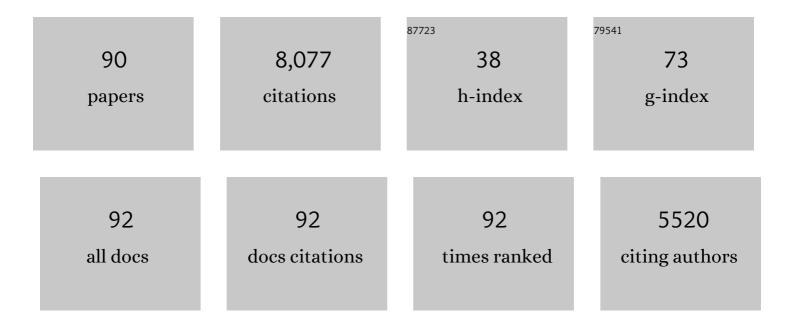
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	THE PLASTIC HUMAN BRAIN CORTEX. Annual Review of Neuroscience, 2005, 28, 377-401.	5.0	1,452
2	Visuo-haptic object-related activation in the ventral visual pathway. Nature Neuroscience, 2001, 4, 324-330.	7.1	621
3	Early â€~visual' cortex activation correlates with superior verbal memory performance in the blind. Nature Neuroscience, 2003, 6, 758-766.	7.1	562
4	Convergence of Visual and Tactile Shape Processing in the Human Lateral Occipital Complex. Cerebral Cortex, 2002, 12, 1202-1212.	1.6	375
5	Shape conveyed by visual-to-auditory sensory substitution activates the lateral occipital complex. Nature Neuroscience, 2007, 10, 687-689.	7.1	359
6	A Ventral Visual Stream Reading Center Independent of Visual Experience. Current Biology, 2011, 21, 363-368.	1.8	293
7	Transcranial magnetic stimulation of the occipital pole interferes with verbal processing in blind subjects. Nature Neuroscience, 2004, 7, 1266-1270.	7.1	256
8	Reading with Sounds: Sensory Substitution Selectively Activates the Visual Word Form Area in the Blind. Neuron, 2012, 76, 640-652.	3.8	243
9	Negative BOLD Differentiates Visual Imagery and Perception. Neuron, 2005, 48, 859-872.	3.8	197
10	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	4.0	180
11	Multisensory Processes: A Balancing Act across the Lifespan. Trends in Neurosciences, 2016, 39, 567-579.	4.2	177
12	Sensory substitution: Closing the gap between basic research and widespread practical visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 3-15.	2.9	165
13	What blindness can tell us about seeing again: merging neuroplasticity and neuroprostheses. Nature Reviews Neuroscience, 2005, 6, 71-77.	4.9	160
14	A Putative Model of Multisensory Object Representation. Brain Topography, 2009, 21, 269-274.	0.8	156
15	Visual Cortex Extrastriate Body-Selective Area Activation in Congenitally Blind People "Seeing―by Using Sounds. Current Biology, 2014, 24, 687-692.	1.8	142
16	EyeMusic: Introducing a "visual―colorful experience for the blind using auditory sensory substitution. Restorative Neurology and Neuroscience, 2014, 32, 247-257.	0.4	136
17	V1 Activation in Congenitally Blind Humans is Associated with Episodic Retrieval. Cerebral Cortex, 2005, 15, 1459-1468.	1.6	135
18	Combined Activation and Deactivation of Visual Cortex During Tactile Sensory Processing. Journal of Neurophysiology, 2007, 97, 1633-1641.	0.9	132

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#	Article	IF	CITATIONS
19	Functional connectivity of visual cortex in the blind follows retinotopic organization principles. Brain, 2015, 138, 1679-1695.	3.7	132
20	The large-Scale Organization of "Visual―Streams Emerges Without Visual Experience. Cerebral Cortex, 2012, 22, 1698-1709.	1.6	115
21	Cortical activity during tactile exploration of objects in blind and sighted humans. Restorative Neurology and Neuroscience, 2010, 28, 143-156.	0.4	107
22	The "EyeCaneâ€; a new electronic travel aid for the blind: Technology, behavior & swift learning. Restorative Neurology and Neuroscience, 2014, 32, 813-824.	0.4	107
23	A number-form area in the blind. Nature Communications, 2015, 6, 6026.	5.8	103
24	Multisensory visual–tactile object related network in humans: insights gained using a novel crossmodal adaptation approach. Experimental Brain Research, 2009, 198, 165-182.	0.7	101
25	Extensive Cochleotopic Mapping of Human Auditory Cortical Fields Obtained with Phase-Encoding fMRI. PLoS ONE, 2011, 6, e17832.	1.1	100
26	†Visual' Acuity of the Congenitally Blind Using Visual-to-Auditory Sensory Substitution. PLoS ONE, 2012, 7, e33136.	1.1	99
27	Negative blood oxygenation level dependent homunculus and somatotopic information in primary motor cortex and supplementary motor area. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18565-18570.	3.3	84
28	Origins of task-specific sensory-independent organization in the visual and auditory brain: neuroscience evidence, open questions and clinical implications. Current Opinion in Neurobiology, 2015, 35, 169-177.	2.0	81
29	Massive cortical reorganization in sighted Braille readers. ELife, 2016, 5, e10762.	2.8	81
30	Navigation Using Sensory Substitution in Real and Virtual Mazes. PLoS ONE, 2015, 10, e0126307.	1.1	75
31	Task Selectivity as a Comprehensive Principle for Brain Organization. Trends in Cognitive Sciences, 2017, 21, 307-310.	4.0	75
32	The brain as a flexible task machine. Current Opinion in Neurology, 2012, 25, 86-95.	1.8	71
33	New Whole-Body Sensory-Motor Gradients Revealed Using Phase-Locked Analysis and Verified Using Multivoxel Pattern Analysis and Functional Connectivity. Journal of Neuroscience, 2015, 35, 2845-2859.	1.7	66
34	The Occipital Cortex in the Blind. Current Directions in Psychological Science, 2005, 14, 306-311.	2.8	65
35	Sensory Substitution and the Neural Correlates of Navigation in Blindness. , 2018, , 167-200.		64
36	Increasing Accessibility to the Blind of Virtual Environments, Using a Virtual Mobility Aid Based On the "EyeCane": Feasibility Study. PLoS ONE, 2013, 8, e72555.	1.1	62

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37	Cross-sensory transfer of sensory-motor information: visuomotor learning affects performance on an audiomotor task, using sensory-substitution. Scientific Reports, 2012, 2, 949.	1.6	44
38	Disentangling unisensory and multisensory components in audiovisual integration using a novel multifrequency fMRI spectral analysis. NeuroImage, 2010, 52, 617-632.	2.1	42
39	Multisensory integration, sensory substitution and visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 1-2.	2.9	41
40	Positive and Negative Somatotopic BOLD Responses in Contralateral Versus Ipsilateral Penfield Homunculus. Cerebral Cortex, 2017, 27, 962-980.	1.6	41
41	Decoding Natural Sounds in Early "Visual―Cortex of Congenitally Blind Individuals. Current Biology, 2020, 30, 3039-3044.e2.	1.8	41
42	Increased functional connectivity between language and visually deprived areas in late and partial blindness. Neurolmage, 2016, 136, 162-173.	2.1	37
43	Negative BOLD in Sensory Cortices During Verbal Memory: A Component in Generating Internal Representations?. Brain Topography, 2009, 21, 221-231.	0.8	34
44	Are critical periods reversible in the adult brain? Insights on cortical specializations based on sensory deprivation studies. Neuroscience and Biobehavioral Reviews, 2020, 116, 494-507.	2.9	33
45	Color improves ââ,¬Å"visualââ,¬Â•acuity via sound. Frontiers in Neuroscience, 2014, 8, 358.	1.4	27
46	Discontinuity of cortical gradients reflects sensory impairment. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 16024-16029.	3.3	27
47	Intensity-based masking: A tool to improve functional connectivity results of resting-state fMRI. Human Brain Mapping, 2016, 37, 2407-2418.	1.9	27
48	The origins of metamodality in visual object area LO: Bodily topographical biases and increased functional connectivity to S1. NeuroImage, 2016, 127, 363-375.	2.1	26
49	Perception of Graphical Virtual Environments by Blind Users via Sensory Substitution. PLoS ONE, 2016, 11, e0147501.	1.1	25
50	Reorganization of early visual cortex functional connectivity following selective peripheral and central visual loss. Scientific Reports, 2017, 7, 43223.	1.6	24
51	Neuroplasticity: Unexpected Consequences of Early Blindness. Current Biology, 2015, 25, R998-R1001.	1.8	20
52	Reading in the dark: neural correlates and cross-modal plasticity for learning to read entire words without visual experience. Neuropsychologia, 2016, 83, 149-160.	0.7	20
53	Immediate improvement of speech-in-noise perception through multisensory stimulation via an auditory to tactile sensory substitution. Restorative Neurology and Neuroscience, 2019, 37, 155-166.	0.4	20
54	Neural and behavioral correlates of drawing in an early blind painter: A case study. Brain Research, 2008, 1242, 252-262.	1.1	19

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55	A Whole-Body Sensory-Motor Gradient is Revealed in the Medial Wall of the Parietal Lobe. Journal of Neuroscience, 2019, 39, 7882-7892.	1.7	18
56	Flexibility and Stability in Sensory Processing Revealed Using Visual-to-Auditory Sensory Substitution. Cerebral Cortex, 2015, 25, 2049-2064.	1.6	16
57	Large-Scale Brain Plasticity Following Blindness and the Use of Sensory Substitution Devices. , 2010, , 351-380.		16
58	Vision through other senses: Practical use of Sensory Substitution devices as assistive technology for visual rehabilitation. , 2014, , .		14
59	Waist-up protection for blind individuals using the EyeCane as a primary and secondary mobility aid. Restorative Neurology and Neuroscience, 2017, 35, 225-235.	0.4	12
60	The development of white matter structural changes during the process of deterioration of the visual field. Scientific Reports, 2019, 9, 2085.	1.6	12
61	The Implications of Brain Plasticity and Task Selectivity for Visual Rehabilitation of Blind and Visually Impaired Individuals. Contemporary Clinical Neuroscience, 2018, , 295-321.	0.3	11
62	'Visual' parsing can be taught quickly without visual experience during critical periods. Scientific Reports, 2015, 5, 15359.	1.6	8
63	A self-training program for sensory substitution devices. PLoS ONE, 2021, 16, e0250281.	1.1	8
64	The Effect of Irrelevant Environmental Noise on the Performance of Visual-to-Auditory Sensory Substitution Devices Used by Blind Adults. Multisensory Research, 2019, 32, 87-109.	0.6	7
65	Core knowledge of geometry can develop independently of visual experience. Cognition, 2021, 212, 104716.	1.1	7
66	Integration and binding in rehabilitative sensory substitution: Increasing resolution using a new Zooming-in approach. Restorative Neurology and Neuroscience, 2015, 34, 97-105.	0.4	6
67	Topographic maps and neural tuning for sensory substitution dimensions learned in adulthood in a congenital blind subject. NeuroImage, 2021, 235, 118029.	2.1	6
68	Neurophysiological Mechanisms Underlying Plastic Changes and Rehabilitation following Sensory Loss in Blindness and Deafness. Frontiers in Neuroscience, 2011, , 395-422.	0.0	6
69	Neurophysiological Mechanisms Underlying Plastic Changes and Rehabilitation following Sensory Loss in Blindness and Deafness. Frontiers in Neuroscience, 2011, , 395-422.	0.0	6
70	A case study in phenomenology of visual experience with retinal prosthesis versus visual-to-auditory sensory substitution. Neuropsychologia, 2022, , 108305.	0.7	6
71	Social Sensing. , 2016, , .		5
72	Backward spatial perception can be augmented through a novel visual-to-auditory sensory substitution algorithm. Scientific Reports, 2021, 11, 11944.	1.6	4

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73	The sound of reading: Color-to-timbre substitution boosts reading performance via OVAL, a novel auditory orthography optimized for visual-to-auditory mapping. PLoS ONE, 2020, 15, e0242619.	1.1	4
74	Congenitally blind adults can learn to identify face-shapes via auditory sensory substitution and successfully generalize some of the learned features. Scientific Reports, 2022, 12, 4330.	1.6	4
75	Applying Plasticity to Visual Rehabilitation in Adulthood. , 2012, , 229-254.		3
76	Virtually zooming-in with sensory substitution for blind users. , 2015, , .		3
77	Depth-To-Audio Sensory Substitution for Increasing the Accessibility of Virtual Environments. Lecture Notes in Computer Science, 2014, , 398-406.	1.0	3
78	Vision-deprived virtual navigation patterns using depth cues & the effect of extended sensory range. , 2014, , .		2
79	Body Ownership of Anatomically Implausible Hands in Virtual Reality. Frontiers in Human Neuroscience, 2021, 15, 713931.	1.0	2
80	Seeing with Your Ears: A Wondrous Journey Across the Senses. Frontiers for Young Minds, 2013, 1, .	0.8	1
81	Virtual Self-Training of a Sensory Substitution Device for Blind Individuals. , 2019, , .		1
82	The Topo-Speech Algorithm: An intuitive Sensory Substitution for Spatial Information. , 2019, , .		1
83	A systematic computerized training program for using Sensory Substitution Devices in real-life. , 2019, , .		1
84	Task-selectivity in the sensory deprived brain and sensory substitution approaches for clinical practice. , 2020, , 321-342.		1
85	Applying a novel visual-to-touch sensory substitution for studying tactile reference frames. Scientific Reports, 2021, 11, 10636.	1.6	1
86	The mapping and reconstruction of the brain's mind eye in the absence of visual experience: a population receptive field mapping of soundscape space. Journal of Vision, 2018, 18, 1228.	0.1	0
87	Title is missing!. , 2020, 15, e0242619.		0
88	Title is missing!. , 2020, 15, e0242619.		0
89	Title is missing!. , 2020, 15, e0242619.		0
90	Title is missing!. , 2020, 15, e0242619.		0