

# Joseph McIntyre

## List of Publications by Year in descending order

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69  
papers

3,360  
citations

172207

29  
h-index

149479

56  
g-index

70  
all docs

70  
docs citations

70  
times ranked

2101  
citing authors

#	ARTICLE	IF	CITATIONS
1	Does the brain model Newton's laws?. <i>Nature Neuroscience</i> , 2001, 4, 693-694.	7.1	440
2	Visuo-motor coordination and internal models for object interception. <i>Experimental Brain Research</i> , 2009, 192, 571-604.	0.7	217
3	Servo Hypotheses for the Biological Control of Movement. <i>Journal of Motor Behavior</i> , 1993, 25, 193-202.	0.5	192
4	Viewer-Centered Frame of Reference for Pointing to Memorized Targets in Three-Dimensional Space. <i>Journal of Neurophysiology</i> , 1997, 78, 1601-1618.	0.9	180
5	Short-Term Memory for Reaching to Visual Targets: Psychophysical Evidence for Body-Centered Reference Frames. <i>Journal of Neuroscience</i> , 1998, 18, 8423-8435.	1.7	173
6	A modular theory of multisensory integration for motor control. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 1.	1.2	137
7	The control of stable postures in the multijoint arm. <i>Experimental Brain Research</i> , 1996, 110, 248-64.	0.7	135
8	Anticipating the Effects of Gravity When Intercepting Moving Objects: Differentiating Up and Down Based on Nonvisual Cues. <i>Journal of Neurophysiology</i> , 2005, 94, 4471-4480.	0.9	117
9	Kinematic strategies and sensorimotor transformations in the wiping movements of frogs. <i>Journal of Neurophysiology</i> , 1989, 62, 750-767.	0.9	115
10	Kinematic and dynamic processes for the control of pointing movements in humans revealed by short-term exposure to microgravity. <i>Neuroscience</i> , 2005, 135, 371-383.	1.1	102
11	Effect of gravity on human spontaneous 10-Hz electroencephalographic oscillations during the arrest reaction. <i>Brain Research</i> , 2006, 1121, 104-116.	1.1	94
12	Internal models and prediction of visual gravitational motion. <i>Vision Research</i> , 2008, 48, 1532-1538.	0.7	93
13	Hand trajectories of vertical arm movements in one- G and zero- G environments. <i>Experimental Brain Research</i> , 1998, 120, 496-502.	0.7	81
14	Viewer-centered and body-centered frames of reference in direct visuomotor transformations. <i>Experimental Brain Research</i> , 1999, 129, 201-210.	0.7	68
15	Cognitive allocentric representations of visual space shape pointing errors. <i>Experimental Brain Research</i> , 2002, 147, 426-436.	0.7	66
16	Gravity Influences Top-Down Signals in Visual Processing. <i>PLoS ONE</i> , 2014, 9, e82371.	1.1	60
17	Multimodal reference frame for the planning of vertical arms movements. <i>Neuroscience Letters</i> , 2007, 423, 211-215.	1.0	58
18	Do novel gravitational environments alter the grip-force/load-force coupling at the fingertips?. <i>Experimental Brain Research</i> , 2005, 163, 324-334.	0.7	54

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19	When Up Is Down in Og: How Gravity Sensing Affects the Timing of Interceptive Actions. <i>Journal of Neuroscience</i> , 2012, 32, 1969-1973.	1.7	53
20	Reference frames and internal models for visuo-manual coordination: what can we learn from microgravity experiments?. <i>Brain Research Reviews</i> , 1998, 28, 143-154.	9.1	52
21	Movement Stability Under Uncertain Internal Models of Dynamics. <i>Journal of Neurophysiology</i> , 2010, 104, 1301-1313.	0.9	52
22	Gravity affects the preferred vertical and horizontal in visual perception of orientation. <i>NeuroReport</i> , 1999, 10, 1085-1089.	0.6	45
23	Analysis of Pointing Errors Reveals Properties of Data Representations and Coordinate Transformations Within the Central Nervous System. <i>Neural Computation</i> , 2000, 12, 2823-2855.	1.3	45
24	Behavioral and Neural Correlates of Communication via Pointing. <i>PLoS ONE</i> , 2011, 6, e17719.	1.1	45
25	Viewing another person's body as a target object: A behavioural and PET study of pointing. <i>Neuropsychologia</i> , 2012, 50, 1801-1813.	0.7	43
26	Gait transitions in simulated reduced gravity. <i>Journal of Applied Physiology</i> , 2011, 110, 781-788.	1.2	38
27	Perception and Reproduction of Force Direction in the Horizontal Plane. <i>Journal of Neurophysiology</i> , 2003, 90, 3040-3053.	0.9	37
28	Weightlessness alters up/down asymmetries in the perception of self-motion. <i>Experimental Brain Research</i> , 2013, 226, 95-106.	0.7	37
29	Spatial, not temporal cues drive predictive orienting movements during navigation. <i>NeuroReport</i> , 2000, 11, 775-778.	0.6	36
30	Internal reference frames for representation and storage of visual information: the role of gravity.. <i>Acta Astronautica</i> , 2001, 49, 111-121.	1.7	30
31	Necessity is the Mother of Invention: Reconstructing Missing Sensory Information in Multiple, Concurrent Reference Frames for Eye-Hand Coordination. <i>Journal of Neuroscience</i> , 2011, 31, 1397-1409.	1.7	30
32	Two Reference Frames for Visual Perception in Two Gravity Conditions. <i>Perception</i> , 2005, 34, 545-555.	0.5	29
33	Estimating time to contact and impact velocity when catching an accelerating object with the hand.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2003, 29, 219-237.	0.7	28
34	Central Processes Amplify and Transform Anisotropies of the Visual System in a Test of Visual-Haptic Coordination. <i>Journal of Neuroscience</i> , 2008, 28, 1246-1261.	1.7	24
35	Hand trajectory formation during whole body reaching movements in man. <i>Neuroscience Letters</i> , 1998, 240, 159-162.	1.0	23
36	Physiological Basis of Limb-Impedance Modulation During Free and Constrained Movements. <i>Journal of Neurophysiology</i> , 2008, 100, 2577-2588.	0.9	22

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37	Measurements of human force control during a constrained arm motion using a force-actuated joystick. <i>Journal of Neurophysiology</i> , 1995, 73, 1201-1222.	0.9	21
38	Egocentric and allocentric reference frames for catching a falling object. <i>Experimental Brain Research</i> , 2010, 201, 653-662.	0.7	20
39	The perception of visually presented yaw and pitch turns: Assessing the contribution of motion, static, and cognitive cues. <i>Perception &amp; Psychophysics</i> , 2006, 68, 1338-1350.	2.3	17
40	Minimum jerk for human catching movements in 3D. , 2012, , .		16
41	Independence of bilateral symmetry detection from a gravitational reference frame. <i>Spatial Vision</i> , 1995, 9, 127-137.	1.4	15
42	Characterization of the NEURARM bio-inspired joint position and stiffness open loop controller. , 2008, , .		15
43	Task Dependency of Grip Stiffnessâ€”A Study of Human Grip Force and Grip Stiffness Dependency during Two Different Tasks with Same Grip Forces. <i>PLoS ONE</i> , 2013, 8, e80889.	1.1	15
44	Persistent deterioration of visuospatial performance in spaceflight. <i>Scientific Reports</i> , 2021, 11, 9590.	1.6	14
45	When Kinesthesia Becomes Visual: A Theoretical Justification for Executing Motor Tasks in Visual Space. <i>PLoS ONE</i> , 2013, 8, e68438.	1.1	14
46	Estimating time to contact and impact velocity when catching an accelerating object with the hand. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2003, 29, 219-37.	0.7	14
47	Does gravity play an essential role in the asymmetrical visual perception of vertical and horizontal line length?. <i>Acta Astronautica</i> , 2001, 49, 123-130.	1.7	12
48	A robotic model to investigate human motor control. <i>Biological Cybernetics</i> , 2011, 105, 1-19.	0.6	12
49	Physiological modules for generating discrete and rhythmic movements: action identification by a dynamic recurrent neural network. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 100.	1.2	12
50	Stability constraints for the distributed control of motor behavior. <i>Neural Networks</i> , 1993, 6, 1045-1059.	3.3	11
51	The kinelite project. <i>Acta Astronautica</i> , 1998, 43, 277-289.	1.7	11
52	Arm path fragmentation and spatiotemporal features of hand reaching in healthy subjects and stroke patients. , 2010, 2010, 5242-5.		11
53	Gravity-dependent estimates of object mass underlie the generation of motor commands for horizontal limb movements. <i>Journal of Neurophysiology</i> , 2014, 112, 384-392.	0.9	11
54	A strategy of faster movements used by elderly humans to lift objects of increasing weight in ecological context. <i>Neuroscience</i> , 2017, 357, 384-399.	1.1	10

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55	Physiological modules for generating discrete and rhythmic movements: component analysis of EMG signals. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 169.	1.2	9
56	Eye-hand coordination when the body moves: Dynamic egocentric and exocentric sensory encoding. <i>Neuroscience Letters</i> , 2012, 513, 78-83.	1.0	8
57	Keep your head on straight: Facilitating sensori-motor transformations for eye-hand coordination. <i>Neuroscience</i> , 2013, 248, 88-94.	1.1	8
58	Gravity and spatial orientation in virtual 3D-mazes. <i>Journal of Vestibular Research: Equilibrium and Orientation</i> , 2003, 13, 273-86.	0.8	8
59	A 6 D.O.F. opto-inertial tracker for virtual reality experiments in microgravity. <i>Acta Astronautica</i> , 2001, 49, 451-462.	1.7	5
60	Perception of affordances during long-term exposure to weightlessness in the International Space station. <i>Cognitive Processing</i> , 2015, 16, 171-174.	0.7	4
61	The visual encoding of purely proprioceptive intermanual tasks is due to the need of transforming joint signals, not to their interhemispheric transfer. <i>Journal of Neurophysiology</i> , 2017, 118, 1598-1608.	0.9	4
62	Perception of Affordance during Short-Term Exposure to Weightlessness in Parabolic Flight. <i>PLoS ONE</i> , 2016, 11, e0153598.	1.1	4
63	Does the brain make waves to improve stability?. <i>Brain Research Bulletin</i> , 2008, 75, 717-722.	1.4	3
64	How Tilting the Head Interferes With Eye-Hand Coordination: The Role of Gravity in Visuo-Proprioceptive, Cross-Modal Sensory Transformations. <i>Frontiers in Integrative Neuroscience</i> , 2022, 16, 788905.	1.0	3
65	Constrained motion control on a hemispherical surface: path planning. <i>Journal of Neurophysiology</i> , 2014, 111, 954-968.	0.9	2
66	Reference frames and internal models studied in microgravity. , 2001, , .		0
67	GRIP: Dexterous Manipulation of Objects in Weightlessness. , 0, , .		0
68	Human Manipulation Segmentation and Characterization Based on Instantaneous Work. <i>Advances in Intelligent Systems and Computing</i> , 2020, , 343-354.	0.5	0
69	Regulating Grip Forces through EMG-Controlled Protheses for Transradial Amputees. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 11199.	1.3	0