect survival of transplanted skin-derived precursor Schwann cells in the injured rat spinal cord. <i>Neuroscience Letters</i> , 2017, 658, 67-72.	1.0	4
97	Metabolomic Fingerprint of Behavioral Changes in Response to Full-Spectrum Cannabis Extracts. <i>Frontiers in Pharmacology</i> , 2022, 13, 831052.	1.6	2
98	Rehabilitative training improves skilled forelimb motor function after cervical unilateral contusion spinal cord injury in rats. <i>Behavioural Brain Research</i> , 2022, 422, 113731.	1.2	2
99	Lipopolysaccharide can induce errors in anatomical measures of neuronal plasticity by increasing tracing efficacy. <i>Neuroscience Letters</i> , 2013, 556, 181-185.	1.0	1
100	Repairing the injured spinal cord: sprouting versus regeneration. Is this a realistic match?. <i>Neural Regeneration Research</i> , 2014, 9, 462.	1.6	1
101	Myelin-associated axon growth inhibitors. , 0, , 339-348.		0
102	Reply to Comment on "Adult skin-derived precursor Schwann cell grafts form growths in the injured spinal cord of Fischer rats"™. <i>Biomedical Materials (Bristol)</i> , 2018, 13, 048002.	1.7	0