

# Agnes Roby-Brami

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5361496/publications.pdf>

Version: 2024-02-01

135  
papers

6,051  
citations

81900

39  
h-index

76900

74  
g-index

163  
all docs

163  
docs citations

163  
times ranked

4716  
citing authors

#	ARTICLE	IF	CITATIONS
1	Longitudinal Study of Motor Recovery After Stroke. <i>Stroke</i> , 2002, 33, 1610-1617.	2.0	492
2	PSYCHOPHYSICAL AND ELECTROPHYSIOLOGICAL APPROACHES TO THE PAIN-RELIEVING EFFECTS OF HETEROTOPIC NOCICEPTIVE STIMULI. <i>Brain</i> , 1984, 107, 1095-1112.	7.6	411
3	On the analysis of movement smoothness. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 112.	4.6	335
4	Upper-Limb Robotic Exoskeletons for Neurorehabilitation: A Review on Control Strategies. <i>IEEE Reviews in Biomedical Engineering</i> , 2016, 9, 4-14.	18.0	260
5	Motor compensation and recovery for reaching in stroke patients. <i>Acta Neurologica Scandinavica</i> , 2003, 107, 369-381.	2.1	225
6	Effect of Trunk Restraint on the Recovery of Reaching Movements in Hemiparetic Patients. <i>Stroke</i> , 2001, 32, 1875-1883.	2.0	189
7	Use of the trunk for reaching targets placed within and beyond the reach in adult hemiparesis. <i>Experimental Brain Research</i> , 2002, 143, 171-180.	1.5	185
8	MYOCLONUS IN A PATIENT WITH SPINAL CORD TRANSECTION. <i>Brain</i> , 1988, 111, 1235-1245.	7.6	182
9	Kinematics of human arm reconstructed from spatial tracking system recordings. <i>Journal of Biomechanics</i> , 2000, 33, 985-995.	2.1	175
10	AN ELECTROPHYSIOLOGICAL INVESTIGATION INTO THE PAIN-RELIEVING EFFECTS OF HETEROTOPIC NOCICEPTIVE STIMULI. <i>Brain</i> , 1987, 110, 1497-1508.	7.6	160
11	Locomotion in rats transplanted with noradrenergic neurons. <i>Brain Research Bulletin</i> , 1989, 22, 115-121.	3.0	158
12	LONG-LATENCY SPINAL REFLEX IN MAN AFTER FLEXOR REFLEX AFFERENT STIMULATION. <i>Brain</i> , 1987, 110, 707-725.	7.6	143
13	Compensation for distal impairments of grasping in adults with hemiparesis. <i>Experimental Brain Research</i> , 2004, 157, 162-73.	1.5	139
14	Robotic Exoskeletons: A Perspective for the Rehabilitation of Arm Coordination in Stroke Patients. <i>Frontiers in Human Neuroscience</i> , 2014, 8, 947.	2.0	124
15	Three-dimensional scapular kinematics and scapulohumeral rhythm in patients with glenohumeral osteoarthritis or frozen shoulder. <i>Journal of Biomechanics</i> , 2008, 41, 326-332.	2.1	114
16	Reaching and Grasping Strategies in Hemiparetic Patients. <i>Motor Control</i> , 1997, 1, 72-91.	0.6	103
17	Comparative effects of electroacupuncture and transcutaneous nerve stimulation on the human blink reflex. <i>Pain</i> , 1982, 14, 267-278.	4.2	88
18	Late flexion reflex in paraplegic patients. Evidence for a spinal stepping generator. <i>Brain Research Bulletin</i> , 1989, 22, 53-56.	3.0	88

#	ARTICLE	IF	CITATIONS
19	Reliability, validity and responsiveness of the French version of the questionnaire Quick Disability of the Arm, Shoulder and Hand in shoulder disorders. <i>Manual Therapy</i> , 2009, 14, 206-212.	1.6	84
20	3-D scapular kinematics during arm elevation: Effect of motion velocity. <i>Clinical Biomechanics</i> , 2006, 21, 932-941.	1.2	79
21	Learning a new visuomotor transformation: error correction and generalization. <i>Cognitive Brain Research</i> , 1995, 2, 229-242.	3.0	77
22	Affected and unaffected quantitative aspects of grip force control in hemiparetic patients after stroke. <i>Brain Research</i> , 2012, 1452, 96-107.	2.2	73
23	Assessment of the accuracy of a human arm model with seven degrees of freedom. <i>Journal of Biomechanics</i> , 2001, 34, 177-185.	2.1	67
24	Validation of the French version of the Disability of the Arm, Shoulder and Hand questionnaire (F-DASH). <i>Joint Bone Spine</i> , 2008, 75, 195-200.	1.6	66
25	Effects of flexor reflex afferent stimulation on the soleus H reflex in patients with a complete spinal cord lesion: evidence for presynaptic inhibition of Ia transmission. <i>Experimental Brain Research</i> , 1990, 81, 593-601.	1.5	64
26	Hand orientation for grasping and arm joint rotation patterns in healthy subjects and hemiparetic stroke patients. <i>Brain Research</i> , 2003, 969, 217-229.	2.2	63
27	The trunk as a part of the kinematic chain for reaching movements in healthy subjects and hemiparetic patients. <i>Brain Research</i> , 2011, 1382, 137-146.	2.2	63
28	Kinematic patterns in normal and degenerative shoulders. Part II: Review of 3-D scapular kinematic patterns in patients with shoulder pain, and clinical implications. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, 46-53.	2.3	59
29	Sensori-Motor Learning with Movement Sonification: Perspectives from Recent Interdisciplinary Studies. <i>Frontiers in Neuroscience</i> , 2016, 10, 385.	2.8	55
30	Evidence for a spinal stepping generator in man. <i>Spinal Cord</i> , 1996, 34, 91-92.	1.9	54
31	Tool use kinematics across different modes of execution. Implications for action representation and apraxia. <i>Cortex</i> , 2013, 49, 184-199.	2.4	54
32	A Methodology to Quantify Alterations in Human Upper Limb Movement During Co-Manipulation With an Exoskeleton. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2010, 18, 389-397.	4.9	51
33	Effect of intrathecal baclofen on the monosynaptic reflex in humans: evidence for a postsynaptic action.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1993, 56, 515-519.	1.9	49
34	Botulinum Toxin to Treat Upper-Limb Spasticity in Hemiparetic Patients: Analysis of Function and Kinematics of Reaching Movements. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 273-281.	2.9	48
35	Olfaction by melanophores: what does it mean?. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1988, 85, 261-264.	7.1	46
36	Hand orientation for grasping depends on the direction of the reaching movement. <i>Brain Research</i> , 2000, 869, 121-129.	2.2	45

#	ARTICLE	IF	CITATIONS
37	A neuropsychological perspective on the link between language and praxis in modern humans. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2012, 367, 144-160.	4.0	45
38	Can We Achieve Intuitive Prosthetic Elbow Control Based on Healthy Upper Limb Motor Strategies?. <i>Frontiers in NeuroRobotics</i> , 2018, 12, 1.	2.8	44
39	Constraining Upper Limb Synergies of Hemiparetic Patients Using a Robotic Exoskeleton in the Perspective of Neuro-Rehabilitation. <i>IEEE Transactions on Neural Systems and Rehabilitation Engineering</i> , 2012, 20, 247-257.	4.9	42
40	Analysis of hand synergies in healthy subjects during bimanual manipulation of various objects. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2014, 11, 113.	4.6	40
41	Neurological correlations of ejaculation and testicular size in men with a complete spinal cord section.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1988, 51, 197-202.	1.9	39
42	Kinematics of prehension and pointing movements in C6 quadriplegic patients. <i>Spinal Cord</i> , 2000, 38, 354-362.	1.9	39
43	Upper limb kinematics after cervical spinal cord injury: a review. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2015, 12, 9.	4.6	38
44	How to extend the elbow with a weak or paralyzed triceps: Control of arm kinematics for aiming in C6â€C7 quadriplegic patients. <i>Neuroscience</i> , 2006, 139, 749-765.	2.3	37
45	Effect of auditory feedback differs according to side of hemiparesis: a comparative pilot study. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2009, 6, 45.	4.6	35
46	Inhibitory effects on flexor reflexes in patients with a complete spinal cord lesion. <i>Experimental Brain Research</i> , 1992, 90, 201-8.	1.5	34
47	Botulinum Toxin to Treat Upper-Limb Spasticity in Hemiparetic Patients: Grasp Strategies and Kinematics of Reach-to-Grasp Movements. <i>Neurorehabilitation and Neural Repair</i> , 2010, 24, 141-151.	2.9	34
48	Faster Reaching in Chronic Spastic Stroke Patients Comes at the Expense of Arm-Trunk Coordination. <i>Neurorehabilitation and Neural Repair</i> , 2016, 30, 209-220.	2.9	33
49	The use of a tool requires its incorporation into the movement: Evidence from stick-pointing in apraxia. <i>Cortex</i> , 2009, 45, 444-455.	2.4	29
50	Modified 3D scapular kinematic patterns for activities of daily living in painful shoulders with restricted mobility: A comparison with contralateral unaffected shoulders. <i>Journal of Biomechanics</i> , 2012, 45, 1305-1311.	2.1	29
51	From ear to hand: the role of the auditory-motor loop in pointing to an auditory source. <i>Frontiers in Computational Neuroscience</i> , 2013, 7, 26.	2.1	29
52	Anticipatory responses to a self-applied load in normal subjects and hemiparetic patients. <i>Journal of Physiology (Paris)</i> , 1996, 90, 27-42.	2.1	28
53	Relationship of glenohumeral elevation and 3-dimensional scapular kinematics with disability in patients with shoulder disorders. <i>Journal of Rehabilitation Medicine</i> , 2008, 40, 456-460.	1.1	26
54	Evidence for a spinal stepping generator in man. Electrophysiological study. <i>Acta Neurobiologiae Experimentalis</i> , 1996, 56, 465-8.	0.7	26

#	ARTICLE	IF	CITATIONS
55	Reachability and the sense of embodiment in amputees using prostheses. <i>Scientific Reports</i> , 2017, 7, 4999.	3.3	25
56	Specific scapular kinematic patterns to differentiate two forms of dynamic scapular winging. <i>Clinical Biomechanics</i> , 2013, 28, 941-947.	1.2	24
57	Electrophysiological evidence for a possible serotonergic involvement in some endogenous opiate activity in humans. <i>European Journal of Pharmacology</i> , 1982, 78, 117-120.	3.5	23
58	Coupling between reaching movement direction and hand orientation for grasping. <i>Brain Research</i> , 2002, 952, 257-267.	2.2	22
59	Quantification of Finger-Tapping Angle Based on Wearable Sensors. <i>Sensors</i> , 2017, 17, 203.	3.8	22
60	Functional classification of grasp strategies used by hemiplegic patients. <i>PLoS ONE</i> , 2017, 12, e0187608.	2.5	22
61	Assessment of an Automatic Prosthetic Elbow Control Strategy Using Residual Limb Motion for Transhumeral Amputated Individuals With Socket or Osseointegrated Prostheses. <i>IEEE Transactions on Medical Robotics and Bionics</i> , 2020, 2, 38-49.	3.2	22
62	Modifying upper-limb inter-joint coordination in healthy subjects by training with a robotic exoskeleton. <i>Journal of NeuroEngineering and Rehabilitation</i> , 2017, 14, 55.	4.6	21
63	The influence of a reduced plantar support surface area on the compensatory reactions to a forward fall. <i>Experimental Brain Research</i> , 1991, 84, 439-43.	1.5	20
64	How do C6/C7 tetraplegic patients grasp balls of different sizes and weights? Impact of surgical musculo-tendinous transfers. <i>Spinal Cord</i> , 2007, 45, 502-512.	1.9	20
65	The trunk as a part of the kinematic chain for arm elevation in healthy subjects and in patients with frozen shoulder. <i>Brain Research</i> , 2008, 1191, 107-115.	2.2	20
66	A new description of scapulothoracic motion during arm movements in healthy subjects. <i>Manual Therapy</i> , 2015, 20, 46-55.	1.6	20
67	Influence of the side of brain damage on postural upper-limb control including the scapula in stroke patients. <i>Experimental Brain Research</i> , 2012, 218, 141-155.	1.5	19
68	Effects of Hand Configuration on the Grasping, Holding, and Placement of an Instrumented Object in Patients With Hemiparesis. <i>Frontiers in Neurology</i> , 2019, 10, 240.	2.4	19
69	CAN VIBRATION-INDUCED ILLUSIONS BE USED AS A MUSCLE PERCEPTION TEST FOR NORMAL AND CEREBRAL-PALSIED CHILDREN?. <i>Developmental Medicine and Child Neurology</i> , 1984, 26, 449-456.	2.1	18
70	Design and acceptability assessment of a new reversible orthosis. , 2008, , .		18
71	The enkephalinase inhibitor, GB 52, does not affect nociceptive flexion reflexes nor pain sensation in humans. <i>Neuropharmacology</i> , 1986, 25, 819-822.	4.1	17
72	Analysis of grasping strategies and function in hemiparetic patients using an instrumented object. , 2013, 2013, 6650379.		17

#	ARTICLE	IF	CITATIONS
73	Experimental and theoretical study of velocity fluctuations during slow movements in humans. <i>Journal of Neurophysiology</i> , 2019, 121, 715-727.	1.8	17
74	People post-stroke perceive movement fluency in virtual reality. <i>Experimental Brain Research</i> , 2012, 218, 1-8.	1.5	16
75	Impairment and Compensation in Dexterous Upper-Limb Function After Stroke. From the Direct Consequences of Pyramidal Tract Lesions to Behavioral Involvement of Both Upper-Limbs in Daily Activities. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 662006.	2.0	16
76	Precision of 3D scapular kinematic measurements for analytic arm movements and activities of daily living. <i>Manual Therapy</i> , 2013, 18, 473-480.	1.6	15
77	Kinematic analysis of the shoulder complex after anatomic and reverse total shoulder arthroplasty: A cross-sectional study. <i>Musculoskeletal Science and Practice</i> , 2017, 29, 84-90.	1.3	15
78	Responsiveness of the French version of the Disability of the Arm, Shoulder and Hand questionnaire (F-DASH) in patients with orthopaedic and medical shoulder disorders. <i>Joint Bone Spine</i> , 2008, 75, 579-584.	1.6	14
79	Grasp: combined contribution of object properties and task constraints on hand and finger posture. <i>Experimental Brain Research</i> , 2014, 232, 3055-3067.	1.5	13
80	Intuitive prosthetic control using upper limb inter-joint coordinations and IMU-based shoulder angles measurement: A pilot study. , 2016, , .		13
81	Recent advances in kinematics of the shoulder complex in healthy people. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, 56-59.	2.3	13
82	Depressive effect of high frequency peripheral conditioning stimulation upon the nociceptive component of the human blink reflex. Lack of naloxone effect. <i>Brain Research</i> , 1982, 239, 322-326.	2.2	12
83	Electrophysiological study of the Babinski sign in paraplegic patients.. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 1989, 52, 1390-1397.	1.9	12
84	Trophic effects on testes in paraplegics. <i>Spinal Cord</i> , 1993, 31, 576-583.	1.9	12
85	Perceptual Weight Judgments When Viewing One's Own and others' Movements under Minimalist Conditions of Visual Presentation. <i>Perception</i> , 2011, 40, 1081-1103.	1.2	12
86	Augmented feedback, virtual reality and robotics for designing new rehabilitation methods. <i>Collection De L'Académie Européenne De Médecine De Réadaptation</i> , 2010, , 223-245.	0.1	11
87	Adaptive control of a robotic exoskeleton for neurorehabilitation. , 2015, , .		10
88	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.	2.3	10
89	Morphine reinforces post-discharge inhibition of $\hat{\pm}$ -motoneurons in man. <i>Brain Research</i> , 1981, 222, 209-212.	2.2	9
90	Shoulder movements during the initial phase of learning manual wheelchair propulsion in able-bodied subjects. <i>Clinical Biomechanics</i> , 2006, 21, S45-S51.	1.2	9

#	ARTICLE	IF	CITATIONS
91	Towards the implementation of natural prosthetic elbow motion using upper limb joint coordination. , 2016, , .		9
92	Movement-Based Control for Upper-Limb Prosthetics: Is the Regression Technique the Key to a Robust and Accurate Control?. Frontiers in Neurobotics, 2018, 12, 41.	2.8	9
93	Intention Prediction and Human Health Condition Detection in Reaching Tasks with Machine Learning Techniques. Sensors, 2021, 21, 5253.	3.8	8
94	Taxonomy based analysis of force exchanges during object grasping and manipulation. PLoS ONE, 2017, 12, e0178185.	2.5	8
95	Direct Kinematic Modeling of the Upper Limb During Trunk-Assisted Reaching. Journal of Applied Biomechanics, 2011, 27, 272-277.	0.8	7
96	Changing human upper-limb synergies with an exoskeleton using viscous fields. , 2011, , .		6
97	Toward the use of augmented auditory feedback for the rehabilitation of arm movements in stroke patients. Annals of Physical and Rehabilitation Medicine, 2014, 57, e4-e5.	2.3	6
98	Movement sequence analysis using hidden Markov models. , 2015, , .		6
99	Comparison of different error signals driving the adaptation in assist-as-needed controllers for neurorehabilitation with an upper-limb robotic exoskeleton. , 2017, , .		6
100	Late Flexion Reflex in Paraplegic Patients: Evidence for a Spinal Stepping Generator. , 1993, , 333-343.		6
101	Is the velocityâ€“curvature relationship disrupted in apraxic patients?. NeuroReport, 2003, 14, 1907-1911.	1.2	5
102	Exploring different movement sonification strategies for rehabilitation in clinical settings. , 2018, , .		5
103	Depressive Effect of Coughing on Spinal Monosynaptic Reflexes in Conscious Man. Clinical Science, 1983, 65, 57-63.	4.3	4
104	Robotic Prosthetics : Moving Beyond Technical Performance. IEEE Technology and Society Magazine, 2015, 34, 71-79.	0.8	4
105	Ears on the Hand: Reaching Three-Dimensional Targets With an Audio-Motor Device. Multisensory Research, 2020, 33, 433-455.	1.1	4
106	Anticipation and compensation for somatosensory deficits in object handling: evidence from a patient with large fiber sensory neuropathy. Journal of Neurophysiology, 2021, 126, 575-590.	1.8	4
107	Exercise therapy program using immersive virtual reality for people with non-specific chronic neck pain: A 3-month retrospective open pilot and feasibility study. Annals of Physical and Rehabilitation Medicine, 2022, 65, 101527.	2.3	4
108	Validation de la version franÃ§aise du questionnaire Disability of the Arm, Shoulder and Hand (DASH). Revue Du Rhumatisme (Edition Francaise), 2008, 75, 274-279.	0.0	3

#	ARTICLE	IF	CITATIONS
109	Ears on the hand: reaching 3D audio targets. BIO Web of Conferences, 2011, 1, 00026.	0.2	3
110	Assistance to bone milling: A tool mounted visual display improves the efficiency of robotic guidance. , 2013, 2013, 6252-6.		3
111	Pre-clinical evaluation of a natural prosthetic elbow control strategy using residual limb motion and a model of healthy inter-joint coordinations. Annals of Physical and Rehabilitation Medicine, 2017, 60, e100.	2.3	3
112	Orientation of the Head and Trunk During Functional Upper Limb Movement. Applied Sciences (Switzerland), 2020, 10, 2115.	2.5	3
113	Improving upper-limb and trunk kinematics by interactive gaming in individuals with chronic stroke: A single-blinded RCT. Annals of Physical and Rehabilitation Medicine, 2022, 65, 101622.	2.3	3
114	Wearable robotic systems and their applications for neurorehabilitation. , 2018, , 241-252.		2
115	Inclusive Human Intention Prediction with Wearable Sensors: Machine Learning Techniques for the Reaching Task Use Case. , 2020, , .		2
116	Modulation of ellipses drawing by sonification. Experimental Brain Research, 2020, 238, 1011-1024.	1.5	2
117	A multi-disciplinary approach in evaluating and facilitating the use of the Manus robot. , 0, , .		1
118	Motor Rehabilitation after Stroke. Stroke Research and Treatment, 2012, 2012, 1-2.	0.8	1
119	Learning Motor Coordination Under Resistive Viscous Force Fields at the Joint Level with an Upper-Limb Robotic Exoskeleton. Biosystems and Biorobotics, 2017, , 1175-1179.	0.3	1
120	Arm elevation involves cervical spine 3-D rotations. Annals of Physical and Rehabilitation Medicine, 2020, 63, 372-375.	2.3	1
121	A historical perspective on learning: the legacy and actuality of I. M. Pavlov and N. A. Bernstein. Collection De L'Académie Européenne De Médecine De Réadaptation, 2010, , 71-93.	0.1	1
122	Evaluation of central commands: Toward a theoretical basis for rehabilitation. Behavioral and Brain Sciences, 1996, 19, 69-71.	0.7	0
123	Réflexes de flexion: mécanisme de leur exagération chez les patients parapaltiques. Annales De Réadaptation Et De Médecine Physique: Revue Scientifique De La Société Française De Réadaptation Fonctionnelle De Réadaptation Et De Médecine Physique, 1999, 42, 477-484.		0
124	La conception d'un robot de rééducation au membre supérieur. Kinesithérapie, 2009, 9, 62-63.	0.1	0
125	Kinematic cues for the categorization of pointing movements made by hemiparetic stroke patients. BIO Web of Conferences, 2011, 1, 00076.	0.2	0
126	Theme E: Disabilities: Analysis models and tools. Irbm, 2013, 34, 14-15.	5.6	0



#	ARTICLE	IF	CITATIONS
127	Instrumented objects for the study and quantitative evaluation of grasping and manipulation strategies. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014, 57, e179-e180.	2.3	0
128	Experimental analysis of 6D scapula kinematics. <i>Annals of Physical and Rehabilitation Medicine</i> , 2014, 57, e98.	2.3	0
129	Kinematics of the Shoulder Girdle During Pointing: Coordination Between Joints and their Contribution to the Peri-Personal Workspace. <i>Motor Control</i> , 2017, 21, 168-194.	0.6	0
130	Using the body kinematics to assess the utilization of transhumeral prostheses. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, e469-e470.	2.3	0
131	Adaptation to the absence of tactile and proprioceptive feedback in object handling. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, e422.	2.3	0
132	Upper limb rehabilitation with movement-sound coupling after brain lesions. <i>Annals of Physical and Rehabilitation Medicine</i> , 2018, 61, e488.	2.3	0
133	Effect of Intrathecal Baclofen on Monosynaptic Reflex in Man. , 1993, , 398-409.		0
134	Analysis of Trunk and Upper Limb Articular Synergies. <i>Lecture Notes in Computer Science</i> , 1999, , 53-57.	1.3	0
135	Magnetic cubes-collocated coils as sensors for displacement positioning. <i>Tehnika</i> , 2015, 70, 828-835.	0.2	0