

Isabelle Loubinoux

List of Publications by Year in descending order

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Version: 2024-02-01

73
papers

4,811
citations

136740

32
h-index

95083

68
g-index

80
all docs

80
docs citations

80
times ranked

5707
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Fluoxetine for motor recovery after acute ischaemic stroke (FLAME): a randomised placebo-controlled trial. <i>Lancet Neurology</i> , The, 2011, 10, 123-130. | 4.9 | 795 |
| 2 | Fluoxetine modulates motor performance and cerebral activation of patients recovering from stroke. <i>Annals of Neurology</i> , 2001, 50, 718-729. | 2.8 | 345 |
| 3 | A longitudinal fMRI study: in recovering and then in clinically stable sub-cortical stroke patients. <i>NeuroImage</i> , 2004, 23, 827-839. | 2.1 | 242 |
| 4 | Post-stroke depression: mechanisms, translation and therapy. <i>Journal of Cellular and Molecular Medicine</i> , 2012, 16, 1961-1969. | 1.6 | 239 |
| 5 | Correlation between cerebral reorganization and motor recovery after subcortical infarcts. <i>NeuroImage</i> , 2003, 20, 2166-2180. | 2.1 | 219 |
| 6 | The ipsilateral cerebellar hemisphere is overactive during hand movements in akinetic parkinsonian patients. <i>Brain</i> , 1997, 120, 103-110. | 3.7 | 190 |
| 7 | Spreading of Vasogenic Edema and Cytotoxic Edema Assessed by Quantitative Diffusion and T2 Magnetic Resonance Imaging. <i>Stroke</i> , 1997, 28, 419-427. | 1.0 | 181 |
| 8 | Engineering of adult human neural stem cells differentiation through surface micropatterning. <i>Biomaterials</i> , 2012, 33, 504-514. | 5.7 | 172 |
| 9 | Neural Substrate for the Effects of Passive Training on Sensorimotor Cortical Representation: A Study with Functional Magnetic Resonance Imaging in Healthy Subjects. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2000, 20, 478-484. | 2.4 | 153 |
| 10 | Within-Session and Between-Session Reproducibility of Cerebral Sensorimotor Activation: A Test-Retest Effect Evidenced with Functional Magnetic Resonance Imaging. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2001, 21, 592-607. | 2.4 | 145 |
| 11 | Neuroimaging in Stroke Recovery: A Position Paper from the First International Workshop on Neuroimaging and Stroke Recovery. <i>Cerebrovascular Diseases</i> , 2004, 18, 260-267. | 0.8 | 115 |
| 12 | A Single Dose of the Serotonin Neurotransmission Agonist Paroxetine Enhances Motor Output: Double-Blind, Placebo-Controlled, fMRI Study in Healthy Subjects. <i>NeuroImage</i> , 2002, 15, 26-36. | 2.1 | 107 |
| 13 | Subthalamic Nucleus Stimulation Reduces Abnormal Motor Cortical Overactivity in Parkinson Disease. <i>Archives of Neurology</i> , 2004, 61, 1307-13. | 4.9 | 104 |
| 14 | Prognostic Value of fMRI in Recovery of Hand Function in Subcortical Stroke Patients. <i>Cerebral Cortex</i> , 2007, 17, 2980-2987. | 1.6 | 103 |
| 15 | Chronic administration of selective serotonin reuptake inhibitor (SSRI) paroxetine modulates human motor cortex excitability in healthy subjects. <i>NeuroImage</i> , 2005, 27, 314-322. | 2.1 | 101 |
| 16 | Disruption of posteromedial large-scale neural communication predicts recovery from coma. <i>Neurology</i> , 2015, 85, 2036-2044. | 1.5 | 83 |
| 17 | Neural Correlates of Proprioceptive Integration in the Contralesional Hemisphere of Very Impaired Patients Shortly After a Subcortical Stroke: An fMRI Study. <i>Neurorehabilitation and Neural Repair</i> , 2008, 22, 154-165. | 1.4 | 76 |
| 18 | Induction of Cortical Plastic Changes in Wrist Muscles by Paired Associative Stimulation in the Recovery Phase of Stroke Patients. <i>Neurorehabilitation and Neural Repair</i> , 2009, 23, 366-372. | 1.4 | 74 |

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|----|---|-----|-----------|
| 19 | Post-stroke remodeling processes in animal models and humans. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 2020, 40, 3-22. | 2.4 | 73 |
| 20 | Modulation of behavior and cortical motor activity in healthy subjects by a chronic administration of a serotonin enhancer. <i>NeuroImage</i> , 2005, 27, 299-313. | 2.1 | 72 |
| 21 | Two-photon lithography and microscopy of 3D hydrogel scaffolds for neuronal cell growth. <i>Biomedical Physics and Engineering Express</i> , 2018, 4, 027009. | 0.6 | 72 |
| 22 | Cerebral Functional Magnetic Resonance Imaging Activation Modulated by a Single Dose of the Monoamine Neurotransmission Enhancers Fluoxetine and Fenozolone during Hand Sensorimotor Tasks. <i>Journal of Cerebral Blood Flow and Metabolism</i> , 1999, 19, 1365-1375. | 2.4 | 70 |
| 23 | Anodal tDCS Combined With Radial Nerve Stimulation Promotes Hand Motor Recovery in the Acute Phase After Ischemic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2015, 29, 743-754. | 1.4 | 70 |
| 24 | Event-Related Potentials Elicited by Passive Movements in Humans: Characterization, Source Analysis, and Comparison to fMRI. <i>NeuroImage</i> , 1998, 8, 377-390. | 2.1 | 62 |
| 25 | Multiphoton Direct Laser Writing and 3D Imaging of Polymeric Freestanding Architectures for Cell Colonization. <i>Small</i> , 2017, 13, 1700621. | 5.2 | 58 |
| 26 | Induction of cortical plastic changes in wrist muscles by paired associative stimulation in healthy subjects and post-stroke patients. <i>Experimental Brain Research</i> , 2007, 180, 113-122. | 0.7 | 57 |
| 27 | Methylphenidate modulates cerebral post-stroke reorganization. <i>NeuroImage</i> , 2006, 33, 913-922. | 2.1 | 49 |
| 28 | Selective serotonin reuptake inhibitor paroxetine modulates motor behavior through practice. A double-blind, placebo-controlled, multi-dose study in healthy subjects. <i>Neuropsychologia</i> , 2002, 40, 1815-1821. | 0.7 | 47 |
| 29 | Elucidation of the Role of Carbon Nanotube Patterns on the Development of Cultured Neuronal Cells. <i>Langmuir</i> , 2012, 28, 17363-17371. | 1.6 | 46 |
| 30 | Transition from rest to movement: Brain correlates revealed by functional connectivity. <i>NeuroImage</i> , 2009, 48, 207-216. | 2.1 | 42 |
| 31 | A One-Dimensional (Proton and Phosphorus) and Two-Dimensional (Proton) In Vivo NMR Spectroscopic Study of Reversible Global Cerebral Ischemia. <i>Journal of Neurochemistry</i> , 2002, 66, 2491-2499. | 2.1 | 40 |
| 32 | Neural substrates of low-frequency repetitive transcranial magnetic stimulation during movement in healthy subjects and acute stroke patients. A PET study. <i>Human Brain Mapping</i> , 2009, 30, 2542-2557. | 1.9 | 38 |
| 33 | Micropatterned bioimplant with guided neuronal cells to promote tissue reconstruction and improve functional recovery after primary motor cortex insult. <i>Biomaterials</i> , 2015, 58, 46-53. | 5.7 | 35 |
| 34 | Impaired Visual Hand Recognition in Preoperative Patients during Brachial Plexus Anesthesia. <i>Anesthesiology</i> , 2011, 114, 126-134. | 1.3 | 33 |
| 35 | Post-stroke hemiplegia rehabilitation: Evolution of the concepts. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014, 57, 520-529. | 1.1 | 30 |
| 36 | Simple Synthetic Molecular Hydrogels from Self-Assembling Alkylgalactonamides as Scaffold for 3D Neuronal Cell Growth. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 17004-17017. | 4.0 | 30 |

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|----|---|-----|-----------|
| 37 | Direct laser fabrication of free-standing PEGDA-hydrogel scaffolds for neuronal cell growth. <i>Materials Today</i> , 2018, 21, 315-316. | 8.3 | 29 |
| 38 | Cerebral metabolic changes induced by MK-801: a 1D (phosphorus and proton) and 2D (proton) in vivo NMR spectroscopy study. <i>Brain Research</i> , 1994, 643, 115-124. | 1.1 | 25 |
| 39 | Interfacing cells with microengineered scaffolds for neural tissue reconstruction. <i>Brain Research Bulletin</i> , 2019, 152, 202-211. | 1.4 | 25 |
| 40 | Serotonin Selective Reuptake Inhibitors (SSRIs) and Stroke. <i>Current Neurology and Neuroscience Reports</i> , 2018, 18, 100. | 2.0 | 23 |
| 41 | Use of Antidepressant Medications To Improve Outcomes After Stroke. <i>Current Neurology and Neuroscience Reports</i> , 2013, 13, 318. | 2.0 | 22 |
| 42 | Multi-scale engineering for neuronal cell growth and differentiation. <i>Microelectronic Engineering</i> , 2011, 88, 1668-1671. | 1.1 | 21 |
| 43 | Wet spinning and radial self-assembly of a carbohydrate low molecular weight gelator into well organized hydrogel filaments. <i>Nanoscale</i> , 2019, 11, 15043-15056. | 2.8 | 21 |
| 44 | Five-day course of paired associative stimulation fails to improve motor function in stroke patients. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, 78-84. | 1.1 | 19 |
| 45 | Temporal analysis of regional anaesthesia-induced sensorimotor dysfunction: a model for understanding phantom limb. <i>British Journal of Anaesthesia</i> , 2010, 105, 208-213. | 1.5 | 18 |
| 46 | Transcranial magnetic stimulation in brain injury. <i>Annales Francaises D'Anesthesie Et De Reanimation</i> , 2014, 33, 83-87. | 1.4 | 18 |
| 47 | Regenerative potential of primary adult human neural stem cells on micropatterned bio-implants boosts motor recovery. <i>Stem Cell Research and Therapy</i> , 2017, 8, 253. | 2.4 | 16 |
| 48 | Action, observation or imitation of virtual hand movement affect differently regions of the mirror neuron system and the default mode network. <i>Brain Imaging and Behavior</i> , 2018, 12, 1363-1378. | 1.1 | 15 |
| 49 | Strength and fine dexterity recovery profiles after a primary motor cortex insult and effect of a neuronal cell graft.. <i>Behavioral Neuroscience</i> , 2015, 129, 423-434. | 0.6 | 14 |
| 50 | A shear-induced network of aligned wormlike micelles in a sugar-based molecular gel. From gelation to biocompatibility assays. <i>Journal of Colloid and Interface Science</i> , 2017, 504, 721-730. | 5.0 | 14 |
| 51 | Monoaminergic drugs for motor recovery after ischemic stroke. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014, 57, 509-519. | 1.1 | 13 |
| 52 | Neuropharmacology in stroke recovery. , 2010, , 183-194. | | 12 |
| 53 | Cerebral imaging of post-stroke plasticity and tissue repair. <i>Revue Neurologique</i> , 2017, 173, 577-583. | 0.6 | 12 |
| 54 | Enhancing Plasticity of the Central Nervous System: Drugs, Stem Cell Therapy, and Neuro-Implants. <i>Neural Plasticity</i> , 2017, 2017, 1-9. | 1.0 | 12 |

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|----|--|-----|-----------|
| 55 | Investigation of the Competition Between Cell/Scp>Surface and Cell/Scp>Cell Interactions During Neuronal Cell Culture on a Micro&sc>E<sc>ngineered Surface. Macromolecular Bioscience, 2013, 13, 1546-1555. | 2.1 | 10 |
| 56 | Stem cells and motor recovery after stroke. Annals of Physical and Rehabilitation Medicine, 2014, 57, 499-508. | 1.1 | 10 |
| 57 | Adult human progenitor cells from the temporal lobe: Another source of neuronal cells. Brain Injury, 2012, 26, 1636-1645. | 0.6 | 9 |
| 58 | Kinematic parameters obtained with the ArmeoSpring for upper-limb assessment after stroke: a reliability and learning effect study for guiding parameter use. Journal of NeuroEngineering and Rehabilitation, 2020, 17, 130. | 2.4 | 9 |
| 59 | Imaging grafted cells with [18F]FHBC using an optimized HSV1-TK mammalian expression vector in a brain injury rodent model. PLoS ONE, 2017, 12, e0184630. | 1.1 | 8 |
| 60 | Focal Malonate Injection Into the Internal Capsule of Rats as a Model of Lacunar Stroke. Frontiers in Neurology, 2018, 9, 1072. | 1.1 | 8 |
| 61 | Cross-Modal Functional Connectivity of the Premotor Cortex Reflects Residual Motor Output After Stroke. Brain Connectivity, 2020, 10, 236-249. | 0.8 | 7 |
| 62 | Delayed progression of cytotoxic oedema in focal cerebral ischemia after treatment with a torasemide derivative: a diffusion-weighted magnetic resonance imaging study. Neuroscience Letters, 1996, 213, 123-126. | 1.0 | 6 |
| 63 | WAKEFULNESS AND LOSS OF AWARENESS: BRAIN AND BRAINSTEM INTERACTION IN THE VEGETATIVE STATE. Neurology, 2010, 75, 751-752. | 1.5 | 6 |
| 64 | Poststroke Conscious Visual Deficit. Neurorehabilitation and Neural Repair, 2011, 25, 703-710. | 1.4 | 6 |
| 65 | Corticospinal Tract Tracing in the Marmoset with a Clinical Whole-Body 3T Scanner Using Manganese-Enhanced MRI. PLoS ONE, 2015, 10, e0138308. | 1.1 | 6 |
| 66 | A Reproducible New Model of Focal Ischemic Injury in the Marmoset Monkey: MRI and Behavioural Follow-Up. Translational Stroke Research, 2021, 12, 98-111. | 2.3 | 5 |
| 67 | RÃ©cupÃ©ration neurologique post-ischÃ©mique. Bulletin De L'Academie Nationale De Medecine, 2002, 186, 1015-1024. | 0.0 | 4 |
| 68 | Cerebral Hemodynamic Changes Induced by a Lumbar Puncture in Good-Grade Subarachnoid Hemorrhage. Cerebrovascular Diseases Extra, 2012, 2, 52-62. | 0.5 | 4 |
| 69 | The effects of a butanediol treatment on acute focal cerebral ischemia assessed by quantitative diffusion and T2 MR imaging. Magnetic Resonance Imaging, 1997, 15, 1045-1055. | 1.0 | 3 |
| 70 | Can fMRI Measures of Brain Motor Activation Add Significantly to Other Variables in the Prediction of Treatment Response?. Stroke, 2007, 38, 2032-2033. | 1.0 | 3 |
| 71 | Present and future avenues of cell–based therapy for brain injury: The enteric nervous system as a potential cell source. Brain Pathology, 2022, 32, . | 2.1 | 3 |
| 72 | Controlling for lesions, kinematics and physiological noise: impact on fMRI results of spastic post-stroke patients. MethodsX, 2020, 7, 101056. | 0.7 | 1 |

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|----|---|-----|-----------|
| 73 | The Role of Fluoxetine and Selective Serotonin Re-uptake Inhibitors in Motor Recovery Following Acute Ischaemic Stroke. <i>European Neurological Review</i> , 2011, 6, 249. | 0.5 | 1 |