## Isabelle Loubinoux

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Fluoxetine for motor recovery after acute ischaemic stroke (FLAME): a randomised placebo-controlled trial. Lancet Neurology, The, 2011, 10, 123-130.	10.2	795
2	Fluoxetine modulates motor performance and cerebral activation of patients recovering from stroke. Annals of Neurology, 2001, 50, 718-729.	5.3	345
3	A longitudinal fMRI study: in recovering and then in clinically stable sub-cortical stroke patients. NeuroImage, 2004, 23, 827-839.	4.2	242
4	Postâ€ <del>s</del> troke depression: mechanisms, translation and therapy. Journal of Cellular and Molecular Medicine, 2012, 16, 1961-1969.	3.6	239
5	Correlation between cerebral reorganization and motor recovery after subcortical infarcts. NeuroImage, 2003, 20, 2166-2180.	4.2	219
6	The ipsilateral cerebellar hemisphere is overactive during hand movements in akinetic parkinsonian patients. Brain, 1997, 120, 103-110.	7.6	190
7	Spreading of Vasogenic Edema and Cytotoxic Edema Assessed by Quantitative Diffusion and T2 Magnetic Resonance Imaging. Stroke, 1997, 28, 419-427.	2.0	181
8	Engineering of adult human neural stem cells differentiation through surface micropatterning. Biomaterials, 2012, 33, 504-514.	11.4	172
9	Neural Substrate for the Effects of Passive Training on Sensorimotor Cortical Representation: A Study with Functional Magnetic Resonance Imaging in Healthy Subjects. Journal of Cerebral Blood Flow and Metabolism, 2000, 20, 478-484.	4.3	153
10	Within-Session and Between-Session Reproducibility of Cerebral Sensorimotor Activation: A Test–Retest Effect Evidenced with Functional Magnetic Resonance Imaging. Journal of Cerebral Blood Flow and Metabolism, 2001, 21, 592-607.	4.3	145
11	Neuroimaging in Stroke Recovery: A Position Paper from the First International Workshop on Neuroimaging and Stroke Recovery. Cerebrovascular Diseases, 2004, 18, 260-267.	1.7	115
12	A Single Dose of the Serotonin Neurotransmission Agonist Paroxetine Enhances Motor Output: Double-Blind, Placebo-Controlled, fMRI Study in Healthy Subjects. NeuroImage, 2002, 15, 26-36.	4.2	107
13	Subthalamic Nucleus Stimulation Reduces Abnormal Motor Cortical Overactivity in Parkinson Disease. Archives of Neurology, 2004, 61, 1307-13.	4.5	104
14	Prognostic Value of fMRI in Recovery of Hand Function in Subcortical Stroke Patients. Cerebral Cortex, 2007, 17, 2980-2987.	2.9	103
15	Chronic administration of selective serotonin reuptake inhibitor (SSRI) paroxetine modulates human motor cortex excitability in healthy subjects. NeuroImage, 2005, 27, 314-322.	4.2	101
16	Disruption of posteromedial large-scale neural communication predicts recovery from coma. Neurology, 2015, 85, 2036-2044.	1.1	83
17	Neural Correlates of Proprioceptive Integration in the Contralesional Hemisphere of Very Impaired Patients Shortly After a Subcortical Stroke: An fMRI Study. Neurorehabilitation and Neural Repair, 2008, 22, 154-165.	2.9	76
18	Induction of Cortical Plastic Changes in Wrist Muscles by Paired Associative Stimulation in the Recovery Phase of Stroke Patients, Neurorebabilitation and Neural Repair, 2009, 23, 366-372	2.9	74

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19	Post-stroke remodeling processes in animal models and humans. Journal of Cerebral Blood Flow and Metabolism, 2020, 40, 3-22.	4.3	73
20	Modulation of behavior and cortical motor activity in healthy subjects by a chronic administration of a serotonin enhancer. NeuroImage, 2005, 27, 299-313.	4.2	72
21	Two-photon lithography and microscopy of 3D hydrogel scaffolds for neuronal cell growth. Biomedical Physics and Engineering Express, 2018, 4, 027009.	1.2	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. Journal of Cerebral Blood Flow and Metabolism, 1999, 19, 1365-1375.	4.3	70
23	Anodal tDCS Combined With Radial Nerve Stimulation Promotes Hand Motor Recovery in the Acute Phase After Ischemic Stroke. Neurorehabilitation and Neural Repair, 2015, 29, 743-754.	2.9	70
24	Event-Related Potentials Elicited by Passive Movements in Humans: Characterization, Source Analysis, and Comparison to fMRI. NeuroImage, 1998, 8, 377-390.	4.2	62
25	Multiphoton Direct Laser Writing and 3D Imaging of Polymeric Freestanding Architectures for Cell Colonization. Small, 2017, 13, 1700621.	10.0	58
26	Induction of cortical plastic changes in wrist muscles by paired associative stimulation in healthy subjects and post-stroke patients. Experimental Brain Research, 2007, 180, 113-122.	1.5	57
27	Methylphenidate modulates cerebral post-stroke reorganization. NeuroImage, 2006, 33, 913-922.	4.2	49
28	Selective serotonin reuptake inhibitor paroxetine modulates motor behavior through practice. A double-blind, placebo-controlled, multi-dose study in healthy subjects. Neuropsychologia, 2002, 40, 1815-1821.	1.6	47
29	Elucidation of the Role of Carbon Nanotube Patterns on the Development of Cultured Neuronal Cells. Langmuir, 2012, 28, 17363-17371.	3.5	46
30	Transition from rest to movement: Brain correlates revealed by functional connectivity. NeuroImage, 2009, 48, 207-216.	4.2	42
31	A One-Dimensional (Proton and Phosphorus) and Two-Dimensional (Proton) In Vivo NMR Spectroscopic Study of Reversible Global Cerebral Ischemia. Journal of Neurochemistry, 2002, 66, 2491-2499.	3.9	40
32	Neural substrates of lowâ€frequency repetitive transcranial magnetic stimulation during movement in healthy subjects and acute stroke patients. A PET study. Human Brain Mapping, 2009, 30, 2542-2557.	3.6	38
33	Micropatterned bioimplant with guided neuronal cells to promote tissue reconstruction and improve functional recovery after primary motor cortex insult. Biomaterials, 2015, 58, 46-53.	11.4	35
34	Impaired Visual Hand Recognition in Preoperative Patients during Brachial Plexus Anesthesia. Anesthesiology, 2011, 114, 126-134.	2.5	33
35	Post-stroke hemiplegia rehabilitation: Evolution of the concepts. Annals of Physical and Rehabilitation Medicine, 2014, 57, 520-529.	2.3	30
36	Simple Synthetic Molecular Hydrogels from Self-Assembling Alkylgalactonamides as Scaffold for 3D Neuronal Cell Growth. ACS Applied Materials & Interfaces, 2018, 10, 17004-17017.	8.0	30

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37	Direct laser fabrication of free-standing PEGDA-hydrogel scaffolds for neuronal cell growth. Materials Today, 2018, 21, 315-316.	14.2	29
38	Cerebral metabolic changes induced by MK-801: a 1D (phosphorus and proton) and 2D (proton) in vivo NMR spectroscopy study. Brain Research, 1994, 643, 115-124.	2.2	25
39	Interfacing cells with microengineered scaffolds for neural tissue reconstruction. Brain Research Bulletin, 2019, 152, 202-211.	3.0	25
40	Serotonin Selective Reuptake Inhibitors (SSRIs) and Stroke. Current Neurology and Neuroscience Reports, 2018, 18, 100.	4.2	23
41	Use of Antidepressant Medications To Improve Outcomes After Stroke. Current Neurology and Neuroscience Reports, 2013, 13, 318.	4.2	22
42	Multi-scale engineering for neuronal cell growth and differentiation. Microelectronic Engineering, 2011, 88, 1668-1671.	2.4	21
43	Wet spinning and radial self-assembly of a carbohydrate low molecular weight gelator into well organized hydrogel filaments. Nanoscale, 2019, 11, 15043-15056.	5.6	21
44	Five-day course of paired associative stimulation fails to improve motor function in stroke patients. Annals of Physical and Rehabilitation Medicine, 2018, 61, 78-84.	2.3	19
45	Temporal analysis of regional anaesthesia-induced sensorimotor dysfunction: a model for understanding phantom limb. British Journal of Anaesthesia, 2010, 105, 208-213.	3.4	18
46	Transcranial magnetic stimulation in brain injury. Annales Francaises D'Anesthesie Et De Reanimation, 2014, 33, 83-87.	1.4	18
47	Regenerative potential of primary adult human neural stem cells on micropatterned bio-implants boosts motor recovery. Stem Cell Research and Therapy, 2017, 8, 253.	5.5	16
48	Action, observation or imitation of virtual hand movement affect differently regions of the mirror neuron system and the default mode network. Brain Imaging and Behavior, 2018, 12, 1363-1378.	2.1	15
49	Strength and fine dexterity recovery profiles after a primary motor cortex insult and effect of a neuronal cell graft Behavioral Neuroscience, 2015, 129, 423-434.	1.2	14
50	A shear-induced network of aligned wormlike micelles in a sugar-based molecular gel. From gelation to biocompatibility assays. Journal of Colloid and Interface Science, 2017, 504, 721-730.	9.4	14
51	Monoaminergic drugs for motor recovery after ischemic stroke. Annals of Physical and Rehabilitation Medicine, 2014, 57, 509-519.	2.3	13
52	Neuropharmacology in stroke recovery. , 2010, , 183-194.		12
53	Cerebral imaging of post-stroke plasticity and tissue repair. Revue Neurologique, 2017, 173, 577-583.	1.5	12
54	Enhancing Plasticity of the Central Nervous System: Drugs, Stem Cell Therapy, and Neuro-Implants. Neural Plasticity, 2017, 2017, 1-9.	2.2	12

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55	Investigation of the Competition Between Cell/ <scp>S</scp> urface and Cell/ <scp>C</scp> ell Interactions During Neuronal Cell Culture on a Microâ€ <scp>E</scp> ngineered Surface. Macromolecular Bioscience, 2013, 13, 1546-1555.	4.1	10
56	Stem cells and motor recovery after stroke. Annals of Physical and Rehabilitation Medicine, 2014, 57, 499-508.	2.3	10
57	Adult human progenitor cells from the temporal lobe: Another source of neuronal cells. Brain Injury, 2012, 26, 1636-1645.	1.2	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.	4.6	9
59	Imaging grafted cells with [18F]FHBG using an optimized HSV1-TK mammalian expression vector in a brain injury rodent model. PLoS ONE, 2017, 12, e0184630.	2.5	8
60	Focal Malonate Injection Into the Internal Capsule of Rats as a Model of Lacunar Stroke. Frontiers in Neurology, 2018, 9, 1072.	2.4	8
61	Cross-Modal Functional Connectivity of the Premotor Cortex Reflects Residual Motor Output After Stroke. Brain Connectivity, 2020, 10, 236-249.	1.7	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.	2.1	6
63	WAKEFULNESS AND LOSS OF AWARENESS: BRAIN AND BRAINSTEM INTERACTION IN THE VEGETATIVE STATE. Neurology, 2010, 75, 751-752.	1.1	6
64	Poststroke Conscious Visual Deficit. Neurorehabilitation and Neural Repair, 2011, 25, 703-710.	2.9	6
65	Corticospinal Tract Tracing in the Marmoset with a Clinical Whole-Body 3T Scanner Using Manganese-Enhanced MRI. PLoS ONE, 2015, 10, e0138308.	2.5	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.	4.2	5
67	Récupération neurologique post-ischémique. 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.	1.5	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.	1.8	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.	2.0	3
71	Present and future avenues of cellâ€based therapy for brain injury: The enteric nervous system as a potential cell source. Brain Pathology, 2022, 32, .	4.1	3
72	Controlling for lesions, kinematics and physiological noise: impact on fMRI results of spastic post-stroke patients. MethodsX, 2020, 7, 101056.	1.6	1

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