List of Publications by Year in descending order

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HEDREDT HELLED

#	Article	IF	CITATIONS
1	The cognitive and neural architecture of sequence representation Psychological Review, 2003, 110, 316-339.	3.8	439
2	Adaptation to visuomotor rotations in younger and older adults Psychology and Aging, 2008, 23, 190-202.	1.6	144
3	Hierarchical switching in a multi-dimensional task space. Psychological Research, 1999, 62, 300-312.	1.7	143
4	Structural Constraints on the Performance of Symmetrical Bimanual Movements with Different Amplitudes. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1995, 48, 716-740.	2.3	137
5	Preferred position of visual displays relative to the eyes: a field study of visual strain and individual differences. Ergonomics, 1998, 41, 1034-1049.	2.1	137
6	Structural constraints on bimanual movements. Psychological Research, 1993, 55, 83-98.	1.7	113
7	Implicit and explicit components of dual adaptation to visuomotor rotations. Consciousness and Cognition, 2010, 19, 906-917.	1.5	107
8	Vertical Gaze Direction and the Resting Posture of the Eyes. Perception, 1989, 18, 363-377.	1.2	98
9	Preparation of bimanual movements with same and different amplitudes: specification interference as revealed by reaction time. Acta Psychologica, 1997, 96, 207-227.	1.5	90
10	Self-control demands, cognitive control deficits, and burnout. Work and Stress, 2007, 21, 142-154.	4.5	83
11	Estimates of Time to Contact Based on Changing Size and Changing Target Vergence. Perception, 1993, 22, 549-563.	1.2	79
12	Spatial Compatibility Effects With Tool Use. Human Factors, 2007, 49, 661-670.	3.5	79
13	Secondary-task effects on sequence learning. Psychological Research, 1996, 59, 119-133.	1.7	74
14	Specification of movement amplitudes for the left and right hands: Evidence for transient parametric coupling from overlapping-task performance Journal of Experimental Psychology: Human Perception and Performance, 2000, 26, 1091-1105.	0.9	68
15	Generalization of implicit and explicit adjustments to visuomotor rotations across the workspace in younger and older adults. Journal of Neurophysiology, 2011, 106, 2078-2085.	1.8	68
16	Functional independence of explicit and implicit motor adjustments. Consciousness and Cognition, 2009, 18, 145-159.	1.5	67
17	Impairments of manual tracking performance during spaceflight: more converging evidence from a 20-day space mission. Ergonomics, 2000, 43, 589-609.	2.1	66
18	Testing the invariance of relative timing: Comment on Gentner (1987) Psychological Review, 1988, 95, 552-557.	3.8	65

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19	Static and Phasic Cross-Talk Effects in Discrete Bimanual Reversal Movements. Journal of Motor Behavior, 2001, 33, 67-85.	0.9	62
20	Constraints on visuo-motor adaptation depend on the type of visual feedback during practice. Experimental Brain Research, 2008, 185, 101-110.	1.5	61
21	Preferred vertical gaze direction and observation distance. Ergonomics, 1991, 34, 379-392.	2.1	56
22	Implicit learning of sequences of tasks Journal of Experimental Psychology: Learning Memory and Cognition, 2001, 27, 967-983.	0.9	54
23	A procedure to determine the individually comfortable position of visual displays relative to the eyes. Ergonomics, 1999, 42, 535-549.	2.1	51
24	Transfer of learning among motor patterns with different relative timing Journal of Experimental Psychology: Human Perception and Performance, 1988, 14, 241-252.	0.9	50
25	Control of the dominant and nondominant hand: exploitation and taming of nonmuscular forces. Experimental Brain Research, 2007, 178, 363-373.	1.5	49
26	Fast aiming movements with the left and right arm: Evidence for two-process theories of motor control. Psychological Research, 1981, 43, 81-96.	1.7	46
27	Adaptation to a direction-dependent visuomotor gain in the young and elderly. Psychological Research, 2010, 74, 21-34.	1.7	44
28	Age-related variations of visuomotor adaptation result from both the acquisition and the application of explicit knowledge Psychology and Aging, 2013, 28, 333-339.	1.6	44
29	A Multiple-Representations� Approach to Mental Practice of Motor Skills1. Medicine and Sport Science, 1989, 29, 36-57.	1.4	42
30	Bimanual coupling during the specification of isometric forces. Experimental Brain Research, 1999, 129, 302-316.	1.5	42
31	The Death of Handwriting: Secondary Effects of Frequent Computer Use on Basic Motor Skills. Journal of Motor Behavior, 2011, 43, 247-251.	0.9	41
32	Impairments of manual tracking performance during spaceflight are associated with specific effects of microgravity on visuomotor transformations. Ergonomics, 2003, 46, 920-934.	2.1	40
33	Perceptual attraction in tool use: evidence for a reliability-based weighting mechanism. Journal of Neurophysiology, 2017, 117, 1569-1580.	1.8	40
34	Does a tool eliminate spatial compatibility effects?. European Journal of Cognitive Psychology, 2008, 20, 211-231.	1.3	39
35	Robot assistance of motor learning: A neuro-cognitive perspective. Neuroscience and Biobehavioral Reviews, 2015, 56, 222-240.	6.1	39
36	Binary choice reaction time as a criterion of motor equivalence. Acta Psychologica, 1982, 50, 35-47.	1.5	38

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37	Generalized motor programs for rapid bimanual tasks: a two-level multiplicative-rate model. Biological Cybernetics, 1995, 73, 343-356.	1.3	38
38	Type of visual feedback during practice influences the precision of the acquired internal model of a complex visuo-motor transformation. Ergonomics, 2011, 54, 34-46.	2.1	37
39	Changed visuomotor transformations during and after prolonged microgravity. Experimental Brain Research, 1999, 129, 378-390.	1.5	36
40	Total sleep deprivation increases the costs of shifting between simple cognitive tasks. Acta Psychologica, 2004, 117, 29-64.	1.5	35
41	Implicit and Explicit Representations of Hand Position in Tool Use. PLoS ONE, 2013, 8, e68471.	2.5	35
42	Explicit and implicit components of visuo-motor adaptation: An analysis of individual differences. Consciousness and Cognition, 2015, 33, 156-169.	1.5	34
43	The effects of sustained vertical gaze deviation on the resting state of the vergence system. Vision Research, 1988, 28, 1337-1344.	1.4	33
44	Implicit and explicit adjustments to extrinsic visuo-motor transformations and their age-related changes. Human Movement Science, 2011, 30, 916-930.	1.4	33
45	The influence of movement cues on intermanual interactions. Psychological Research, 2006, 70, 229-244.	1.7	32
46	Intermanual Interactions During Simultaneous Execution and Programming of Finger Movements. Journal of Motor Behavior, 1985, 17, 335-354.	0.9	29
47	Learning the visuomotor transformation of virtual and real sliding levers: simple approximations of complex transformations. Experimental Brain Research, 2009, 195, 153-165.	1.5	29
48	Visual discrimination and response programming. Psychological Research, 1987, 49, 91-98.	1.7	28
49	Invariant relative timing in motor-program theory. Advances in Psychology, 1991, , 37-68.	0.1	28
50	Assembling a task space: global determination of local shift costs. Psychological Research, 2004, 68, 31-40.	1.7	28
51	The Effects of Total Sleep Deprivation on the Generation of Random Sequences of Key-Presses, Numbers and Nouns. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 2005, 58, 275-307.	2.3	28
52	Models for response-response compatibility: The effects of the relation between responses in a choice task. Acta Psychologica, 1995, 90, 315-332.	1.5	27
53	Trajectories in operating a handheld tool Journal of Experimental Psychology: Human Perception and Performance, 2009, 35, 375-389.	0.9	27
54	Learning new visuo-motor gains at early and late working age. Ergonomics, 2007, 50, 979-1003.	2.1	26

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55	Kinematic crossâ€correlation induces sensory integration across separate objects. European Journal of Neuroscience, 2017, 46, 2826-2834.	2.6	26
56	Processes of task-set reconfiguration: switching operations and implementation operations. Acta Psychologica, 2002, 111, 1-28.	1.5	25
57	Intermanual interactions during programming of aimed movements: Converging evidence on common and specific parameters of control. Psychological Research, 1986, 48, 37-46.	1.7	24
58	Active error corrections enhance adaptation to a visuo-motor rotation. Experimental Brain Research, 2011, 211, 97-108.	1.5	24
59	The influence of haptic guidance on the production of spatio-temporal patterns. Human Movement Science, 2012, 31, 519-528.	1.4	24
60	Vision and proprioception in action monitoring by young and older adults. Neurobiology of Aging, 2013, 34, 1864-1872.	3.1	24
61	Optimal integration of actions and their visual effects is based on both online and prior causality evidence. Scientific Reports, 2018, 8, 9796.	3.3	24
62	Doing Two Things at Once: Process Limitations and Interactions. , 1984, , 183-213.		24
63	Adaptation to direction-dependent visuo-motor rotations and its decay in younger and older adults. Acta Psychologica, 2008, 127, 369-381.	1.5	23
64	Task-set reconfiguration with binary and three-valued task dimensions. Psychological Research, 2001, 65, 192-201.	1.7	22
65	The Impact of Augmented Information on Visuo-Motor Adaptation in Younger and Older Adults. PLoS ONE, 2010, 5, e12071.	2.5	22
66	Does a hand preference indicate a hemispheric specialization?. Behavioral and Brain Sciences, 1987, 10, 277-278.	0.7	21
67	Robotic guidance benefits the learning of dynamic, but not of spatial movement characteristics. Experimental Brain Research, 2012, 222, 1-9.	1.5	21
68	Period Duration of Physical and Im aginary Movement Sequences Affects Contralateral Amplitude Modulation. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 1998, 51, 755-779.	2.3	20
69	Different error types and error processing in spatial stimulus-response-compatibility tasks: behavioural and electrophysiological data. Biological Psychology, 2000, 51, 129-150.	2.2	20
70	Nonlinear visuomotor transformations: Locus and modularity. Quarterly Journal of Experimental Psychology, 2007, 60, 1629-1659.	1.1	20
71	Enhanced mechanical transparency during practice impedes open-loop control of a complex tool. Experimental Brain Research, 2012, 218, 283-294.	1.5	20
72	Adaptation to novel visuo-motor transformations: further evidence of functional haptic neglect. Experimental Brain Research, 2012, 218, 129-140.	1,5	20

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73	Effects of Reliability and Global Context on Explicit and Implicit Measures of Sensed Hand Position in Cursor-Control Tasks. Frontiers in Psychology, 2015, 6, 2056.	2.1	20
74	Adaptation to a Nonlinear Visuomotor Amplitude Transformation With Continuous and Terminal Visual Feedback. Journal of Motor Behavior, 2008, 40, 368-379.	0.9	19
75	Age-related variations of visuo-motor adaptation beyond explicit knowledge. Frontiers in Aging Neuroscience, 2014, 6, 152.	3.4	19
76	Visual and proprioceptive recalibrations after exposure to a visuomotor rotation. European Journal of Neuroscience, 2019, 50, 3296-3310.	2.6	19
77	Binary choice reaction time as a criterion of motor equivalence: Further evidence. Acta Psychologica, 1982, 50, 49-60.	1.5	18
78	Intermanual interactions in discrete and periodic bimanual movements with same and different amplitudes. Experimental Brain Research, 2005, 167, 220-237.	1.5	18
79	The trajectory of adaptation to the visuo-motor transformation of virtual and real sliding levers. Experimental Brain Research, 2010, 201, 549-560.	1.5	18
80	Motor learning with fading and growing haptic guidance. Experimental Brain Research, 2014, 232, 2229-2242.	1.5	18
81	One night of total sleep deprivation impairs implicit learning in the serial reaction task, but not the behavioral expression of knowledge Neuropsychology, 2003, 17, 507-516.	1.3	17
82	Modality-specific organization in the representation of sensorimotor sequences. Frontiers in Psychology, 2013, 4, 937.	2.1	17
83	Sensory integration of movements and their visual effects is not enhanced by spatial proximity. Journal of Vision, 2018, 18, 15.	0.3	17
84	On re-scaleability of force and time in aiming movements. Psychological Research, 1984, 46, 73-86.	1.7	16
85	Apparent Motion in Depth Resulting from Changing Size and Changing Vergence. Perception, 1987, 16, 337-350.	1.2	16
86	Adjustment to a complex visuo-motor transformation at early and late working age. Ergonomics, 2009, 52, 1039-1054.	2.1	16
87	Financial incentives enhance adaptation to a sensorimotor transformation. Experimental Brain Research, 2016, 234, 2859-2868.	1.5	16
88	Chapter 3 Coordination. Handbook of Perception and Action, 1996, 2, 121-180.	0.1	15
89	Random noun generation in younger and older adults. Quarterly Journal of Experimental Psychology, 2010, 63, 465-478.	1.1	15
90	The Influence of Robotic Guidance on Different Types of Motor Timing. Journal of Motor Behavior, 2013, 45, 249-258.	0.9	15

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91	Explicit knowledge of sensory non-redundancy can reduce the strength of multisensory integration. Psychological Research, 2020, 84, 890-906.	1.7	15
92	The effects of muscle fatigue on rapid finger oscillations. Experimental Brain Research, 2002, 147, 124-134.	1.5	14
93	The futility of explicit knowledge of a sequence of tasks. European Journal of Cognitive Psychology, 2003, 15, 455-469.	1.3	14
94	Parametric coupling and generalized decoupling revealed by concurrent and successive isometric contractions of distal muscles. Acta Psychologica, 2002, 111, 205-242.	1.5	13
95	The effects of mechanical transparency on adjustment to a complex visuomotor transformation at early and late working age Journal of Experimental Psychology: Applied, 2010, 16, 399-412.	1.2	13
96	The impact of anatomical and spatial distance between responses on response conflict. Memory and Cognition, 2018, 46, 994-1009.	1.6	13
97	A condition that produces sensory recalibration and abolishes multisensory integration. Cognition, 2020, 202, 104326.	2.2	13
98	Response Preparation, Response Conflict, and the Effects of Irrelevant Flanker Stimuli. Advances in Cognitive Psychology, 2017, 13, 70-82.	0.5	13
99	Some points of contact between models of central capacity and factor-analytic models. Acta Psychologica, 1985, 60, 135-155.	1.5	12
100	Adjustment and readjustment of the relative timing of a motor pattern. Psychological Research, 1988, 50, 83-93.	1.7	12
101	Task Sets under Reconstruction: Effects of Partially Incorrect Precues. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 2005, 58, 521-546.	2.3	12
102	Intermanual Interactions Related to Movement Amplitudes and Endpoint Locations. Journal of Motor Behavior, 2006, 38, 126-138.	0.9	12
103	The influence of the dynamic transformation of a sliding lever on aiming errors. Neuroscience, 2012, 207, 137-147.	2.3	12
104	Involuntary Rotations of a Steering Device Induced by Voluntary Rotations of the Head and Maintained Eccentric Head Positions. Journal of Motor Behavior, 1999, 31, 248-264.	0.9	11
105	The modulation of intermanual interactions during the specification of the directions of bimanual movements. Experimental Brain Research, 2006, 169, 162-181.	1.5	11
106	Generalized slowing is not that general in older adults: Evidence from a tracing task. Occupational Ergonomics, 2010, 9, 111-117.	0.3	11
107	Specificity of motor learning in simulator training of endoscopic-surgery skills. Ergonomics, 2012, 55, 1157-1165.	2.1	11
108	Conscious awareness of action potentiates sensorimotor learning. Cognition, 2014, 133, 1-9.	2.2	11

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109	Dissociating explicit and implicit measures of sensed hand position in tool use: Effect of relative frequency of judging different objects. Attention, Perception, and Psychophysics, 2018, 80, 211-221.	1.3	11
110	Contrasting effects of adaptation to a visuomotor rotation on explicit and implicit measures of sensory coupling. Psychological Research, 2019, 83, 935-950.	1.7	11
111	Age-Related Variations in the Control of Electronic Tools. , 2013, , 369-390.		11
112	Rapid Responses with the Left or Right Hand: Response-Response Compatibility Effects Due to Intermanual Interactions. Advances in Psychology, 1990, , 311-342.	0.1	10
113	Chapter 16 The Laboratory and the World Outside. Advances in Psychology, 1988, 50, 405-417.	0.1	9
114	Exploring the time window for causal inference and the multisensory integration of actions and their visual effects. Royal Society Open Science, 2020, 7, 192056.	2.4	9
115	Eccentric head positions bias random generation of leftward and rightward handle-bar rotations. Acta Psychologica, 2001, 106, 23-49.	1.5	8
116	Phasing of Muscle Activity During Rapid Finger Oscillations. Journal of Motor Behavior, 2002, 34, 277-289.	0.9	8
117	Mind and movement. Psychological Research, 2012, 76, 159-170.	1.7	8
118	Haptic guidance interferes with learning to make movements at an angle to stimulus direction. Experimental Brain Research, 2014, 232, 675-684.	1.5	8
119	Technologies shape sensorimotor skills and abilities. Trends in Neuroscience and Education, 2016, 5, 121-129.	3.1	8
120	Visuo-proprioceptive integration and recalibration with multiple visual stimuli. Scientific Reports, 2021, 11, 21640.	3.3	8
121	Selective fatigue in the human motor system. Psychological Research, 1980, 41, 345-354.	1.7	7
122	Aftereffects of Sustained Convergence: Some Implications of the Eye Muscle Potentiation Hypothesis. Perception, 1983, 12, 337-346.	1.2	7
123	The effects of eccentric head positions on leftward and rightward turns of a handle-bar. Acta Psychologica, 1999, 103, 311-329.	1.5	7
124	Structural Constraints on the Coordination of Concurrent Rotations of the Head and a Steering Device. Motor Control, 1999, 3, 39-66.	0.6	7
125	Behavioral Principles of Interlimb Coordination. , 2004, , 223-258.		7
126	Apparent size as a function of vertical gaze direction: New tests of an old hypothesis Journal of Experimental Psychology: Human Perception and Performance, 1991, 17, 232-245.	0.9	6

HERBERT HEUER

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127	Blocking in Rapid Finger Tapping: The Role of Variability in Proximodistal Coordination. Journal of Motor Behavior, 1998, 30, 130-142.	0.9	6
128	A progression of approximations to internal models of complex visuo-motor transformations. Human Movement Science, 2012, 31, 1056-1070.	1.4	6
129	Hierarchical switching in a multi-dimensional task space is not induced by specific task cues. Zeitschrift Fuer Psychologie Mit Zeitschrift Fuer Angewandte Psychologie, 2001, 209, 105-117.	1.0	6
130	â€~Pseudoautomatization' in manual control: a simulation study. Ergonomics, 1988, 31, 1729-1742.	2.1	5
131	Intermanual Cross–Talk Effects in Unimanual Choice Reactions. Quarterly Journal of Experimental Psychology Section A: Human Experimental Psychology, 2004, 57, 993-1018.	2.3	5
132	Postintentional Neglect. Journal of Motor Behavior, 2004, 36, 381-384.	0.9	5
133	Temporal and Spatial Characteristics of Rapid Finger Oscillations. Motor Control, 2006, 10, 212-231.	0.6	5
134	Advance specification and programming interactions: A reply to Rosenbaum, Barnes, and Slotta (1988). Psychological Research, 1988, 50, 63-68.	1.7	4
135	Some characteristics of VITE. Human Movement Science, 1991, 10, 55-64.	1.4	4
136	Directional discrimination of motion in depth based on changing target vergence. Vision Research, 1993, 33, 2153-2156.	1.4	4
137	Simultaneous Specification of Amplitudes and Directions of Bimanual Reversal Movements. Journal of Motor Behavior, 2006, 38, 285-298.	0.9	4
138	Towards mastery of complex visuo-motor transformations. Frontiers in Human Neuroscience, 2013, 7, 32.	2.0	4
139	The coding of repetitions and alternations in action sequences: spatial or relational?. Psychological Research, 2015, 79, 432-445.	1.7	4
140	Effects of Hand and Hemispace on Multisensory Integration of Hand Position and Visual Feedback. Frontiers in Psychology, 2019, 10, 237.	2.1	4
141	To respond or not to respond? A model-based comparison between the processing of go, nogo, and neutral stimuli Journal of Experimental Psychology: Human Perception and Performance, 2020, 46, 525-549.	0.9	4
142	Movement strategies as points on equal-outcome curves. Behavioral and Brain Sciences, 1989, 12, 220-221.	0.7	3
143	The effects of weak perturbations on rapid finger oscillations. Human Movement Science, 2002, 21, 119-130.	1.4	3
144	Mapping effects in choice-response and go/no-go variants of the lexical decision task: A case for polarity correspondence. Quarterly Journal of Experimental Psychology, 2022, 75, 491-507.	1.1	3

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145	Unintended hand movements after abrupt cessation of variable and constant opposing forces. Neuroscience, 2013, 236, 271-280.	2.3	2
146	Movement paths in operating hand-held tools: tests of distal-shift hypotheses. Journal of Neurophysiology, 2013, 109, 2680-2690.	1.8	2
147	Effective Part-Task Training as Evidence of Distinct Adaptive Processes with Different Time Scales. PLoS ONE, 2013, 8, e60196.	2.5	2
148	From Psychologische Forschung to psychological research: a rough journey through a century. Psychological Research, 2021, , 1.	1.7	2
149	Finger Fatigue: Blockings and Approximate Kinematic Invariances. , 2009, , 621-629.		2
150	What is Fitts' law about?. Behavioral and Brain Sciences, 1997, 20, 312-313.	0.7	1
151	Measurements serve a purpose: a note on a possible use of natural measurements. Ergonomics, 2002, 45, 1015-1017.	2.1	1
152	Multiple frames of reference for bimanual co-ordination. Experimental Brain Research, 2006, 175, 485-498.	1.5	1
153	The configuration and relaxation of motor task sets. Psychological Research, 2007, 71, 503-515.	1.7	1
154	Pointing in Stereoscopic Space. Perception, 2009, 38, 1663-1677.	1.2	1
155	Generalization of adaptation to a complex visuo-motor transformation across the workspace. Behavioural Brain Research, 2013, 239, 63-71.	2.2	1
156	Anticipatory Adjustments to Abrupt Changes of Opposing Forces. Journal of Motor Behavior, 2015, 47, 167-181.	0.9	1
157	How Social and Refractory Is the Social Psychological Refractory Period?. Experimental Psychology, 2017, 64, 273-281.	0.7	0