

Hubert Dinse

List of Publications by Year in descending order

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95
papers

6,176
citations

94433

37
h-index

71685

76
g-index

96
all docs

96
docs citations

96
times ranked

5232
citing authors

#	ARTICLE	IF	CITATIONS
1	Topographic reorganization of the hand representation in cortical area 3b owl monkeys trained in a frequency-discrimination task. <i>Journal of Neurophysiology</i> , 1992, 67, 1031-1056.	1.8	782
2	Sensorimotor returning in complex regional pain syndrome parallels pain reduction. <i>Annals of Neurology</i> , 2005, 57, 425-429.	5.3	322
3	Patterns of cortical reorganization parallel impaired tactile discrimination and pain intensity in complex regional pain syndrome. <i>NeuroImage</i> , 2006, 32, 503-510.	4.2	272
4	Pharmacological Modulation of Perceptual Learning and Associated Cortical Reorganization. <i>Science</i> , 2003, 301, 91-94.	12.6	265
5	A common framework for perceptual learning. <i>Current Opinion in Neurobiology</i> , 2007, 17, 148-153.	4.2	241
6	Six months of dance intervention enhances postural, sensorimotor, and cognitive performance in elderly without affecting cardio-respiratory functions. <i>Frontiers in Aging Neuroscience</i> , 2013, 5, 5.	3.4	235
7	Shifts in cortical representations predict human discrimination improvement. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2001, 98, 12255-12260.	7.1	217
8	Functional Imaging of Perceptual Learning in Human Primary and Secondary Somatosensory Cortex. <i>Neuron</i> , 2003, 40, 643-653.	8.1	214
9	Spastic Paresis After Perinatal Brain Damage in Rats Is Reduced by Human Cord Blood Mononuclear Cells. <i>Pediatric Research</i> , 2006, 59, 244-249.	2.3	213
10	Superior tactile performance and learning in professional pianists: evidence for meta-plasticity in musicians. <i>European Journal of Neuroscience</i> , 2004, 19, 473-478.	2.6	169
11	Improvement of Tactile Discrimination Performance and Enlargement of Cortical Somatosensory Maps after 5 Hz rTMS. <i>PLoS Biology</i> , 2005, 3, e362.	5.6	167
12	Mean sustained pain levels are linked to hemispherical side-to-side differences of primary somatosensory cortex in the complex regional pain syndrome I. <i>Experimental Brain Research</i> , 2004, 155, 115-119.	1.5	154
13	Tactile coactivation resets age-related decline of human tactile discrimination. <i>Annals of Neurology</i> , 2006, 60, 88-94.	5.3	115
14	Superior sensory, motor, and cognitive performance in elderly individuals with multi-year dancing activities. <i>Frontiers in Aging Neuroscience</i> , 2010, 2, .	3.4	114
15	Immobilization Impairs Tactile Perception and Shrinks Somatosensory Cortical Maps. <i>Current Biology</i> , 2009, 19, 837-842.	3.9	106
16	Shorter latencies for motion trajectories than for flashes in population responses of cat primary visual cortex. <i>Journal of Physiology</i> , 2004, 556, 971-982.	2.9	105
17	State-dependencies of learning across brain scales. <i>Frontiers in Computational Neuroscience</i> , 2015, 9, 1.	2.1	104
18	Impaired Tactile Acuity in Old Age Is Accompanied by Enlarged Hand Representations in Somatosensory Cortex. <i>Cerebral Cortex</i> , 2009, 19, 1530-1538.	2.9	102

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19	Increased Excitability of Somatosensory Cortex in Aged Humans is Associated with Impaired Tactile Acuity. <i>Journal of Neuroscience</i> , 2012, 32, 1811-1816.	3.6	99
20	Improvement and Impairment of Visually Guided Behavior through LTP- and LTD-like Exposure-Based Visual Learning. <i>Current Biology</i> , 2011, 21, 876-882.	3.9	97
21	Human Umbilical Cord Blood Cells Restore Brain Damage Induced Changes in Rat Somatosensory Cortex. <i>PLoS ONE</i> , 2011, 6, e20194.	2.5	96
22	Sustained increase of somatosensory cortex excitability by tactile coactivation studied by paired median nerve stimulation in humans correlates with perceptual gain. <i>Journal of Physiology</i> , 2007, 584, 463-471.	2.9	87
23	Improvement of tactile perception and enhancement of cortical excitability through intermittent theta burst rTMS over human primary somatosensory cortex. <i>Experimental Brain Research</i> , 2007, 184, 1-11.	1.5	76
24	Learning without Training. <i>Current Biology</i> , 2013, 23, R489-R499.	3.9	76
25	Differential effects of tactile high- and low-frequency stimulation on tactile discrimination in human subjects. <i>BMC Neuroscience</i> , 2008, 9, 9.	1.9	74
26	Assessment of sensorimotor cortical representation asymmetries and motor skills in violin players. <i>European Journal of Neuroscience</i> , 2007, 26, 3291-3302.	2.6	71
27	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. <i>Frontiers in Computational Neuroscience</i> , 2014, 8, 36.	2.1	56
28	State-Dependent Perceptual Learning. <i>Journal of Neuroscience</i> , 2013, 33, 2900-2907.	3.6	54
29	Excitation and Inhibition Jointly Regulate Cortical Reorganization in Adult Rats. <i>Journal of Neuroscience</i> , 2008, 28, 12284-12293.	3.6	52
30	Repetitive tactile stimulation changes resting-state functional connectivityâ€”implications for treatment of sensorimotor decline. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 144.	2.0	52
31	Effects of Repetitive Electrical Stimulation to Treat Sensory Loss in Persons Poststroke. <i>Archives of Physical Medicine and Rehabilitation</i> , 2009, 90, 2108-2111.	0.9	51
32	Cognitive and Tactile Factors Affecting Human Haptic Performance in Later Life. <i>PLoS ONE</i> , 2012, 7, e30420.	2.5	51
33	An rTMS study into self-face recognition using video-morphing technique. <i>Social Cognitive and Affective Neuroscience</i> , 2011, 6, 442-449.	3.0	45
34	Age-related changes in the joint position sense of the human hand. <i>Clinical Interventions in Aging</i> , 2012, 7, 499.	2.9	43
35	Differential effects of synchronous and asynchronous multifinger coactivation on human tactile performance. <i>BMC Neuroscience</i> , 2007, 8, 58.	1.9	42
36	Repetitive Transcranial Direct Current Stimulation Induced Excitability Changes of Primary Visual Cortex and Visual Learning Effectsâ€”A Pilot Study. <i>Frontiers in Behavioral Neuroscience</i> , 2016, 10, 116.	2.0	42

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37	Visual paired-pulse stimulation reveals enhanced visual cortex excitability in migraineurs. <i>European Journal of Neuroscience</i> , 2009, 30, 714-720.	2.6	41
38	Local GABA Concentration Predicts Perceptual Improvements After Repetitive Sensory Stimulation in Humans. <i>Cerebral Cortex</i> , 2016, 26, 1295-1301.	2.9	40
39	Homeostatic Metaplasticity in the Human Somatosensory Cortex. <i>Journal of Cognitive Neuroscience</i> , 2008, 20, 1517-1528.	2.3	39
40	Repetitive Electric Stimulation Elicits Enduring Improvement of Sensorimotor Performance in Seniors. <i>Neural Plasticity</i> , 2010, 2010, 1-11.	2.2	39
41	Long-term sensory stimulation therapy improves hand function and restores cortical responsiveness in patients with chronic cerebral lesions. Three single case studies. <i>Frontiers in Human Neuroscience</i> , 2012, 6, 244.	2.0	39
42	Structural changes in brain morphology induced by brief periods of repetitive sensory stimulation. <i>NeuroImage</i> , 2018, 165, 148-157.	4.2	38
43	Somatosensory alpha oscillations gate perceptual learning efficiency. <i>Nature Communications</i> , 2019, 10, 263.	12.8	36
44	A map of periodicity orthogonal to frequency representation in the cat auditory cortex. <i>Frontiers in Integrative Neuroscience</i> , 2009, 3, 27.	2.1	35
45	Differential Effects of Aging on Fore- and Hindpaw Maps of Rat Somatosensory Cortex. <i>PLoS ONE</i> , 2008, 3, e3399.	2.5	35
46	Balance, Sensorimotor, and Cognitive Performance in Long-Year Expert Senior Ballroom Dancers. <i>Journal of Aging Research</i> , 2011, 2011, 1-10.	0.9	33
47	Faster Perceptual Learning through Excitotoxic Neurodegeneration. <i>Current Biology</i> , 2012, 22, 1914-1917.	3.9	33
48	Daily repetitive sensory stimulation of the paretic hand for the treatment of sensorimotor deficits in patients with subacute stroke: RESET, a randomized, sham-controlled trial. <i>BMC Neurology</i> , 2018, 18, 2.	1.8	33
49	Increased functional connectivity is crucial for learning novel muscle synergies. <i>NeuroImage</i> , 2007, 35, 1211-1218.	4.2	32
50	Effects of Aging on Paired-Pulse Behavior of Rat Somatosensory Cortical Neurons. <i>Cerebral Cortex</i> , 2010, 20, 1208-1216.	2.9	32
51	A complementary role of intracortical inhibition in age-related tactile degradation and its remodelling in humans. <i>Scientific Reports</i> , 2016, 6, 27388.	3.3	32
52	Touch improvement at the hand transfers to the face. <i>Current Biology</i> , 2014, 24, R736-R737.	3.9	28
53	Resting BOLD fluctuations in the primary somatosensory cortex correlate with tactile acuity. <i>Cortex</i> , 2015, 64, 20-28.	2.4	28
54	Paired-pulse behavior of visually evoked potentials recorded in human visual cortex using patterned paired-pulse stimulation. <i>Experimental Brain Research</i> , 2008, 188, 427-435.	1.5	27

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55	The stress hormone cortisol blocks perceptual learning in humans. <i>Psychoneuroendocrinology</i> , 2017, 77, 63-67.	2.7	26
56	Striatal functional connectivity networks are modulated by fMRI resting state conditions. <i>NeuroImage</i> , 2011, 54, 380-388.	4.2	25
57	Tactile Acuity Charts: A Reliable Measure of Spatial Acuity. <i>PLoS ONE</i> , 2014, 9, e87384.	2.5	24
58	Effects of Aging on Properties of the Local Circuit in Rat Primary Somatosensory Cortex (S1) In Vitro. <i>Cerebral Cortex</i> , 2013, 23, 2500-2513.	2.9	23
59	A single dose of lorazepam reduces paired-pulse suppression of median nerve evoked somatosensory evoked potentials. <i>European Journal of Neuroscience</i> , 2016, 43, 1156-1160.	2.6	23
60	Effects of Combining 2 Weeks of Passive Sensory Stimulation with Active Hand Motor Training in Healthy Adults. <i>PLoS ONE</i> , 2014, 9, e84402.	2.5	22
61	High-Frequency Repetitive Sensory Stimulation as Intervention to Improve Sensory Loss in Patients with Complex Regional Pain Syndrome I. <i>Frontiers in Neurology</i> , 2015, 6, 242.	2.4	20
62	Influence of stimulation intensity on paired-pulse suppression of human median nerve somatosensory evoked potentials. <i>NeuroReport</i> , 2013, 24, 451-456.	1.2	18
63	Questionnaire-based evaluation of everyday competence in older adults. <i>Clinical Interventions in Aging</i> , 2011, 6, 37.	2.9	17
64	Improved Acuity and Dexterity but Unchanged Touch and Pain Thresholds following Repetitive Sensory Stimulation of the Fingers. <i>Neural Plasticity</i> , 2012, 2012, 1-10.	2.2	17
65	Learning effects in haptic perception. , 2008, , 165-182.		16
66	Rapid Assessment of Age-Related Differences in Standing Balance. <i>Journal of Aging Research</i> , 2011, 2011, 1-6.	0.9	16
67	Cortical topography of intracortical inhibition influences the speed of decision making. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3107-3112.	7.1	16
68	Neuromagnetic correlates of adaptive plasticity across the hand-face border in human primary somatosensory cortex. <i>Journal of Neurophysiology</i> , 2016, 115, 2095-2104.	1.8	15
69	Parallel modulation of intracortical excitability of somatosensory and visual cortex by the gonadal hormones estradiol and progesterone. <i>Scientific Reports</i> , 2020, 10, 22237.	3.3	15
70	Behavioural and neurophysiological markers reveal differential sensitivity to homeostatic interactions between centrally and peripherally applied passive stimulation. <i>European Journal of Neuroscience</i> , 2013, 38, 2893-2901.	2.6	14
71	Enhanced tactile acuity through mental states. <i>Scientific Reports</i> , 2015, 5, 13549.	3.3	14
72	Priming Hand Motor Training with Repetitive Stimulation of the Fingertips; Performance Gain and Functional Imaging of Training Effects. <i>Brain Stimulation</i> , 2017, 10, 139-146.	1.6	14

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73	Regionally Specific Regulation of Sensorimotor Network Connectivity Following Tactile Improvement. <i>Neural Plasticity</i> , 2017, 2017, 1-11.	2.2	14
74	The effect of LTP- and LTD-like visual stimulation on modulation of human orientation discrimination. <i>Scientific Reports</i> , 2018, 8, 16156.	3.3	13
75	20 Hz Steady-State Response in Somatosensory Cortex During Induction of Tactile Perceptual Learning Through LTP-Like Sensory Stimulation. <i>Frontiers in Human Neuroscience</i> , 2020, 14, 257.	2.0	13
76	Sensory Stimulation for Augmenting Perception, Sensorimotor Behavior and Cognition. , 2011, , .		13
77	Noradrenergic modulation of human visual cortex excitability assessed by paired-pulse visual-evoked potentials. <i>NeuroReport</i> , 2012, 23, 707-711.	1.2	11
78	Perceptual improvement following repetitive sensory stimulation depends monotonically on stimulation intensity. <i>Brain Stimulation</i> , 2012, 5, 647-651.	1.6	11
79	Brain Activation in Motor Sequence Learning Is Related to the Level of Native Cortical Excitability. <i>PLoS ONE</i> , 2013, 8, e61863.	2.5	10
80	Phosphene thresholds correlate with paired-pulse suppression of visually evoked potentials. <i>Brain Stimulation</i> , 2013, 6, 118-121.	1.6	9
81	Quantitative assessment of joint position sense recovery in subacute stroke patients: A pilot study. <i>Journal of Rehabilitation Medicine</i> , 2013, 45, 1004-1009.	1.1	9
82	Opposing effects of dopamine antagonism in a motor sequence task—amripride increases cortical excitability and impairs motor learning. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 201.	2.0	9
83	Synergistic effects of noradrenergic modulation with atomoxetine and 10ÂHz repetitive transcranial magnetic stimulation on motor learning in healthy humans. <i>BMC Neuroscience</i> , 2014, 15, 46.	1.9	8
84	Tactile learning transfer from the hand to the face but not to the forearm implies a special hand-face relationship. <i>Scientific Reports</i> , 2018, 8, 11752.	3.3	7
85	Differential effects of the temporal and spatial distribution of audiovisual stimuli on crossâmodal spatial recalibration. <i>European Journal of Neuroscience</i> , 2020, 52, 3763-3775.	2.6	7
86	Plasticity of Adult Sensorimotor System. <i>Neural Plasticity</i> , 2012, 2012, 1-2.	2.2	6
87	Dopaminergic influences on changes in human tactile acuity induced by tactile coactivation. <i>Experimental Brain Research</i> , 2007, 181, 131-137.	1.5	5
88	Cholinergic gating of improvement of tactile acuity induced by peripheral tactile stimulation. <i>Neuroscience Letters</i> , 2008, 434, 129-132.	2.1	5
89	Repetitive Sensory Stimulationâ€”A Canonical Approach to Control the Induction of Human Learning at a Behavioral and Neural Level. <i>Handbook of Behavioral Neuroscience</i> , 2018, 28, 389-413.	0.7	4
90	Light and confocal laser-scanning microscopical evidences for complementary patterns of glial fibrillary acidic protein and <i>Wisteria floribunda</i> agglutinin. <i>Experimental and Toxicologic Pathology</i> , 2000, 52, 303-307.	2.1	2

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91	Perceptual Learning: Sharing and Keeping Learned Improvements within a Category. <i>Current Biology</i> , 2019, 29, R280-R282.	3.9	2
92	Pharmacology of Motor and Somatosensory Skills in Humans. <i>Current Neuropharmacology</i> , 2005, 3, 145-156.	2.9	1
93	Choosing to improve or to impair. <i>Clinical Neurophysiology</i> , 2012, 123, 1063-1064.	1.5	1
94	Receptive field plasticity of area 17 visual cortical neurons of adult rats. <i>Experimental Brain Research</i> , 2009, 199, 401-410.	1.5	0
95	Population Dynamics in Auditory Cortex: Optical Imaging. , 2011, , 577-595.		0