

# Charalambos Papaxanthis

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,641  
citations

361413

20  
h-index

330143

37  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1192  
citing authors

#	ARTICLE	IF	CITATIONS
1	Motor Learning Without Doing: Trial-by-Trial Improvement in Motor Performance During Mental Training. <i>Journal of Neurophysiology</i> , 2010, 104, 774-783.	1.8	183
2	Neural plasticity during motor learning with motor imagery practice: Review and perspectives. <i>Neuroscience</i> , 2017, 341, 61-78.	2.3	169
3	The Inactivation Principle: Mathematical Solutions Minimizing the Absolute Work and Biological Implications for the Planning of Arm Movements. <i>PLoS Computational Biology</i> , 2008, 4, e1000194.	3.2	120
4	Trajectories of arm pointing movements on the sagittal plane vary with both direction and speed. <i>Experimental Brain Research</i> , 2003, 148, 498-503.	1.5	95
5	The sensorimotor and cognitive integration of gravity. <i>Brain Research Reviews</i> , 1998, 28, 92-101.	9.0	84
6	Motor cortical plasticity induced by motor learning through mental practice. <i>Frontiers in Behavioral Neuroscience</i> , 2015, 9, 105.	2.0	84
7	A prolonged motor imagery session alter imagined and actual movement durations: Potential implications for neurorehabilitation. <i>Behavioural Brain Research</i> , 2016, 297, 67-75.	2.2	72
8	Direction-dependent arm kinematics reveal optimal integration of gravity cues. <i>ELife</i> , 2016, 5, .	6.0	64
9	Energy-related optimal control accounts for gravitational load: comparing shoulder, elbow, and wrist rotations. <i>Journal of Neurophysiology</i> , 2014, 111, 4-16.	1.8	60
10	Gait-dependent motor memory facilitation in covert movement execution. <i>Cognitive Brain Research</i> , 2004, 22, 67-75.	3.0	58
11	New evidence of corticospinal network modulation induced by motor imagery. <i>Journal of Neurophysiology</i> , 2016, 115, 1279-1288.	1.8	55
12	Mentally Simulated Motor Actions in Children. <i>Developmental Neuropsychology</i> , 2009, 34, 356-367.	1.4	52
13	The Temporal Structure of Vertical Arm Movements. <i>PLoS ONE</i> , 2011, 6, e22045.	2.5	48
14	Sensorimotor adaptation of point-to-point arm movements after spaceflight: the role of internal representation of gravity force in trajectory planning. <i>Journal of Neurophysiology</i> , 2011, 106, 620-629.	1.8	45
15	Muscle Fatigue Affects Mental Simulation of Action. <i>Journal of Neuroscience</i> , 2011, 31, 10712-10720.	3.6	45
16	Spinal plasticity with motor imagery practice. <i>Journal of Physiology</i> , 2019, 597, 921-934.	2.9	44
17	The influence of eye movements on the temporal features of executed and imagined arm movements. <i>Brain Research</i> , 2008, 1187, 95-102.	2.2	43
18	The influence of imagery capacity in motor performance improvement. <i>Experimental Brain Research</i> , 2017, 235, 3049-3057.	1.5	35

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19	Visual gravity influences arm movement planning. <i>Journal of Neurophysiology</i> , 2012, 107, 3433-3445.	1.8	32
20	The Relation between Geometry and Time in Mental Actions. <i>PLoS ONE</i> , 2012, 7, e51191.	2.5	31
21	An acute session of motor imagery training induces use-dependent plasticity. <i>Scientific Reports</i> , 2019, 9, 20002.	3.3	28
22	A cross-species neural integration of gravity for motor optimization. <i>Science Advances</i> , 2021, 7, .	10.3	28
23	Acquisition and consolidation processes following motor imagery practice. <i>Scientific Reports</i> , 2021, 11, 2295.	3.3	22
24	Interhemispheric Inhibition during Mental Actions of Different Complexity. <i>PLoS ONE</i> , 2013, 8, e56973.	2.5	18
25	Prism adaptation by mental practice. <i>Cortex</i> , 2013, 49, 2249-2259.	2.4	16
26	Initial information prior to movement onset influences kinematics of upward arm pointing movements. <i>Journal of Neurophysiology</i> , 2016, 116, 1673-1683.	1.8	15
27	Coherent Multimodal Sensory Information Allows Switching between Gravitoinertial Contexts. <i>Frontiers in Physiology</i> , 2017, 8, 290.	2.8	12
28	Motor Planning of Vertical Arm Movements in Healthy Older Adults: Does Effort Minimization Persist With Aging?. <i>Frontiers in Aging Neuroscience</i> , 2020, 12, 37.	3.4	11
29	Time-of-day effects on skill acquisition and consolidation after physical and mental practices. <i>Scientific Reports</i> , 2022, 12, 5933.	3.3	11
30	Motor Imagery in Unipolar Major Depression. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 413.	2.0	10
31	Muscle effort is best minimized by the right-dominant arm in the gravity field. <i>Journal of Neurophysiology</i> , 2022, 127, 1117-1126.	1.8	10
32	Mental Representation of Arm Motion Dynamics in Children and Adolescents. <i>PLoS ONE</i> , 2013, 8, e73042.	2.5	9
33	Movement detection thresholds reveal proprioceptive impairments in developmental dyslexia. <i>Scientific Reports</i> , 2021, 11, 299.	3.3	7
34	Pain, No Gain: Acute Pain Interrupts Motor Imagery Processes and Affects Mental Training-Induced Plasticity. <i>Cerebral Cortex</i> , 2022, 32, 640-651.	2.9	5
35	Smoothness Discriminates Physical from Motor Imagery Practice of Arm Reaching Movements. <i>Neuroscience</i> , 2022, 483, 24-31.	2.3	5
36	Action representation deficits in adolescents with developmental dyslexia. <i>Journal of Neuropsychology</i> , 2021, 15, 215-234.	1.4	3

#	ARTICLE	IF	CITATIONS
37	Effects of Simulated Microgravity and Hypergravity Conditions on Arm Movements in Normogravity. <i>Frontiers in Neural Circuits</i> , 2021, 15, 750176.	2.8	3