

Gregoire Courtine

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.

129
papers

9,761
citations

51
h-index

98
g-index

142
ext. papers

12,577
ext. citations

15.3
avg, IF

6.1
L-index

| # | Paper | IF | Citations |
|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 129 | Biomaterials. Electronic dura mater for long-term multimodal neural interfaces. <i>Science</i> , 2015 , 347, 159-63 | 63.3 | 640 |
| 128 | Recovery of supraspinal control of stepping via indirect propriospinal relay connections after spinal cord injury. <i>Nature Medicine</i> , 2008 , 14, 69-74 | 50.5 | 542 |
| 127 | Restoring voluntary control of locomotion after paralyzing spinal cord injury. <i>Science</i> , 2012 , 336, 1182-5 | 33.3 | 536 |
| 126 | Transformation of nonfunctional spinal circuits into functional states after the loss of brain input. <i>Nature Neuroscience</i> , 2009 , 12, 1333-42 | 25.5 | 508 |
| 125 | Targeted neurotechnology restores walking in humans with spinal cord injury. <i>Nature</i> , 2018 , 563, 65-71 | 50.4 | 386 |
| 124 | A brain-spine interface alleviating gait deficits after spinal cord injury in primates. <i>Nature</i> , 2016 , 539, 284-288 | 50.4 | 328 |
| 123 | Can experiments in nonhuman primates expedite the translation of treatments for spinal cord injury in humans?. <i>Nature Medicine</i> , 2007 , 13, 561-6 | 50.5 | 322 |
| 122 | Materials and technologies for soft implantable neuroprostheses. <i>Nature Reviews Materials</i> , 2016 , 1, | 73.3 | 308 |
| 121 | Extensive spontaneous plasticity of corticospinal projections after primate spinal cord injury. <i>Nature Neuroscience</i> , 2010 , 13, 1505-10 | 25.5 | 283 |
| 120 | Training locomotor networks. <i>Brain Research Reviews</i> , 2008 , 57, 241-54 | | 229 |
| 119 | Human walking along a curved path. I. Body trajectory, segment orientation and the effect of vision. <i>European Journal of Neuroscience</i> , 2003 , 18, 177-90 | 3.5 | 198 |
| 118 | A computational model for epidural electrical stimulation of spinal sensorimotor circuits. <i>Journal of Neuroscience</i> , 2013 , 33, 19326-40 | 6.6 | 193 |
| 117 | Required growth facilitators propel axon regeneration across complete spinal cord injury. <i>Nature</i> , 2018 , 561, 396-400 | 50.4 | 184 |
| 116 | Spatiotemporal neuromodulation therapies engaging muscle synergies improve motor control after spinal cord injury. <i>Nature Medicine</i> , 2016 , 22, 138-45 | 50.5 | 177 |
| 115 | Muscle spindle feedback directs locomotor recovery and circuit reorganization after spinal cord injury. <i>Cell</i> , 2014 , 159, 1626-39 | 56.2 | 175 |
| 114 | Spinal cord repair: advances in biology and technology. <i>Nature Medicine</i> , 2019 , 25, 898-908 | 50.5 | 161 |
| 113 | Plasticity of spinal cord reflexes after a complete transection in adult rats: relationship to stepping ability. <i>Journal of Neurophysiology</i> , 2006 , 96, 1699-710 | 3.2 | 147 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----|
| 112 | Wireless neurosensor for full-spectrum electrophysiology recordings during free behavior. <i>Neuron</i> , 2014 , 84, 1170-82 | 13.9 | 143 |
| 111 | Electrical spinal cord stimulation must preserve proprioception to enable locomotion in humans with spinal cord injury. <i>Nature Neuroscience</i> , 2018 , 21, 1728-1741 | 25.5 | 138 |
| 110 | Step training reinforces specific spinal locomotor circuitry in adult spinal rats. <i>Journal of Neuroscience</i> , 2008 , 28, 7370-5 | 6.6 | 137 |
| 109 | Human walking along a curved path. II. Gait features and EMG patterns. <i>European Journal of Neuroscience</i> , 2003 , 18, 191-205 | 3.5 | 134 |
| 108 | Cortico-reticulo-spinal circuit reorganization enables functional recovery after severe spinal cord contusion. <i>Nature Neuroscience</i> , 2018 , 21, 576-588 | 25.5 | 130 |
| 107 | Differential effects of anti-Nogo-A antibody treatment and treadmill training in rats with incomplete spinal cord injury. <i>Brain</i> , 2009 , 132, 1426-40 | 11.2 | 128 |
| 106 | Closed-loop neuromodulation of spinal sensorimotor circuits controls refined locomotion after complete spinal cord injury. <i>Science Translational Medicine</i> , 2014 , 6, 255ra133 | 17.5 | 125 |
| 105 | Tuning of a basic coordination pattern constructs straight-ahead and curved walking in humans. <i>Journal of Neurophysiology</i> , 2004 , 91, 1524-35 | 3.2 | 122 |
| 104 | Epidural stimulation induced modulation of spinal locomotor networks in adult spinal rats. <i>Journal of Neuroscience</i> , 2008 , 28, 6022-9 | 6.6 | 111 |
| 103 | Kinematic and EMG determinants in quadrupedal locomotion of a non-human primate (Rhesus). <i>Journal of Neurophysiology</i> , 2005 , 93, 3127-45 | 3.2 | 111 |
| 102 | Personalized neuroprosthetics. <i>Science Translational Medicine</i> , 2013 , 5, 210rv2 | 17.5 | 110 |
| 101 | Facilitation of stepping with epidural stimulation in spinal rats: role of sensory input. <i>Journal of Neuroscience</i> , 2008 , 28, 7774-80 | 6.6 | 108 |
| 100 | Epidural spinal cord stimulation plus quipazine administration enable stepping in complete spinal adult rats. <i>Journal of Neurophysiology</i> , 2007 , 98, 2525-36 | 3.2 | 108 |
| 99 | Controlling specific locomotor behaviors through multidimensional monoaminergic modulation of spinal circuitries. <i>Journal of Neuroscience</i> , 2011 , 31, 9264-78 | 6.6 | 105 |
| 98 | Performance of locomotion and foot grasping following a unilateral thoracic corticospinal tract lesion in monkeys (<i>Macaca mulatta</i>). <i>Brain</i> , 2005 , 128, 2338-58 | 11.2 | 102 |
| 97 | Neck muscle vibration and spatial orientation during stepping in place in humans. <i>Journal of Neurophysiology</i> , 2002 , 88, 2232-41 | 3.2 | 102 |
| 96 | Spinal cord reflexes induced by epidural spinal cord stimulation in normal awake rats. <i>Journal of Neuroscience Methods</i> , 2006 , 157, 253-63 | 3 | 101 |
| 95 | Pronounced species divergence in corticospinal tract reorganization and functional recovery after lateralized spinal cord injury favors primates. <i>Science Translational Medicine</i> , 2015 , 7, 302ra134 | 17.5 | 99 |

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|----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 94 | Mechanisms Underlying the Neuromodulation of Spinal Circuits for Correcting Gait and Balance Deficits after Spinal Cord Injury. <i>Neuron</i> , 2016 , 89, 814-28 | 13.9 | 92 |
| 93 | Long-term usability and bio-integration of polyimide-based intra-neural stimulating electrodes. <i>Biomaterials</i> , 2017 , 122, 114-129 | 15.6 | 91 |
| 92 | Modulation of multisegmental monosynaptic responses in a variety of leg muscles during walking and running in humans. <i>Journal of Physiology</i> , 2007 , 582, 1125-39 | 3.9 | 86 |
| 91 | Versatile robotic interface to evaluate, enable and train locomotion and balance after neuromotor disorders. <i>Nature Medicine</i> , 2012 , 18, 1142-7 | 50.5 | 82 |
| 90 | Undirected compensatory plasticity contributes to neuronal dysfunction after severe spinal cord injury. <i>Brain</i> , 2013 , 136, 3347-61 | 11.2 | 76 |
| 89 | Stance- and locomotion-dependent processing of vibration-induced proprioceptive inflow from multiple muscles in humans. <i>Journal of Neurophysiology</i> , 2007 , 97, 772-9 | 3.2 | 71 |
| 88 | Coordinated modulation of locomotor muscle synergies constructs straight-ahead and curvilinear walking in humans. <i>Experimental Brain Research</i> , 2006 , 170, 320-35 | 2.3 | 66 |
| 87 | Lack of additive role of ageing in nigrostriatal neurodegeneration triggered by β synuclein overexpression. <i>Acta Neuropathologica Communications</i> , 2015 , 3, 46 | 7.3 | 65 |
| 86 | Animal models of neurologic disorders: a nonhuman primate model of spinal cord injury. <i>Neurotherapeutics</i> , 2012 , 9, 380-92 | 6.4 | 65 |
| 85 | Brain-controlled modulation of spinal circuits improves recovery from spinal cord injury. <i>Nature Communications</i> , 2018 , 9, 3015 | 17.4 | 61 |
| 84 | Development of a database for translational spinal cord injury research. <i>Journal of Neurotrauma</i> , 2014 , 31, 1789-99 | 5.4 | 59 |
| 83 | Biodegradable scaffolds promote tissue remodeling and functional improvement in non-human primates with acute spinal cord injury. <i>Biomaterials</i> , 2017 , 123, 63-76 | 15.6 | 58 |
| 82 | Plasticity of functional connectivity in the adult spinal cord. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006 , 361, 1635-46 | 5.8 | 58 |
| 81 | Somatosensory control of balance during locomotion in decerebrated cat. <i>Journal of Neurophysiology</i> , 2012 , 107, 2072-82 | 3.2 | 56 |
| 80 | Recovery of control of posture and locomotion after a spinal cord injury: solutions staring us in the face. <i>Progress in Brain Research</i> , 2009 , 175, 393-418 | 2.9 | 54 |
| 79 | Phase-dependent modulation of percutaneously elicited multisegmental muscle responses after spinal cord injury. <i>Journal of Neurophysiology</i> , 2010 , 103, 2808-20 | 3.2 | 54 |
| 78 | Gait-dependent motor memory facilitation in covert movement execution. <i>Cognitive Brain Research</i> , 2004 , 22, 67-75 | | 50 |
| 77 | Continuous, bilateral Achilles' tendon vibration is not detrimental to human walk. <i>Brain Research Bulletin</i> , 2001 , 55, 107-15 | 3.9 | 50 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------|----|
| 76 | Configuration of electrical spinal cord stimulation through real-time processing of gait kinematics. <i>Nature Protocols</i> , 2018 , 13, 2031-2061 | 18.8 | 50 |
| 75 | Multi-system neurorehabilitative strategies to restore motor functions following severe spinal cord injury. <i>Experimental Neurology</i> , 2012 , 235, 100-9 | 5.7 | 49 |
| 74 | Cbp-dependent histone acetylation mediates axon regeneration induced by environmental enrichment in rodent spinal cord injury models. <i>Science Translational Medicine</i> , 2019 , 11, | 17.5 | 39 |
| 73 | Soft, Implantable Bioelectronic Interfaces for Translational Research. <i>Advanced Materials</i> , 2020 , 32, e1906512 | 26.12 | 38 |
| 72 | Corticospinal neuroprostheses to restore locomotion after spinal cord injury. <i>Neuroscience Research</i> , 2014 , 78, 21-9 | 2.9 | 38 |
| 71 | Combinatory electrical and pharmacological neuroprosthetic interfaces to regain motor function after spinal cord injury. <i>IEEE Transactions on Biomedical Engineering</i> , 2009 , 56, 2707-11 | 5 | 38 |
| 70 | Methods for functional assessment after C7 spinal cord hemisection in the rhesus monkey. <i>Neurorehabilitation and Neural Repair</i> , 2012 , 26, 556-69 | 4.7 | 37 |
| 69 | A multidirectional gravity-assist algorithm that enhances locomotor control in patients with stroke or spinal cord injury. <i>Science Translational Medicine</i> , 2017 , 9, | 17.5 | 31 |
| 68 | Recruitment of upper-limb motoneurons with epidural electrical stimulation of the cervical spinal cord. <i>Nature Communications</i> , 2021 , 12, 435 | 17.4 | 31 |
| 67 | Advantages of soft subdural implants for the delivery of electrochemical neuromodulation therapies to the spinal cord. <i>Journal of Neural Engineering</i> , 2018 , 15, 026024 | 5 | 30 |
| 66 | Structured nanoscale metallic glass fibres with extreme aspect ratios. <i>Nature Nanotechnology</i> , 2020 , 15, 875-882 | 28.7 | 30 |
| 65 | Spinal cord injury: time to move. <i>Lancet, The</i> , 2011 , 377, 1896-8 | 40 | 29 |
| 64 | Engagement of the Rat Hindlimb Motor Cortex across Natural Locomotor Behaviors. <i>Journal of Neuroscience</i> , 2016 , 36, 10440-10455 | 6.6 | 29 |
| 63 | Cell type prioritization in single-cell data. <i>Nature Biotechnology</i> , 2021 , 39, 30-34 | 44.5 | 27 |
| 62 | Neuroprosthetic baroreflex controls haemodynamics after spinal cord injury. <i>Nature</i> , 2021 , 590, 308-314 | 50.4 | 27 |
| 61 | Wearable Sensor-Based Real-Time Gait Detection: A Systematic Review. <i>Sensors</i> , 2021 , 21, | 3.8 | 26 |
| 60 | Optical cuff for optogenetic control of the peripheral nervous system. <i>Journal of Neural Engineering</i> , 2018 , 15, 015002 | 5 | 25 |
| 59 | Asymmetrical after-effects of prism adaptation during goal oriented locomotion. <i>Experimental Brain Research</i> , 2008 , 185, 259-68 | 2.3 | 25 |

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|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|----|
| 58 | Defining ecological strategies in neuroprosthetics. <i>Neuron</i> , 2015 , 86, 29-33 | 13.9 | 23 |
| 57 | Multisystem neuroprosthetic training improves bladder function after severe spinal cord injury. <i>Journal of Urology</i> , 2013 , 189, 747-53 | 2.5 | 23 |
| 56 | Neuroprosthetic technologies to augment the impact of neurorehabilitation after spinal cord injury. <i>Annals of Physical and Rehabilitation Medicine</i> , 2015 , 58, 232-237 | 3.8 | 22 |
| 55 | Brain-machine interface: closer to therapeutic reality?. <i>Lancet, The</i> , 2013 , 381, 515-7 | 4.0 | 22 |
| 54 | Decoding bipedal locomotion from the rat sensorimotor cortex. <i>Journal of Neural Engineering</i> , 2015 , 12, 056014 | 5 | 22 |
| 53 | Gait-dependent integration of neck muscle afferent input. <i>NeuroReport</i> , 2003 , 14, 2365-8 | 1.7 | 22 |
| 52 | Closed-loop control of trunk posture improves locomotion through the regulation of leg proprioceptive feedback after spinal cord injury. <i>Scientific Reports</i> , 2018 , 8, 76 | 4.9 | 21 |
| 51 | Recovery of the locomotor function after prolonged microgravity exposure. I. Head-trunk movement and locomotor equilibrium during various tasks. <i>Experimental Brain Research</i> , 2004 , 158, 86-99 | 3.3 | 21 |
| 50 | Confronting false discoveries in single-cell differential expression. <i>Nature Communications</i> , 2021 , 12, 5692 | 17.4 | 21 |
| 49 | Research Update: Platinum-elastomer mesocomposite as neural electrode coating. <i>APL Materials</i> , 2015 , 3, 014701 | 5.7 | 20 |
| 48 | Prolonged exposure to microgravity modifies limb endpoint kinematics during the swing phase of human walking. <i>Neuroscience Letters</i> , 2002 , 332, 70-4 | 3.3 | 18 |
| 47 | Soft Printable Electrode Coating for Neural Interfaces.. <i>ACS Applied Bio Materials</i> , 2020 , 3, 4388-4397 | 4.1 | 17 |
| 46 | Soft robot for gait rehabilitation of spinalized rodents 2013 , | | 17 |
| 45 | Guidelines to Study and Develop Soft Electrode Systems for Neural Stimulation. <i>Neuron</i> , 2020 , 108, 238-258 | 3.9 | 17 |
| 44 | Monolayer Graphene Coating of Intracortical Probes for Long-Lasting Neural Activity Monitoring. <i>Advanced Healthcare Materials</i> , 2019 , 8, e1801331 | 10.1 | 16 |
| 43 | Influence of Spinal Cord Integrity on Gait Control in Human Spinal Cord Injury. <i>Neurorehabilitation and Neural Repair</i> , 2016 , 30, 562-72 | 4.7 | 15 |
| 42 | Electronic Dura Mater Meddling in the Central Nervous System. <i>JAMA Neurology</i> , 2017 , 74, 470-475 | 17.2 | 14 |
| 41 | Unconstrained three-dimensional reaching in rhesus monkeys. <i>Experimental Brain Research</i> , 2011 , 209, 35-50 | 2.3 | 14 |

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| 40 | Neurorestorative interventions involving bioelectronic implants after spinal cord injury. <i>Bioelectronic Medicine</i> , 2019 , 5, 10 | 5.4 | 13 |
| 39 | Leveraging biomedical informatics for assessing plasticity and repair in primate spinal cord injury. <i>Brain Research</i> , 2015 , 1619, 124-38 | 3.7 | 12 |
| 38 | Activity-dependent spinal cord neuromodulation rapidly restores trunk and leg motor functions after complete paralysis.. <i>Nature Medicine</i> , 2022 , | 50.5 | 12 |
| 37 | Rehabilitative Soft Exoskeleton for Rodents. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2017 , 25, 107-118 | 4.8 | 11 |
| 36 | A neurobotic platform for locomotor prosthetic development in rats and mice. <i>Journal of Neural Engineering</i> , 2016 , 13, 026007 | 5 | 11 |
| 35 | Comment on "Restoring voluntary control of locomotion after paralyzing spinal cord injury". <i>Science</i> , 2012 , 338, 328; author reply 328 | 33.3 | 10 |
| 34 | Towards adaptive deep brain stimulation: clinical and technical notes on a novel commercial device for chronic brain sensing. <i>Journal of Neural Engineering</i> , 2021 , 18, | 5 | 10 |
| 33 | MRI-Compatible and Conformal Electroocortigraphy Grids for Translational Research. <i>Advanced Science</i> , 2021 , 8, 2003761 | 13.6 | 9 |
| 32 | Inhaling xenon ameliorates l-dopa-induced dyskinesia in experimental parkinsonism. <i>Movement Disorders</i> , 2018 , 33, 1632-1642 | 7 | 9 |
| 31 | Wireless closed-loop optogenetics across the entire dorsoventral spinal cord in mice. <i>Nature Biotechnology</i> , 2021 , | 44.5 | 9 |
| 30 | Multi-pronged neuromodulation intervention engages the residual motor circuitry to facilitate walking in a rat model of spinal cord injury. <i>Nature Communications</i> , 2021 , 12, 1925 | 17.4 | 7 |
| 29 | Confronting false discoveries in single-cell differential expression | | 7 |
| 28 | Long-term functionality of a soft electrode array for epidural spinal cord stimulation in a minipig model. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1432-1435 | 0.9 | 7 |
| 27 | Selective Recruitment of Arm Motoneurons in Nonhuman Primates Using Epidural Electrical Stimulation of the Cervical Spinal Cord. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2018 , 2018, 1424-1427 | 0.9 | 6 |
| 26 | Motor cortical dynamics are shaped by multiple distinct subspaces during naturalistic behavior | | 5 |
| 25 | Regulation of Posture and Locomotion in Decerebrate and Spinal Animals. <i>Neuroscience and Behavioral Physiology</i> , 2015 , 45, 229-237 | 0.3 | 4 |
| 24 | A Single Cell Atlas of Spared Tissue Below a Spinal Cord Injury Reveals Cellular Mechanisms of Repair | | 4 |
| 23 | Meeting Proceedings for SCI 2020: Launching a Decade of Disruption in Spinal Cord Injury Research. <i>Journal of Neurotrauma</i> , 2021 , 38, 1251-1266 | 5.4 | 4 |

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|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|---|
| 22 | Prioritization of cell types responsive to biological perturbations in single-cell data with Augur. <i>Nature Protocols</i> , 2021 , 16, 3836-3873 | 18.8 | 4 |
| 21 | Low-Dimensional Motor Cortex Dynamics Preserve Kinematics Information During Unconstrained Locomotion in Nonhuman Primates. <i>Frontiers in Neuroscience</i> , 2019 , 13, 1046 | 5.1 | 3 |
| 20 | Résonance de l'effet vibratoire durant la marche humaine. <i>Société De Biologie Journal</i> , 2001 , 195, 443-446 | | 3 |
| 19 | Recruitment of Upper-Limb Motoneurons with Epidural Electrical Stimulation of the Primate Cervical Spinal Cord | | 3 |
| 18 | Bioelectronic Interfaces: Soft, Implantable Bioelectronic Interfaces for Translational Research (Adv. Mater. 17/2020). <i>Advanced Materials</i> , 2020 , 32, 2070133 | 24 | 2 |
| 17 | Engineering spinal cord repair. <i>Current Opinion in Biotechnology</i> , 2021 , 72, 48-53 | 11.4 | 2 |
| 16 | Cell type prioritization in single-cell data | | 2 |
| 15 | Epidural Electrical Stimulation of the Cervical Dorsal Roots Restores Voluntary Arm Control In Paralyzed Monkeys | | 2 |
| 14 | Elezanumab, a human anti-RGMA monoclonal antibody, promotes neuroprotection, neuroplasticity, and neurorecovery following a thoracic hemicompression spinal cord injury in non-human primates. <i>Neurobiology of Disease</i> , 2021 , 155, 105385 | 7.5 | 2 |
| 13 | Introducing a biomimetic coating for graphene neuroelectronics: toward applications.. <i>Biomedical Physics and Engineering Express</i> , 2020 , 7, | 1.5 | 2 |
| 12 | Neglected physical human-robot interaction may explain variable outcomes in gait neurorehabilitation research. <i>Science Robotics</i> , 2021 , 6, eabf1888 | 18.6 | 2 |
| 11 | A Whole-Body Musculoskeletal Model of the Mouse.. <i>IEEE Access</i> , 2021 , 9, 163861-163881 | 3.5 | 1 |
| 10 | Intrafascicular peripheral nerve stimulation produces fine functional hand movements in primates. <i>Science Translational Medicine</i> , 2021 , 13, eabg6463 | 17.5 | 1 |
| 9 | Principles of gait encoding in the subthalamic nucleus of people with Parkinson's disease | | 1 |
| 8 | Preclinical upper limb neurobotic platform to assess, rehabilitate, and develop therapies.. <i>Science Robotics</i> , 2022 , 7, eabk2378 | 18.6 | 1 |
| 7 | Implanted System for Orthostatic Hypotension in Multiple-System Atrophy.. <i>New England Journal of Medicine</i> , 2022 , 386, 1339-1344 | 59.2 | 1 |
| 6 | Multisystem Neurorehabilitation in Rodents with Spinal Cord Injury 2016 , 59-77 | | 0 |
| 5 | A Computational Framework for the Design of Spinal Neuroprostheses. <i>Biosystems and Biorobotics</i> , 2017 , 23-27 | 0.2 | |

- 4 Development of an Intraneural Peripheral Stimulation Paradigm for the Restoration of Fine Hand Control in Non-human Primates. *Biosystems and Biorobotics*, **2019**, 112-116 0.2
- 3 Multisystem Neurorehabilitation in Rodents with Spinal Cord Injury **2012**, 3-21
- 2 Head position during various locomotor executions after prolonged microgravity exposure. *Journal of Gravitational Physiology: A Journal of the International Society for Gravitational Physiology*, **2002**, 9, P163-4
- 1 Optogenetic Interrogation of Circuits Following Neurotrauma.. *Frontiers in Molecular Neuroscience*, **2021**, 14, 803856 6.1