

Denis Mottet

List of Publications by Year in descending order

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64
papers

2,063
citations

236925

25
h-index

265206

42
g-index

87
all docs

87
docs citations

87
times ranked

2249
citing authors

#	ARTICLE	IF	CITATIONS
1	Rehabilitation of arm function after stroke. Literature review. <i>Annals of Physical and Rehabilitation Medicine</i> , 2009, 52, 269-293.	2.3	275
2	The dynamics of goal-directed rhythmical aiming. <i>Biological Cybernetics</i> , 1999, 80, 235-245.	1.3	132
3	The Contribution of Kinematics in the Assessment of Upper Limb Motor Recovery Early After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 4-12.	2.9	111
4	Energy Cost and Stride Duration Variability at Preferred Transition Gait Speed Between Walking and Running. <i>Applied Physiology, Nutrition, and Metabolism</i> , 1996, 21, 471-480.	1.7	87
5	Adaptation in serious games for upper-limb rehabilitation: an approach to improve training outcomes. <i>User Modeling and User-Adapted Interaction</i> , 2015, 25, 65-98.	3.8	85
6	The role of cocontraction in the impairment of movement accuracy with fatigue. <i>Experimental Brain Research</i> , 2008, 185, 151-156.	1.5	78
7	Behind Fitts's law: kinematic patterns in goal-directed movements. <i>International Journal of Human Computer Studies</i> , 2004, 61, 811-821.	5.6	77
8	A review of 3D human pose estimation algorithms for markerless motion capture. <i>Computer Vision and Image Understanding</i> , 2021, 212, 103275.	4.7	74
9	Two-handed performance of a rhythmical Fitts task by individuals and dyads.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2001, 27, 1275-1286.	0.9	62
10	Non-Linear Analyses of Heart Rate Variability During Heavy Exercise and Recovery in Cyclists. <i>International Journal of Sports Medicine</i> , 2006, 27, 780-785.	1.7	57
11	Two-handed performance of a rhythmical Fitts task by individuals and dyads.. <i>Journal of Experimental Psychology: Human Perception and Performance</i> , 2001, 27, 1275-1286.	0.9	47
12	Motor Recovery of the Ipsilesional Upper Limb in Subacute Stroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2013, 94, 2283-2290.	0.9	45
13	Innovative technologies applied to sensorimotor rehabilitation after stroke. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014, 57, 543-551.	2.3	42
14	Kinect-based assessment of proximal arm non-use after a stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 104.	4.6	42
15	Navigation as multiscale pointing. , 1999, , .		39
16	Muscular fatigue increases signal-dependent noise during isometric force production. <i>Neuroscience Letters</i> , 2008, 437, 154-157.	2.1	39
17	Factors responsible for force steadiness impairment with fatigue. <i>Muscle and Nerve</i> , 2009, 40, 1019-1032.	2.2	38
18	Dissociating motor learning from recovery in exoskeleton training post-stroke. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2018, 15, 89.	4.6	35

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19	Isokinetic muscle strengthening after acquired cerebral damage: A literature review. <i>Annals of Physical and Rehabilitation Medicine</i> , 2012, 55, 279-291.	2.3	34
20	The regulation of release parameters in underarm precision throwing. <i>Journal of Sports Sciences</i> , 2000, 18, 375-382.	2.0	33
21	Dynamics of trajectory formation and speed/accuracy trade-offs. <i>Behavioral and Brain Sciences</i> , 1997, 20, 303-304.	0.7	32
22	Informational constraints in human precision aiming. <i>Neuroscience Letters</i> , 2002, 333, 141-145.	2.1	29
23	Adaptation of motor behavior to preserve task success in the presence of muscle fatigue. <i>Neuroscience</i> , 2009, 161, 773-786.	2.3	28
24	Rehabilitation of the upper arm early after stroke: Video games versus conventional rehabilitation. A randomized controlled trial. <i>Annals of Physical and Rehabilitation Medicine</i> , 2020, 63, 173-180.	2.3	28
25	Dynamic stability of locomotor respiratory coupling during cycling in humans. <i>Neuroscience Letters</i> , 2005, 383, 333-338.	2.1	27
26	Somatosensory-Related Limitations for Bimanual Coordination After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 507-515.	2.9	27
27	The dynamics of rhythmical aiming in 2D task space: Relation between geometry and kinematics under examination. <i>Human Movement Science</i> , 2001, 20, 213-241.	1.4	26
28	The dynamics of human isometric pointing movements under varying accuracy requirements. <i>Neuroscience Letters</i> , 2000, 286, 49-52.	2.1	24
29	Proximal arm non-use when reaching after a stroke. <i>Neuroscience Letters</i> , 2017, 657, 91-96.	2.1	24
30	Degraded postural performance after muscle fatigue can be compensated by skin stimulation. <i>Gait and Posture</i> , 2011, 33, 686-689.	1.4	23
31	Beyond the 10-bit Barrier: Fitts's Law in Multi-Scale Electronic Worlds. , 2001, , 573-587.		21
32	Changes in Bimanual Coordination During the First 6 Weeks After Moderate Hemiparetic Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2013, 27, 251-259.	2.9	20
33	A Note on Data Smoothing for Movement Analysis: The Relevance of a Nonlinear Method. <i>Journal of Motor Behavior</i> , 1994, 26, 51-55.	0.9	19
34	Behavioral Impact of Unisensory and Multisensory Audio-Tactile Events: Pros and Cons for Interlimb Coordination in Juggling. <i>PLoS ONE</i> , 2012, 7, e32308.	2.5	19
35	Trajectory formation principles are the same after mild or moderate stroke. <i>PLoS ONE</i> , 2017, 12, e0173674.	2.5	19
36	Fitts' law in two-dimensional task space. <i>Experimental Brain Research</i> , 1994, 100, 144-8.	1.5	18

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37	Upper Limb Isokinetic Strengthening Versus Passive Mobilization in Patients With Chronic Stroke: A Randomized Controlled Trial. Archives of Physical Medicine and Rehabilitation, 2018, 99, 321-328.	0.9	18
38	Effects of active vs. passive recovery on repeated rugby-specific exercises. Journal of Science and Medicine in Sport, 2010, 13, 350-355.	1.3	17
39	Influence of noise on the averaged false neighbors method for analyzing time series. Physica D: Nonlinear Phenomena, 2006, 223, 229-241.	2.8	16
40	Eye-Hand Coordination in Rhythmical Pointing. Journal of Motor Behavior, 2009, 41, 294-304.	0.9	16
41	People post-stroke perceive movement fluency in virtual reality. Experimental Brain Research, 2012, 218, 1-8.	1.5	16
42	Asymmetries of bilateral isometric force matching with movement intention and unilateral fatigue. Experimental Brain Research, 2014, 232, 1699-1706.	1.5	13
43	Recovering arm function in chronic stroke patients using combined anodal HD-tDCS and virtual reality therapy (ReArm): a study protocol for a randomized controlled trial. Trials, 2021, 22, 747.	1.6	13
44	Modified Brain Activations of the Nondamaged Hemisphere During Ipsilesional Upper-Limb Movement in Persons With Initial Severe Motor Deficits Poststroke. Neurorehabilitation and Neural Repair, 2018, 32, 34-45.	2.9	11
45	Digital-pheromone based difficulty adaptation in post-stroke therapeutic games. , 2012, , .		10
46	Validity and Reliability of Kinect v2 for Quantifying Upper Body Kinematics during Seated Reaching. Sensors, 2022, 22, 2735.	3.8	10
47	Segregated audio-tactile events destabilize the bimanual coordination of distinct rhythms. Experimental Brain Research, 2012, 219, 409-419.	1.5	9
48	Dissociating Sensorimotor Recovery and Compensation During Exoskeleton Training Following Stroke. Frontiers in Human Neuroscience, 2021, 15, 645021.	2.0	9
49	Trajectory formation and speed-accuracy trade-off in aiming movements. Comptes Rendus De L'Académie Des Sciences Série 3, Sciences De La Vie, 1998, 321, 377-383.	0.8	8
50	Effect of delay on dynamic targets tracking performance and behavior in virtual environment. , 2010, , .		8
51	Perceptuo-motor compatibility governs multisensory integration in bimanual coordination dynamics. Experimental Brain Research, 2016, 234, 463-474.	1.5	8
52	MACVIA-LR (FIGHTING CHRONIC DISEASES FOR ACTIVE AND HEALTHY AGEING IN LANGUEDOC-ROUSSILLON): A SUCCESS STORY OF THE EUROPEAN INNOVATION PARTNERSHIP ON ACTIVE AND HEALTHY AGEING. Journal of Frailty & Aging, the, 2016, 5, 1-9.	1.3	8
53	A limit-cycle model of leg movements in cross-country skiing and its adjustments with fatigue. Human Movement Science, 2010, 29, 590-604.	1.4	7
54	Kinematics in the brain: unmasking motor control strategies?. Experimental Brain Research, 2017, 235, 2639-2651.	1.5	7

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55	Self-Quantification Systems to Support Physical Activity: From Theory to Implementation Principles. International Journal of Environmental Research and Public Health, 2020, 17, 9350.	2.6	7
56	Dynamic Invariance in Goal-Directed Aiming. Ecological Psychology, 2004, 16, 55-60.	1.1	4
57	Stability and phase locking in human soccer juggling. Neuroscience Letters, 2004, 360, 45-48.	2.1	4
58	The reserve of joint torque determines movement coordination. Scientific Reports, 2021, 11, 23008.	3.3	4
59	Recovery of bimanual coordination is delayed after left hemispheric and/or purely cortical stroke lesions. Journal of the Neurological Sciences, 2013, 333, e230.	0.6	1
60	Validation of a Simple Metabolic-Equivalent-of-Task Sensor Based on a Low-Cost NFC RFID Wristband. IEEE Sensors Journal, 2019, 19, 353-360.	4.7	1
61	EFFECT OF NOISE ON THE AVERAGED FALSE NEIGHBORS METHOD APPLIED TO SIMULATED AND EXPERIMENTAL CHAOTIC TIMES SERIES. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2006, 39, 286-290.	0.4	0
62	Isokinetic program in stroke survivors with chronic upper limb hemiparesis. Annals of Physical and Rehabilitation Medicine, 2011, 54, e138-e139.	2.3	0
63	Multisensory integration enhances coordination: The necessity of a phasing matching between cross-modal events and movements. Seeing and Perceiving, 2012, 25, 212-213.	0.3	0
64	A Task-Dynamic Approach to Throwing Skills. , 2019, , 79-82.		0