Adrianus Johannes Van Opstal

List of Publications by Year
in descending order

66 papers	2,202 citations	257450 24 h-index	243625 44 g-index
74 all docs	74 docs citations	74 times ranked	1207 citing authors

#	Article	IF	Citations
1	Relearning sound localization with new ears. Nature Neuroscience, 1998, 1, 417-421.	14.8	368
2	Contribution of Head Shadow and Pinna Cues to Chronic Monaural Sound Localization. Journal of Neuroscience, 2004, 24, 4163-4171.	3.6	157
3	Spectro-temporal factors in two-dimensional human sound localization. Journal of the Acoustical Society of America, 1998, 103, 2634-2648.	1.1	155
4	Plasticity in human sound localization induced by compressed spatial vision. Nature Neuroscience, 2003, 6, 175-181.	14.8	133
5	Relearning Sound Localization with a New Ear. Journal of Neuroscience, 2005, 25, 5413-5424.	3.6	121
6	Involvement of Monkey Inferior Colliculus in Spatial Hearing. Journal of Neuroscience, 2004, 24, 4145-4156.	3.6	88
7	Sound Localization Under Perturbed Binaural Hearing. Journal of Neurophysiology, 2007, 97, 715-726.	1.8	80
8	Age-related Hearing Loss and Ear Morphology Affect Vertical but not Horizontal Sound-Localization Performance. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 261-273.	1.8	68
9	The influence of duration and level on human sound localization. Journal of the Acoustical Society of America, 2004, 115, 1705-1713.	1.1	66
10	Role of Monkey Nucleus Reticularis Tegmenti Pontis in the Stabilization of Listingâ€™s Plane. Journal of Neuroscience, 1996, 16, 7284-7296.	3.6	63
11	Dynamic Sound Localization during Rapid Eye-Head Gaze Shifts. Journal of Neuroscience, 2004, 24, 9291-9302.	3.6	63
12	Single-sided deafness and directional hearing: contribution of spectral cues and high-frequency hearing loss in the hearing ear. Frontiers in Neuroscience, 2014, 8, 188.	2.8	47
13	Contribution of monaural and binaural cues to sound localization in listeners with acquired unilateral conductive hearing loss: Improved directional hearing with a bone-conduction device. Hearing Research, 2012, 286, 9-18.	2.0	43
14	Sound-localization performance of patients with single-sided deafness is not improved when listening with a bone-conduction device. Hearing Research, 2019, 372, 62-68.	2.0	42
15	Improved Horizontal Directional Hearing in Bone Conduction Device Users with Acquired Unilateral Conductive Hearing Loss. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 1-11.	1.8	41
16	Spectrotemporal Response Properties of Inferior Colliculus Neurons in Alert Monkey. Journal of Neuroscience, 2009, 29, 9725-9739.	3.6	38
17	The effect of spatialâ€“temporal audiovisual disparities on saccades in a complex scene. Experimental Brain Research, 2009, 198, 425-437.	1.5	38
18	Temporal Cortex Activation to Audiovisual Speech in Normal-Hearing and Cochlear Implant Users Measured with Functional Near-Infrared Spectroscopy. Frontiers in Human Neuroscience, 2016, 10, 48.	2.0	34

#	Article	IF	Citations
19	Dynamic parallelism for synaptic updating in GPU-accelerated spiking neural network simulations. Neurocomputing, 2018, 302, 55-65.	5.9	33
20	The Principle of Inverse Effectiveness in Audiovisual Speech Perception. Frontiers in Human Neuroscience, 2019, 13, 335.	2.0	33
21	Acquired prior knowledge modulates audiovisual integration. European Journal of Neuroscience, 2010, 31, 1763-1771.	2.6	31
22	Bayesian reconstruction of sound localization cues from responses to random spectra. Biological Cybernetics, 2002, 86, 305-316.	1.3	30
23	Pinna Cues Determine Orienting Response Modes to Synchronous Sounds in Elevation. Journal of Neuroscience, 2010, 30, 194-204.	3.6	29
24	Gaze Orienting in Dynamic Visual Double Steps. Journal of Neurophysiology, 2005, 94, 4300-4313.	1.8	26
25	Frequency-dependent loudness balancing in bimodal cochlear implant users. Acta Oto-Laryngologica, 2016, 136, 775-781.	0.9	25
26	Horizontal sound localization in cochlear implant users with a contralateral hearing aid. Hearing Research, 2016, 336, 72-82.	2.0	24
27	A spiking neural network model of the midbrain superior colliculus that generates saccadic motor commands. Biological Cybernetics, 2017, 111, 249-268.	1.3	24
28	The Auditory Nerve. , 2016, , 147-169.		20
29	Influence of Static Eye and Head Position on Tone-Evoked Gaze Shifts. Journal of Neuroscience, 2011, 31, 17496-17504.	3.6	16
30	Spectrotemporal Response Properties of Core Auditory Cortex Neurons in Awake Monkey. PLoS ONE, 2015, 10, e0116118.	2.5	16
31	Spectral Weighting Underlies Perceived Sound Elevation. Scientific Reports, 2019, 9, 1642.	3.3	15
32	Reconstructing spectral cues for sound localization from responses to rippled noise stimuli. PLoS ONE, 2017, 12, e0174185.	2.5	14
33	Accuracy-Precision Trade-off in Human Sound Localisation. Scientific Reports, 2018, 8, 16399.	3.3	14
34	Taskâ€related preparatory modulations multiply with acoustic processing in monkey auditory cortex. European Journal of Neuroscience, 2014, 39, 1538-1550.	2.6	13
35	Stable bottomâ€up processing during dynamic topâ€down modulations in monkey auditory cortex. European Journal of Neuroscience, 2013, 37, 1830-1842.	2.6	12
36	Learning to localise weakly-informative sound spectra with and without feedback. Scientific Reports, 2018, 8, 17933.	3.3	11

#	Article	IF	Citations
37	Contribution of spectral pinna cues for sound localization in children with congenital unilateral conductive hearing loss after hearing rehabilitation. Hearing Research, 2020, 385, 107847.	2.0	11
38	Spatial Hearing by Bilateral Cochlear Implant Users With Temporal Fine-Structure Processing. Frontiers in Neurology, 2020, 11, 915.	2.4	11
39	The effect of head roll on perceived auditory zenith. Experimental Brain Research, 2011, 213, 235-243.	1.5	10
40	Level-weighted averaging in elevation to synchronous amplitude-modulated sounds. Journal of the Acoustical Society of America, 2017, 142, 3094-3103.	1.1	10
41	Testing the Precedence Effect in the Median Plane Reveals Backward Spatial Masking of Sound. Scientific Reports, 2018, 8, 8670.	3.3	10
42	Differential Adaptation in Azimuth and Elevation to Acute Monaural Spatial Hearing after Training with Visual Feedback. ENeuro, 2019, 6, ENEURO.0219-19.2019.	1.9	10
43	Sound Localization in Real-Time Vocoded Cochlear-Implant Simulations With Normal-Hearing Listeners. Trends in Hearing, 2019, 23, 233121651984733.	1.3	9
44	MEASURING CORTICAL ACTIVITY DURING AUDITORY PROCESSING WITH FUNCTIONAL NEAR-INFRARED SPECTROSCOPY. Journal of Hearing Science, 2018, 8, 9-18.	0.1	9
45	Effect of extreme adaptive frequency compression in bimodal listeners on sound localization and speech perception. Cochlear Implants International, 2017, 18, 266-277.	1.2	8
46	Microstimulation in a spiking neural network model of the midbrain superior colliculus. PLoS Computational Biology, 2019, 15, e1006522.	3.2	7
47	Maps and sensorimotor transformations for eye-head gaze shifts: Role of the midbrain superior colliculus. Progress in Brain Research, 2019, 249, 19-33.	1.4	7
48	Perceived Target Range Shapes Human Sound-Localization Behavior. ENeuro, 2019, 6, ENEURO.0111-18.2019.	1.9	7
49	Speed-accuracy tradeoffs influence the main sequence of saccadic eye movements. Scientific Reports, 2022, 12, 5262.	3.3	7
50	An Individual With Hearing Preservation and Bimodal Hearing Using a Cochlear Implant and Hearing Aids Has Perturbed Sound Localization but Preserved Speech Perception. Frontiers in Neurology, 2019, 10, 637.	2.4	6
51	Modelling 3D saccade generation by feedforward optimal control. PLoS Computational Biology, 2021, 17, e1008975.	3.2	6
52	Experimental Test of Spatial Updating Models for Monkey Eye-Head Gaze Shifts. PLoS ONE, 2012, 7, e47606.	2.5	6
53	Applying double-magnetic induction to measure head-unrestrained gaze shifts: calibration and validation in monkey. Biological Cybernetics, 2010, 103, 415-432.	1.3	5
54	Estimating multiple latencies in the auditory system from auditory steady-state responses on a single EEG channel. Scientific Reports, 2021, 11, 2150.	3.3	5

#	Article	IF	Citations
55	Auditoryâ€"prefrontal axonal connectivity in the macaque cortex: Quantitative assessment of processing streams. Brain and Language, 2014, 135, 73-84.	1.6	4
56	A spiking neural network model of the Superior Colliculus that is robust to changes in the spatialâ€"temporal input. Scientific Reports, 2022, 12, 6916.	3.3	4
57	Modeling auditory-visual evoked eye-head gaze shifts in dynamic multisteps. Journal of Neurophysiology, 2018, 119, 1795-1808.	1.8	3
58	Amount of Frequency Compression in Bimodal Cochlear Implant Users Is a Poor Predictor for Audibility and Spatial Hearing. Journal of Speech, Language, and Hearing Research, 2021, , 1-14.	1.6	3
59	Double Stimulation in a Spiking Neural Network Model of the Midbrain Superior Colliculus. Frontiers in Applied Mathematics and Statistics, 2018, 4, 47.	1.3	2
60	200 years Franciscus Cornelis Donders. Strabismus, 2018, 26, 159-162.	0.7	2
61	Adaptive Response Behavior in the Pursuit of Unpredictably Moving Sounds. ENeuro, 2021, 8, ENEURO.0556-20.2021.	1.9	2
62	Sound Localization Plasticity. , 2016, , 333-360.		1
63	Spatiotemporal factors influence sound-source segregation in localization behavior. Journal of Neurophysiology, 2021, 125, 556-567.	1.8	1
64	Towards Real-Time Detection of Auditory Steady-State Responses: A Comparative Study. IEEE Access, 2021, 9, 108975-108991.	4.2	1
65	Electrical stimulation in a spiking neural network model of monkey superior colliculus. Progress in Brain Research, 2019, 249, 153-166.	1.4	0
66	Multisensory Integration-Attention Trade-Off in Cochlear-Implanted Deaf Individuals. Frontiers in Neuroscience, 2021, 15, 683804.	2.8	0