

# Jean-Louis Thonnard

## List of Publications by Year in descending order

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Version: 2024-02-01

101  
papers

4,306  
citations

109264

35  
h-index

123376

61  
g-index

105  
all docs

105  
docs citations

105  
times ranked

3769  
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of Cutaneous Feedback in Maintaining a Secure Grip During Manipulation of Hand-Held Objects. <i>Journal of Neurophysiology</i> , 2003, 89, 665-671.	0.9	291
2	Dissociating the Role of Ventral and Dorsal Premotor Cortex in Precision Grasping. <i>Journal of Neuroscience</i> , 2006, 26, 2260-2268.	1.7	288
3	The ABILHAND Questionnaire as a Measure of Manual Ability in Chronic Stroke Patients. <i>Stroke</i> , 2001, 32, 1627-1634.	1.0	241
4	Finger pad friction and its role in grip and touch. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20120467.	1.5	213
5	ABILHAND: A Rasch-built measure of manual ability. <i>Archives of Physical Medicine and Rehabilitation</i> , 1998, 79, 1038-1042.	0.5	178
6	The cutaneous contribution to adaptive precision grip. <i>Trends in Neurosciences</i> , 2004, 27, 637-643.	4.2	166
7	Temporal Dissociation between Hand Shaping and Grip Force Scaling in the Anterior Intraparietal Area. <i>Journal of Neuroscience</i> , 2007, 27, 3974-3980.	1.7	124
8	Dynamics of fingertip contact during the onset of tangential slip. <i>Journal of the Royal Society Interface</i> , 2014, 11, 20140698.	1.5	118
9	Correlation between impaired dexterity and corticospinal tract dysgenesis in congenital hemiplegia. <i>Brain</i> , 2003, 126, 732-747.	3.7	116
10	Texture-induced vibrations in the forearm during tactile exploration. <i>Frontiers in Behavioral Neuroscience</i> , 2012, 6, 37.	1.0	110
11	ACTIVLIM: A Rasch-built measure of activity limitations in children and adults with neuromuscular disorders. <i>Neuromuscular Disorders</i> , 2007, 17, 459-469.	0.3	94
12	Optimal Integration of Gravity in Trajectory Planning of Vertical Pointing Movements. <i>Journal of Neurophysiology</i> , 2009, 102, 786-796.	0.9	72
13	Tactile roughness discrimination of the finger pad relies primarily on vibration sensitive afferents not necessarily located in the hand. <i>Behavioural Brain Research</i> , 2012, 229, 273-279.	1.2	72
14	The effects of a change in gravity on the dynamics of prehension. <i>Experimental Brain Research</i> , 2003, 148, 533-540.	0.7	71
15	Surface strain measurements of fingertip skin under shearing. <i>Journal of the Royal Society Interface</i> , 2016, 13, 20150874.	1.5	68
16	Physical Factors Influencing Pleasant Touch during Tactile Exploration. <i>PLoS ONE</i> , 2013, 8, e79085.	1.1	67
17	Single Session of Dual-tDCS Transiently Improves Precision Grip and Dexterity of the Paretic Hand After Stroke. <i>Neurorehabilitation and Neural Repair</i> , 2014, 28, 100-110.	1.4	67
18	A continuous measure of fingertip friction during precision grip. <i>Journal of Neuroscience Methods</i> , 2009, 179, 224-229.	1.3	63

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19	Influence of structural pelvic disorders during standing and walking in adolescents with idiopathic scoliosis. <i>Spine Journal</i> , 2005, 5, 427-433.	0.6	60
20	ABILOCO: A Rasch-Built 13-Item Questionnaire to Assess Locomotion Ability in Stroke Patients. <i>Archives of Physical Medicine and Rehabilitation</i> , 2008, 89, 284-290.	0.5	59
21	Corticospinal Dysgenesis and Upper-Limb Deficits in Congenital Hemiplegia: A Diffusion Tensor Imaging Study. <i>Pediatrics</i> , 2007, 120, e1502-e1511.	1.0	58
22	Hand Functioning in Children with Cerebral Palsy. <i>Frontiers in Neurology</i> , 2014, 5, 48.	1.1	57
23	Touch uses frictional cues to discriminate flat materials. <i>Scientific Reports</i> , 2016, 6, 25553.	1.6	57
24	Functional reorganization of brain in children affected with congenital hemiplegia: fMRI study. <i>NeuroImage</i> , 2003, 20, 289-301.	2.1	55
25	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
26	Hand impairments and their relationship with manual ability in children with cerebral palsy. <i>Acta Dermato-Venereologica</i> , 2007, 39, 708-714.	0.6	54
27	The tactile perception of transient changes in friction. <i>Journal of the Royal Society Interface</i> , 2017, 14, 20170641.	1.5	50
28	Tactile roughness discrimination threshold is unrelated to tactile spatial acuity. <i>Behavioural Brain Research</i> , 2010, 208, 473-478.	1.2	45
29	Validation of the ABILHAND questionnaire as a measure of manual ability in patients with rheumatoid arthritis. <i>Annals of the Rheumatic Diseases</i> , 2007, 66, 1098-1105.	0.5	43
30	Activity limitations in patients with neuromuscular disorders: A responsiveness study of the ACTVLIM questionnaire. <i>Neuromuscular Disorders</i> , 2009, 19, 99-103.	0.3	43
31	Satisfaction With Activity and Participation and Its Relationships With Body Functions, Activities, or Environmental Factors in Stroke Patients. <i>Archives of Physical Medicine and Rehabilitation</i> , 2011, 92, 1404-1410.	0.5	43
32	ACTVLIM-Stroke: A Crosscultural Rasch-Built Scale of Activity Limitations in Patients With Stroke. <i>Stroke</i> , 2012, 43, 815-823.	1.0	41
33	ABILOCO-kids: A rasch-built 10-item questionnaire for assessing locomotion ability in children with cerebral palsy. <i>Journal of Rehabilitation Medicine</i> , 2008, 40, 823-830.	0.8	40
34	Altered Gravity Highlights Central Pattern Generator Mechanisms. <i>Journal of Neurophysiology</i> , 2008, 100, 2819-2824.	0.9	40
35	High-resolution imaging of skin deformation shows that afferents from human fingertips signal slip onset. <i>ELife</i> , 2021, 10, .	2.8	40
36	Functional relevance of abnormal fMRI activation pattern after unilateral schizencephaly. <i>NeuroReport</i> , 2002, 13, 1821-1824.	0.6	39

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37	How many response levels do children distinguish on faces scales for pain assessment?. <i>European Journal of Pain</i> , 2009, 13, 641-648.	1.4	39
38	Tactile spatial resolution measured manually: A validation study. <i>Somatosensory &amp; Motor Research</i> , 2007, 24, 111-114.	0.4	37
39	Perception of partial slips under tangential loading of the fingertip. <i>Scientific Reports</i> , 2018, 8, 7032.	1.6	37
40	A Very Fast Time Scale of Human Motor Adaptation: Within Movement Adjustments of Internal Representations during Reaching. <i>ENeuro</i> , 2020, 7, ENEURO.0149-19.2019.	0.9	34
41	Towards human exploration of space: the THESEUS review series on neurophysiology research priorities. <i>Npj Microgravity</i> , 2016, 2, 16023.	1.9	33
42	EEG frequency tagging to explore the cortical activity related to the tactile exploration of natural textures. <i>Scientific Reports</i> , 2016, 6, 20738.	1.6	31
43	Physical Factors Influencing Pleasant Touch during Passive Fingertip Stimulation. <i>PLoS ONE</i> , 2014, 9, e101361.	1.1	31
44	Age-related changes in tactile spatial resolution from 6 to 16 years old. <i>Somatosensory &amp; Motor Research</i> , 2006, 23, 83-87.	0.4	30
45	Chronic demyelinating hypertrophic brachial plexus neuropathy. <i>Muscle and Nerve</i> , 2000, 23, 283-288.	1.0	29
46	Rasch-Built Measure of Pleasant Touch through Active Fingertip Exploration. <i>Frontiers in Neurorobotics</i> , 2012, 6, 5.	1.6	29
47	Brisk walking can promote functional recovery in chronic stroke patients. <i>Journal of Rehabilitation Medicine</i> , 2013, 45, 854-859.	0.8	26
48	Outcome evaluation of the hand and wrist according to the International Classification of Functioning, Disability, and Health. <i>Hand Clinics</i> , 2003, 19, 371-378.	0.4	25
49	Satis-stroke: A satisfaction measure of activities and participation in the actual environment experienced by patients with chronic stroke. <i>Journal of Rehabilitation Medicine</i> , 2008, 40, 836-843.	0.8	24
50	Measuring changes of manual ability with <sc>ABILHAND</sc>â€š following intensive training for children with unilateral cerebral palsy. <i>Developmental Medicine and Child Neurology</i> , 2017, 59, 505-511.	1.1	24
51	ACTIVLIM-CP a new Rasch-built measure of global activity performance for children with cerebral palsy. <i>Research in Developmental Disabilities</i> , 2017, 60, 285-294.	1.2	23
52	Simple and Reliable Method to Estimate the Fingertip Static Coefficient of Friction in Precision Grip. <i>IEEE Transactions on Haptics</i> , 2016, 9, 492-498.	1.8	20
53	Cognitive-Motor Interference While Grasping, Lifting and Holding Objects. <i>PLoS ONE</i> , 2013, 8, e80125.	1.1	20
54	Note Impact of the surface slipperiness of grasped objects on their subsequent acceleration. <i>Neuropsychologia</i> , 1999, 37, 751-756.	0.7	19

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55	Predictive Mechanisms Control Grip Force after Impact in Self-Triggered Perturbations. <i>Journal of Motor Behavior</i> , 2009, 41, 411-417.	0.5	19
56	Predictive and Reactive Control of Precision Grip in Children With Congenital Hemiplegia. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 318-327.	1.4	19
57	Tactile spatial resolution in unilateral brain lesions and its correlation with digital dexterity. <i>Journal of Rehabilitation Medicine</i> , 2011, 43, 251-256.	0.8	19
58	Fingerpad contact evolution under electrovibration. <i>Journal of the Royal Society Interface</i> , 2019, 16, 20190166.	1.5	19
59	Sensorimotor Mapping for Anticipatory Grip Force Modulation. <i>Journal of Neurophysiology</i> , 2010, 104, 1401-1408.	0.9	17
60	Functional recovery after stroke in Benin: A six-month follow-up study. <i>Journal of Rehabilitation Medicine</i> , 2016, 48, 671-675.	0.8	17
61	Long-Latency Feedback Coordinates Upper-Limb and Hand Muscles during Object Manipulation Tasks. <i>ENeuro</i> , 2016, 3, ENEURO.0129-15.2016.	0.9	17
62	Measure of experimental pain using Rasch analysis. <i>European Journal of Pain</i> , 2007, 11, 469-474.	1.4	16
63	Biological inflammatory markers mediate the effect of preoperative pain-related behaviours on postoperative analgesics requirements. <i>BMC Anesthesiology</i> , 2015, 15, 183.	0.7	16
64	How robust is ACTIVLIM for the follow-up of activity limitations in patients with neuromuscular diseases?. <i>Neuromuscular Disorders</i> , 2016, 26, 211-220.	0.3	16
65	Measuring Participation After Stroke in Africa: Development of the Participation Measurement Scale. <i>Archives of Physical Medicine and Rehabilitation</i> , 2018, 99, 652-659.	0.5	16
66	Paradoxical effect of digital anaesthesia on force and corticospinal excitability. <i>NeuroReport</i> , 2005, 16, 259-262.	0.6	15
67	Optimal use of limb mechanics distributes control during bimanual tasks. <i>Journal of Neurophysiology</i> , 2018, 119, 921-932.	0.9	15
68	Dexterous Manipulation During Rhythmic Arm Movements in Mars, Moon, and Micro-Gravity. <i>Frontiers in Physiology</i> , 2018, 9, 938.	1.3	15
69	PWC75%/kg, a Fitness Index Not Linked to Resting Heart Rate: Testing Procedure and Reference Values. <i>Archives of Physical Medicine and Rehabilitation</i> , 2012, 93, 1196-1200.	0.5	14
70	The effect of repetitive rhythmic precision grip task-oriented rehabilitation in chronic stroke patients. <i>International Journal of Rehabilitation Research</i> , 2013, 36, 81-87.	0.7	14
71	Determinants of Social Participation at 1, 3, and 6 Months Poststroke in Benin. <i>Archives of Physical Medicine and Rehabilitation</i> , 2019, 100, 2071-2078.	0.5	14
72	Relationship between tactile spatial resolution and digital dexterity during childhood. <i>Somatosensory &amp; Motor Research</i> , 2010, 27, 9-14.	0.4	13

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73	Assessing Locomotion Ability in West African Stroke Patients: Validation of ABILOCO-Benin Scale. Archives of Physical Medicine and Rehabilitation, 2014, 95, 1470-1476.e3.	0.5	13
74	Grip Force Adjustments Reflect Prediction of Dynamic Consequences in Varying Gravito-inertial Fields. Frontiers in Physiology, 2018, 9, 131.	1.3	13
75	Control of bimanual rhythmic movements: trading efficiency for robustness depending on the context. Experimental Brain Research, 2008, 187, 193-205.	0.7	11
76	A novel method using EEG to characterize the cortical processes involved in active and passive touch. , 2016, , .		11
77	Tracking Changes in Participation With Participation Measurement Scale in Community-Dwelling Stroke Survivors in Africa. Archives of Physical Medicine and Rehabilitation, 2018, 99, 2238-2243.	0.5	11
78	Measuring fingerpad deformation during active object manipulation. Journal of Neurophysiology, 2021, 126, 1455-1464.	0.9	11
79	Changes in satisfaction with activities and participation between acute, post-acute and chronic stroke phases: A responsiveness study of the SATIS-Stroke questionnaire. Journal of Rehabilitation Medicine, 2010, 42, 944-948.	0.8	10
80	Responsiveness of the ABILHAND questionnaire in measuring changes in rheumatoid arthritis patients. Arthritis Care and Research, 2011, 63, 135-141.	1.5	10
81	Responsiveness of the <scp>ACTIVLIM</scp> questionnaire: measuring global activity performance in children with cerebral palsy. Developmental Medicine and Child Neurology, 2018, 60, 1178-1185.	1.1	10
82	Translation and Cross-Cultural Adaptation of SATIS-Stroke for Use in Brazil: A Satisfaction Measure of Activities and Participation in Stroke Survivors. BioMed Research International, 2019, 2019, 1-11.	0.9	9
83	Functional assessment in physiotherapy. A literature review. Europa Medicophysica, 2007, 43, 525-41.	0.5	9
84	A Comparison Between Self-Reported and Observed Activity Limitations in Adults With Neuromuscular Disorders. Archives of Physical Medicine and Rehabilitation, 2008, 89, 1720-1723.	0.5	8
85	Measuring functional recovery in stroke patients: the responsiveness of ACTIVLIM-Stroke. Journal of Neurology, Neurosurgery and Psychiatry, 2014, 85, 1337-1342.	0.9	8
86	Impaired predictive and reactive control of precision grip in chronic stroke patients. International Journal of Rehabilitation Research, 2014, 37, 130-137.	0.7	8
87	Using EEG (SS-EPs) to characterize the brain activity in response to textured stimuli in passive touch. , 2015, , .		8
88	Applicability of International Classification of Functioning, Disability and Health-based participation measures in stroke survivors in Africa: a systematic review. International Journal of Rehabilitation Research, 2020, 43, 3-11.	0.7	7
89	Grip Control in Children before, during, and after Impulsive Loading. Journal of Motor Behavior, 2010, 42, 169-177.	0.5	6
90	Mind Your Grip: Even Usual Dexterous Manipulation Requires High Level Cognition. Frontiers in Behavioral Neuroscience, 2017, 11, 220.	1.0	6

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91	Clinimetric properties of the SATIS-Stroke questionnaire in the Brazilian population: A satisfaction assessment measure addressing activities and participation after a stroke. <i>Brazilian Journal of Physical Therapy</i> , 2021, 25, 719-726.	1.1	6
92	Grip Force is Adjusted at a Level That Maintains an Upper Bound on Partial Slip Across Friction Conditions During Object Manipulation. <i>IEEE Transactions on Haptics</i> , 2022, 15, 2-7.	1.8	6
93	Prospective functional analysis of trapeziectomy combined with intermetacarpal tendon stabilisation in trapeziometacarpal arthritis. <i>Acta Orthopaedica Belgica</i> , 2004, 70, 410-6.	0.1	6
94	Manual ability in hand surgery patients: Validation of the ABILHAND scale in four diagnostic groups. <i>PLoS ONE</i> , 2020, 15, e0242625.	1.1	4
95	Changes in Normal Force During Passive Dynamic Touch: Contact Mechanics and Perception. , 2020, , .		3
96	Precision Grip Control while Walking Down a Stair Step. <i>PLoS ONE</i> , 2016, 11, e0165549.	1.1	3
97	Precision grip control while walking down a step in children with unilateral cerebral palsy. <i>PLoS ONE</i> , 2018, 13, e0191684.	1.1	3
98	Influence of vision and posture on grip-lift task parameters in healthy adults. <i>International Journal of Rehabilitation Research</i> , 2014, 37, 354-360.	0.7	1
99	Linking of concepts measured by SATIS-Stroke and the PM-Scale to the international classification of functioning, disability and health. <i>Physiotherapy Theory and Practice</i> , 2022, 38, 3055-3071.	0.6	1
100	GRIP: Dexterous Manipulation of Objects in Weightlessness. , 0, , .		0
101	Normal and tangential forces combine to convey contact pressure during dynamic tactile stimulation. <i>Scientific Reports</i> , 2022, 12, 8215.	1.6	0