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	Differential effects of the temporal and spatial distribution of audiovisual stimuli on crossâ€modal spatial recalibration. European Journal of Neuroscience, 2020, 52, 3763-3775.	2.6	7
2	20 Hz Steady-State Response in Somatosensory Cortex During Induction of Tactile Perceptual Learning Through LTP-Like Sensory Stimulation. Frontiers in Human Neuroscience, 2020, 14, 257.	2.0	13
3	Parallel modulation of intracortical excitability of somatosensory and visual cortex by the gonadal hormones estradiol and progesterone. Scientific Reports, 2020, 10, 22237.	3.3	15
4	Perceptual Learning: Sharing and Keeping Learned Improvements within a Category. Current Biology, 2019, 29, R280-R282.	3.9	2
5	Somatosensory alpha oscillations gate perceptual learning efficiency. Nature Communications, 2019, 10, 263.	12.8	36
6	Structural changes in brain morphology induced by brief periods of repetitive sensory stimulation. NeuroImage, 2018, 165, 148-157.	4.2	38
7	The effect of LTP- and LTD-like visual stimulation on modulation of human orientation discrimination. Scientific Reports, 2018, 8, 16156.	3.3	13
8	Repetitive Sensory Stimulationâ€"A Canonical Approach to Control the Induction of Human Learning at a Behavioral and Neural Level. Handbook of Behavioral Neuroscience, 2018, 28, 389-413.	0.7	4
9	Tactile learning transfer from the hand to the face but not to the forearm implies a special hand-face relationship. Scientific Reports, 2018, 8, 11752.	3.3	7
10	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. BMC Neurology, 2018, 18, 2.	1.8	33
11	The stress hormone cortisol blocks perceptual learning in humans. Psychoneuroendocrinology, 2017, 77, 63-67.	2.7	26
12	Priming Hand Motor Training with Repetitive Stimulation of the Fingertips; Performance Gain and Functional Imaging of Training Effects. Brain Stimulation, 2017, 10, 139-146.	1.6	14
13	Regionally Specific Regulation of Sensorimotor Network Connectivity Following Tactile Improvement. Neural Plasticity, 2017, 2017, 1-11.	2.2	14
14	Repetitive Transcranial Direct Current Stimulation Induced Excitability Changes of Primary Visual Cortex and Visual Learning Effectsâ€"A Pilot Study. Frontiers in Behavioral Neuroscience, 2016, 10, 116.	2.0	42
15	A complementary role of intracortical inhibition in age-related tactile degradation and its remodelling in humans. Scientific Reports, 2016, 6, 27388.	3.3	32
16	Neuromagnetic correlates of adaptive plasticity across the hand-face border in human primary somatosensory cortex. Journal of Neurophysiology, 2016, 115, 2095-2104.	1.8	15
17	A single dose of lorazepam reduces pairedâ€pulse suppression of median nerve evoked somatosensory evoked potentials. European Journal of Neuroscience, 2016, 43, 1156-1160.	2.6	23
18	Local GABA Concentration Predicts Perceptual Improvements After Repetitive Sensory Stimulation in Humans. Cerebral Cortex, 2016, 26, 1295-1301.	2.9	40

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19	Enhanced tactile acuity through mental states. Scientific Reports, 2015, 5, 13549.	3.3	14
20	State-dependencies of learning across brain scales. Frontiers in Computational Neuroscience, 2015, 9, 1.	2.1	104
21	High-Frequency Repetitive Sensory Stimulation as Intervention to Improve Sensory Loss in Patients with Complex Regional Pain Syndrome I. Frontiers in Neurology, 2015, 6, 242.	2.4	20
22	Resting BOLD fluctuations in the primary somatosensory cortex correlate with tactile acuity. Cortex, 2015, 64, 20-28.	2.4	28
23	Opposing effects of dopamine antagonism in a motor sequence taskÃ¢â‚¬â€tiapride increases cortical excitability and impairs motor learning. Frontiers in Behavioral Neuroscience, 2014, 8, 201.	2.0	9
24	The role of alpha-rhythm states in perceptual learning: insights from experiments and computational models. Frontiers in Computational Neuroscience, 2014, 8, 36.	2.1	56
25	Synergistic effects of noradrenergic modulation with atomoxetine and 10ÂHz repetitive transcranial magnetic stimulation on motor learning in healthy humans. BMC Neuroscience, 2014, 15, 46.	1.9	8
26	Touch improvement at the hand transfers to the face. Current Biology, 2014, 24, R736-R737.	3.9	28
27	Effects of Combining 2 Weeks of Passive Sensory Stimulation with Active Hand Motor Training in Healthy Adults. PLoS ONE, 2014, 9, e84402.	2.5	22
28	Tactile Acuity Charts: A Reliable Measure of Spatial Acuity. PLoS ONE, 2014, 9, e87384.	2.5	24
29	Phosphene thresholds correlate with paired-pulse suppression of visually evoked potentials. Brain Stimulation, 2013, 6, 118-121.	1.6	9
30	Learning without Training. Current Biology, 2013, 23, R489-R499.	3.9	76
31	Quantitative assessment of joint position sense recovery in subacute stroke patients: A pilot study. Journal of Rehabilitation Medicine, 2013, 45, 1004-1009.	1.1	9
32	Effects of Aging on Properties of the Local Circuit in Rat Primary Somatosensory Cortex (S1) In Vitro. Cerebral Cortex, 2013, 23, 2500-2513.	2.9	23
33	State-Dependent Perceptual Learning. Journal of Neuroscience, 2013, 33, 2900-2907.	3.6	54
34	Behavioural and neurophysiological markers reveal differential sensitivity to homeostatic interactions between centrally and peripherally applied passive stimulation. European Journal of Neuroscience, 2013, 38, 2893-2901.	2.6	14
35	Influence of stimulation intensity on paired-pulse suppression of human median nerve somatosensory evoked potentials. NeuroReport, 2013, 24, 451-456.	1.2	18
36	Six months of dance intervention enhances postural, sensorimotor, and cognitive performance in elderly without affecting cardio-respiratory functions. Frontiers in Aging Neuroscience, 2013, 5, 5.	3.4	235

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37	Brain Activation in Motor Sequence Learning Is Related to the Level of Native Cortical Excitability. PLoS ONE, 2013, 8, e61863.	2.5	10
38	Plasticity of Adult Sensorimotor System. Neural Plasticity, 2012, 2012, 1-2.	2.2	6
39	Increased Excitability of Somatosensory Cortex in Aged Humans is Associated with Impaired Tactile Acuity. Journal of Neuroscience, 2012, 32, 1811-1816.	3.6	99
40	Improved Acuity and Dexterity but Unchanged Touch and Pain Thresholds following Repetitive Sensory Stimulation of the Fingers. Neural Plasticity, 2012, 2012, 1-10.	2.2	17
41	Cortical topography of intracortical inhibition influences the speed of decision making. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 3107-3112.	7.1	16
42	Noradrenergic modulation of human visual cortex excitability assessed by paired-pulse visual-evoked potentials. NeuroReport, 2012, 23, 707-711.	1.2	11
43	Choosing to improve or to impair. Clinical Neurophysiology, 2012, 123, 1063-1064.	1.5	1
44	Perceptual improvement following repetitive sensory stimulation depends monotonically on stimulation intensity. Brain Stimulation, 2012, 5, 647-651.	1.6	11
45	Faster Perceptual Learning through Excitotoxic Neurodegeneration. Current Biology, 2012, 22, 1914-1917.	3.9	33
46	Cognitive and Tactile Factors Affecting Human Haptic Performance in Later Life. PLoS ONE, 2012, 7, e30420.	2.5	51
47	Age-related changes in the joint position sense of the human hand. Clinical Interventions in Aging, 2012, 7, 499.	2.9	43
48	Repetitive tactile stimulation changes resting-state functional connectivityâ€"implications for treatment of sensorimotor decline. Frontiers in Human Neuroscience, 2012, 6, 144.	2.0	52
49	Long-term sensory stimulation therapy improves hand function and restores cortical responsiveness in patients with chronic cerebral lesions. Three single case studies. Frontiers in Human Neuroscience, 2012, 6, 244.	2.0	39
50	Striatal functional connectivity networks are modulated by fMRI resting state conditions. NeuroImage, 2011, 54, 380-388.	4.2	25
51	Questionnaire-based evaluation of everyday competence in older adults. Clinical Interventions in Aging, 2011, 6, 37.	2.9	17
52	Human Umbilical Cord Blood Cells Restore Brain Damage Induced Changes in Rat Somatosensory Cortex. PLoS ONE, 2011, 6, e20194.	2.5	96
53	Improvement and Impairment of Visually Guided Behavior through LTP- and LTD-like Exposure-Based Visual Learning. Current Biology, 2011, 21, 876-882.	3.9	97
54	An rTMS study into self-face recognition using video-morphing technique. Social Cognitive and Affective Neuroscience, 2011, 6, 442-449.	3.0	45

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55	Balance, Sensorimotor, and Cognitive Performance in Long-Year Expert Senior Ballroom Dancers. Journal of Aging Research, 2011, 2011, 1-10.	0.9	33
56	Rapid Assessment of Age-Related Differences in Standing Balance. Journal of Aging Research, 2011, 2011, 1-6.	0.9	16
57	Sensory Stimulation for Augmenting Perception, Sensorimotor Behavior and Cognition. , 2011, , .		13
58	Population Dynamics in Auditory Cortex: Optical Imaging. , 2011, , 577-595.		0
59	Superior sensory, motor, and cognitive performance in elderly individuals with multi-year dancing activities. Frontiers in Aging Neuroscience, 2010, 2, .	3.4	114
60	Repetitive Electric Stimulation Elicits Enduring Improvement of Sensorimotor Performance in Seniors. Neural Plasticity, 2010, 2010, 1-11.	2.2	39
61	Effects of Aging on Paired-Pulse Behavior of Rat Somatosensory Cortical Neurons. Cerebral Cortex, 2010, 20, 1208-1216.	2.9	32
62	A map of periodicity orthogonal to frequency representation in the cat auditory cortex. Frontiers in Integrative Neuroscience, 2009, 3, 27.	2.1	35
63	Impaired Tactile Acuity in Old Age Is Accompanied by Enlarged Hand Representations in Somatosensory Cortex. Cerebral Cortex, 2009, 19, 1530-1538.	2.9	102
64	Receptive field plasticity of area 17 visual cortical neurons of adult rats. Experimental Brain Research, 2009, 199, 401-410.	1.5	0
65	Visual pairedâ€pulse stimulation reveals enhanced visual cortex excitability in migraineurs. European Journal of Neuroscience, 2009, 30, 714-720.	2.6	41
66	Effects of Repetitive Electrical Stimulation to Treat Sensory Loss in Persons Poststroke. Archives of Physical Medicine and Rehabilitation, 2009, 90, 2108-2111.	0.9	51
67	Immobilization Impairs Tactile Perception and Shrinks Somatosensory Cortical Maps. Current Biology, 2009, 19, 837-842.	3.9	106
68	Paired-pulse behavior of visually evoked potentials recorded in human visual cortex using patterned paired-pulse stimulation. Experimental Brain Research, 2008, 188, 427-435.	1.5	27
69	Differential effects of tactile high- and low-frequency stimulation on tactile discrimination in human subjects. BMC Neuroscience, 2008, 9, 9.	1.9	74
70	Excitation and Inhibition Jointly Regulate Cortical Reorganization in Adult Rats. Journal of Neuroscience, 2008, 28, 12284-12293.	3.6	52
71	Cholinergic gating of improvement of tactile acuity induced by peripheral tactile stimulation. Neuroscience Letters, 2008, 434, 129-132.	2.1	5
72	Learning effects in haptic perception. , 2008, , 165-182.		16

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73	Homeostatic Metaplasticity in the Human Somatosensory Cortex. Journal of Cognitive Neuroscience, 2008, 20, 1517-1528.	2.3	39
74	Differential Effects of Aging on Foreâ€“ and Hindpaw Maps of Rat Somatosensory Cortex. PLoS ONE, 2008, 3, e3399.	2.5	35
75	Increased functional connectivity is crucial for learning novel muscle synergies. NeuroImage, 2007, 35, 1211-1218.	4.2	32
76	Sustained increase of somatosensory cortex excitability by tactile coactivation studied by paired median nerve stimulation in humans correlates with perceptual gain. Journal of Physiology, 2007, 584, 463-471.	2.9	87
77	Assessment of sensorimotor cortical representation asymmetries and motor skills in violin players. European Journal of Neuroscience, 2007, 26, 3291-3302.	2.6	71
78	Differential effects of synchronous and asynchronous multifinger coactivation on human tactile performance. BMC Neuroscience, 2007, 8, 58.	1.9	42
79	A common framework for perceptual learning. Current Opinion in Neurobiology, 2007, 17, 148-153.	4.2	241
80	Dopaminergic influences on changes in human tactile acuity induced by tactile coactivation. Experimental Brain Research, 2007, 181, 131-137.	1.5	5
81	Improvement of tactile perception and enhancement of cortical excitability through intermittent theta burst rTMS over human primary somatosensory cortex. Experimental Brain Research, 2007, 184, 1-11.	1.5	76
82	Spastic Paresis After Perinatal Brain Damage in Rats Is Reduced by Human Cord Blood Mononuclear Cells. Pediatric Research, 2006, 59, 244-249.	2.3	213
83	Patterns of cortical reorganization parallel impaired tactile discrimination and pain intensity in complex regional pain syndrome. NeuroImage, 2006, 32, 503-510.	4.2	272
84	Tactile coactivation resets age-related decline of human tactile discrimination. Annals of Neurology, 2006, 60, 88-94.	5.3	115
85	Sensorimotor returning in complex regional pain syndrome parallels pain reduction. Annals of Neurology, 2005, 57, 425-429.	5.3	322
86	Improvement of Tactile Discrimination Performance and Enlargement of Cortical Somatosensory Maps after 5 Hz rTMS. PLoS Biology, 2005, 3, e362.	5.6	167
87	Pharmacology of Motor and Somatosensory Skills in Humans. Current Neuropharmacology, 2005, 3, 145-156.	2.9	1
88	Superior tactile performance and learning in professional pianists: evidence for meta-plasticity in musicians. European Journal of Neuroscience, 2004, 19, 473-478.	2.6	169
89	Shorter latencies for motion trajectories than for flashes in population responses of cat primary visual cortex. Journal of Physiology, 2004, 556, 971-982.	2.9	105
90	Mean sustained pain levels are linked to hemispherical side-to-side differences of primary somatosensory cortex in the complex regional pain syndrome I. Experimental Brain Research, 2004, 155, 115-119.	1.5	154

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91	Functional Imaging of Perceptual Learning in Human Primary and Secondary Somatosensory Cortex. Neuron, 2003, 40, 643-653.	8.1	214
92	Pharmacological Modulation of Perceptual Learning and Associated Cortical Reorganization. Science, 2003, 301, 91-94.	12.6	265
93	Shifts in cortical representations predict human discrimination improvement. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 12255-12260.	7.1	217
94	Light and confocal laser-scanning microscopical evidences for complementary patterns of glial fibrillary acidic protein and Wisteria floribunda agglutinin. Experimental and Toxicologic Pathology, 2000, 52, 303-307.	2.1	2
95	Topographic reorganization of the hand representation in cortical area 3b owl monkeys trained in a frequency-discrimination task. Journal of Neurophysiology, 1992, 67, 1031-1056.	1.8	782