

Amir Amedi

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

8,077
citations

87723

38
h-index

79541

73
g-index

92
all docs

92
docs citations

92
times ranked

5520
citing authors

#	ARTICLE	IF	CITATIONS
1	Congenitally blind adults can learn to identify face-shapes via auditory sensory substitution and successfully generalize some of the learned features. <i>Scientific Reports</i> , 2022, 12, 4330.	1.6	4
2	A case study in phenomenology of visual experience with retinal prosthesis versus visual-to-auditory sensory substitution. <i>Neuropsychologia</i> , 2022, , 108305.	0.7	6
3	A self-training program for sensory substitution devices. <i>PLoS ONE</i> , 2021, 16, e0250281.	1.1	8
4	Applying a novel visual-to-touch sensory substitution for studying tactile reference frames. <i>Scientific Reports</i> , 2021, 11, 10636.	1.6	1
5	Backward spatial perception can be augmented through a novel visual-to-auditory sensory substitution algorithm. <i>Scientific Reports</i> , 2021, 11, 11944.	1.6	4
6	Core knowledge of geometry can develop independently of visual experience. <i>Cognition</i> , 2021, 212, 104716.	1.1	7
7	Topographic maps and neural tuning for sensory substitution dimensions learned in adulthood in a congenital blind subject. <i>NeuroImage</i> , 2021, 235, 118029.	2.1	6
8	Body Ownership of Anatomically Implausible Hands in Virtual Reality. <i>Frontiers in Human Neuroscience</i> , 2021, 15, 713931.	1.0	2
9	Are critical periods reversible in the adult brain? Insights on cortical specializations based on sensory deprivation studies. <i>Neuroscience and Biobehavioral Reviews</i> , 2020, 116, 494-507.	2.9	33
10	Decoding Natural Sounds in Early "Visual" Cortex of Congenitally Blind Individuals. <i>Current Biology</i> , 2020, 30, 3039-3044.e2.	1.8	41
11	Task-selectivity in the sensory deprived brain and sensory substitution approaches for clinical practice. , 2020, , 321-342.		1
12	The sound of reading: Color-to-timbre substitution boosts reading performance via OVAL, a novel auditory orthography optimized for visual-to-auditory mapping. <i>PLoS ONE</i> , 2020, 15, e0242619.	1.1	4
13	Title is missing!. , 2020, 15, e0242619.		0
14	Title is missing!. , 2020, 15, e0242619.		0
15	Title is missing!. , 2020, 15, e0242619.		0
16	Title is missing!. , 2020, 15, e0242619.		0
17	A Whole-Body Sensory-Motor Gradient is Revealed in the Medial Wall of the Parietal Lobe. <i>Journal of Neuroscience</i> , 2019, 39, 7882-7892.	1.7	18
18	Immediate improvement of speech-in-noise perception through multisensory stimulation via an auditory to tactile sensory substitution. <i>Restorative Neurology and Neuroscience</i> , 2019, 37, 155-166.	0.4	20

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19	The development of white matter structural changes during the process of deterioration of the visual field. <i>Scientific Reports</i> , 2019, 9, 2085.	1.6	12
20	The Effect of Irrelevant Environmental Noise on the Performance of Visual-to-Auditory Sensory Substitution Devices Used by Blind Adults. <i>Multisensory Research</i> , 2019, 32, 87-109.	0.6	7
21	Virtual Self-Training of a Sensory Substitution Device for Blind Individuals. , 2019, , .		1
22	The Topo-Speech Algorithm: An intuitive Sensory Substitution for Spatial Information. , 2019, , .		1
23	A systematic computerized training program for using Sensory Substitution Devices in real-life. , 2019, , .		1
24	Sensory Substitution and the Neural Correlates of Navigation in Blindness. , 2018, , 167-200.		64
25	The Implications of Brain Plasticity and Task Selectivity for Visual Rehabilitation of Blind and Visually Impaired Individuals. <i>Contemporary Clinical Neuroscience</i> , 2018, , 295-321.	0.3	11
26	The mapping and reconstruction of the brain's mind eye in the absence of visual experience: a population receptive field mapping of soundscape space. <i>Journal of Vision</i> , 2018, 18, 1228.	0.1	0
27	Reorganization of early visual cortex functional connectivity following selective peripheral and central visual loss. <i>Scientific Reports</i> , 2017, 7, 43223.	1.6	24
28	Task Selectivity as a Comprehensive Principle for Brain Organization. <i>Trends in Cognitive Sciences</i> , 2017, 21, 307-310.	4.0	75
29	Positive and Negative Somatotopic BOLD Responses in Contralateral Versus Ipsilateral Penfield Homunculus. <i>Cerebral Cortex</i> , 2017, 27, 962-980.	1.6	41
30	Waist-up protection for blind individuals using the EyeCane as a primary and secondary mobility aid. <i>Restorative Neurology and Neuroscience</i> , 2017, 35, 225-235.	0.4	12
31	The origins of metamodality in visual object area LO: Bodily topographical biases and increased functional connectivity to S1. <i>NeuroImage</i> , 2016, 127, 363-375.	2.1	26
32	Social Sensing. , 2016, , .		5
33	Increased functional connectivity between language and visually deprived areas in late and partial blindness. <i>NeuroImage</i> , 2016, 136, 162-173.	2.1	37
34	Multisensory Processes: A Balancing Act across the Lifespan. <i>Trends in Neurosciences</i> , 2016, 39, 567-579.	4.2	177
35	Intensity-based masking: A tool to improve functional connectivity results of resting-state fMRI. <i>Human Brain Mapping</i> , 2016, 37, 2407-2418.	1.9	27
36	Reading in the dark: neural correlates and cross-modal plasticity for learning to read entire words without visual experience. <i>Neuropsychologia</i> , 2016, 83, 149-160.	0.7	20

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37	Perception of Graphical Virtual Environments by Blind Users via Sensory Substitution. PLoS ONE, 2016, 11, e0147501.	1.1	25
38	Massive cortical reorganization in sighted Braille readers. ELife, 2016, 5, e10762.	2.8	81
39	'Visual' parsing can be taught quickly without visual experience during critical periods. Scientific Reports, 2015, 5, 15359.	1.6	8
40	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
41	Navigation Using Sensory Substitution in Real and Virtual Mazes. PLoS ONE, 2015, 10, e0126307.	1.1	75
42	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
43	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
44	Functional connectivity of visual cortex in the blind follows retinotopic organization principles. Brain, 2015, 138, 1679-1695.	3.7	132
45	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
46	Virtually zooming-in with sensory substitution for blind users. , 2015, , .		3
47	A number-form area in the blind. Nature Communications, 2015, 6, 6026.	5.8	103
48	Flexibility and Stability in Sensory Processing Revealed Using Visual-to-Auditory Sensory Substitution. Cerebral Cortex, 2015, 25, 2049-2064.	1.6	16
49	Origins of the specialization for letters and numbers in ventral occipitotemporal cortex. Trends in Cognitive Sciences, 2015, 19, 374-382.	4.0	180
50	Neuroplasticity: Unexpected Consequences of Early Blindness. Current Biology, 2015, 25, R998-R1001.	1.8	20
51	Color improves "visual" acuity via sound. Frontiers in Neuroscience, 2014, 8, 358.	1.4	27
52	The "EyeCane", a new electronic travel aid for the blind: Technology, behavior & swift learning. Restorative Neurology and Neuroscience, 2014, 32, 813-824.	0.4	107
53	Vision-deprived virtual navigation patterns using depth cues & the effect of extended sensory range. , 2014, , .		2
54	EyeMusic: Introducing a "visual" colorful experience for the blind using auditory sensory substitution. Restorative Neurology and Neuroscience, 2014, 32, 247-257.	0.4	136

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55	Vision through other senses: Practical use of Sensory Substitution devices as assistive technology for visual rehabilitation. , 2014, , .		14
56	Multisensory integration, sensory substitution and visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 1-2.	2.9	41
57	Sensory substitution: Closing the gap between basic research and widespread practical visual rehabilitation. Neuroscience and Biobehavioral Reviews, 2014, 41, 3-15.	2.9	165
58	Visual Cortex Extrastriate Body-Selective Area Activation in Congenitally Blind People "Seeing" by Using Sounds. Current Biology, 2014, 24, 687-692.	1.8	142
59	Depth-To-Audio Sensory Substitution for Increasing the Accessibility of Virtual Environments. Lecture Notes in Computer Science, 2014, , 398-406.	1.0	3
60	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
61	Seeing with Your Ears: A Wondrous Journey Across the Senses. Frontiers for Young Minds, 2013, 1, .	0.8	1
62	The brain as a flexible task machine. Current Opinion in Neurology, 2012, 25, 86-95.	1.8	71
63	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
64	The large-Scale Organization of "Visual" Streams Emerges Without Visual Experience. Cerebral Cortex, 2012, 22, 1698-1709.	1.6	115
65	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
66	Reading with Sounds: Sensory Substitution Selectively Activates the Visual Word Form Area in the Blind. Neuron, 2012, 76, 640-652.	3.8	243
67	"Visual"™ Acuity of the Congenitally Blind Using Visual-to-Auditory Sensory Substitution. PLoS ONE, 2012, 7, e33136.	1.1	99
68	Applying Plasticity to Visual Rehabilitation in Adulthood. , 2012, , 229-254.		3
69	A Ventral Visual Stream Reading Center Independent of Visual Experience. Current Biology, 2011, 21, 363-368.	1.8	293
70	Neurophysiological Mechanisms Underlying Plastic Changes and Rehabilitation following Sensory Loss in Blindness and Deafness. Frontiers in Neuroscience, 2011, , 395-422.	0.0	6
71	Extensive Cochleotopic Mapping of Human Auditory Cortical Fields Obtained with Phase-Encoding fMRI. PLoS ONE, 2011, 6, e17832.	1.1	100
72	Neurophysiological Mechanisms Underlying Plastic Changes and Rehabilitation following Sensory Loss in Blindness and Deafness. Frontiers in Neuroscience, 2011, , 395-422.	0.0	6

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73	Disentangling unisensory and multisensory components in audiovisual integration using a novel multifrequency fMRI spectral analysis. <i>NeuroImage</i> , 2010, 52, 617-632.	2.1	42
74	Cortical activity during tactile exploration of objects in blind and sighted humans. <i>Restorative Neurology and Neuroscience</i> , 2010, 28, 143-156.	0.4	107
75	Large-Scale Brain Plasticity Following Blindness and the Use of Sensory Substitution Devices. , 2010, , 351-380.		16
76	A Putative Model of Multisensory Object Representation. <i>Brain Topography</i> , 2009, 21, 269-274.	0.8	156
77	Negative BOLD in Sensory Cortices During Verbal Memory: A Component in Generating Internal Representations?. <i>Brain Topography</i> , 2009, 21, 221-231.	0.8	34
78	Multisensory visual-tactile object related network in humans: insights gained using a novel crossmodal adaptation approach. <i>Experimental Brain Research</i> , 2009, 198, 165-182.	0.7	101
79	Neural and behavioral correlates of drawing in an early blind painter: A case study. <i>Brain Research</i> , 2008, 1242, 252-262.	1.1	19
80	Combined Activation and Deactivation of Visual Cortex During Tactile Sensory Processing. <i>Journal of Neurophysiology</i> , 2007, 97, 1633-1641.	0.9	132
81	Shape conveyed by visual-to-auditory sensory substitution activates the lateral occipital complex. <i>Nature Neuroscience</i> , 2007, 10, 687-689.	7.1	359
82	What blindness can tell us about seeing again: merging neuroplasticity and neuroprostheses. <i>Nature Reviews Neuroscience</i> , 2005, 6, 71-77.	4.9	160
83	V1 Activation in Congenitally Blind Humans is Associated with Episodic Retrieval. <i>Cerebral Cortex</i> , 2005, 15, 1459-1468.	1.6	135
84	The Occipital Cortex in the Blind. <i>Current Directions in Psychological Science</i> , 2005, 14, 306-311.	2.8	65
85	Negative BOLD Differentiates Visual Imagery and Perception. <i>Neuron</i> , 2005, 48, 859-872.	3.8	197
86	THE PLASTIC HUMAN BRAIN CORTEX. <i>Annual Review of Neuroscience</i> , 2005, 28, 377-401.	5.0	1,452
87	Transcranial magnetic stimulation of the occipital pole interferes with verbal processing in blind subjects. <i>Nature Neuroscience</i> , 2004, 7, 1266-1270.	7.1	256
88	Early visual cortex activation correlates with superior verbal memory performance in the blind. <i>Nature Neuroscience</i> , 2003, 6, 758-766.	7.1	562
89	Convergence of Visual and Tactile Shape Processing in the Human Lateral Occipital Complex. <i>Cerebral Cortex</i> , 2002, 12, 1202-1212.	1.6	375
90	Visuo-haptic object-related activation in the ventral visual pathway. <i>Nature Neuroscience</i> , 2001, 4, 324-330.	7.1	621