Marcel G A Van Der Heijden

List of Publications by Year
in descending order

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71	7,637	30	66
papers	citations	h-index	g-index
		159585	102487

73	73	73	7810
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Keystone taxa as drivers of microbiome structure and functioning. Nature Reviews Microbiology, 2018, 16, 567-576.	28.6	1,516
2	Mycorrhizal ecology and evolution: the past, the present, and the future. New Phytologist, 2015, 205, 1406-1423.	7.3	1,390
3	An Underground Revolution: Biodiversity and Soil Ecological Engineering for Agricultural Sustainability. Trends in Ecology and Evolution, 2016, 31, 440-452.	8.7	879
4	Agricultural intensification reduces microbial network complexity and the abundance of keystone taxa in roots. ISME Journal, 2019, 13, 1722-1736.	9.8	716
5	Socialism in soil? The importance of mycorrhizal fungal networks for facilitation in natural ecosystems. Journal of Ecology, 2009, 97, 1139-1150.	4.0	486
6	Plantâ€“Soil Feedback: Bridging Natural and Agricultural Sciences. Trends in Ecology and Evolution, 2018, 33, 129-142.	8.7	249
7	The role of arbuscular mycorrhizas in reducing soil nutrient loss. Trends in Plant Science, 2015, 20, 283-290.	8.8	242
8	Non-Mycorrhizal Plants: The Exceptions that Prove the Rule. Trends in Plant Science, 2018, 23, 577-587.	8.8	131
9	Frequency selectivity in Old-World monkeys corroborates sharp cochlear tuning in humans. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 17516-17520.	7.1	116
10	Vibration hotspots reveal longitudinal funneling of sound-evoked motion in the mammalian cochlea. Nature Communications, 2018, 9, 3054.	12.8	111
11	Temporal Properties of Responses to Broadband Noise in the Auditory Nerve. Journal of Neurophysiology, 2004, 91, 2051-2065.	1.8	110
12	Binaural and cochlear disparities. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12917-12922.	7.1	101
13	Arbuscular mycorrhizal fungi reduce growth and infect roots of the nonâ€host plant <i><scp>A</scp>rabidopsis thaliana</i>. Plant, Cell and Environment, 2013, 36, 1926-1937.	5.7	97
14	Correlation Index: A new metric to quantify temporal coding. Hearing Research, 2006, 216-217, 19-30.	2.0	91
15	Directional Hearing by Linear Summation of Binaural Inputs at the Medial Superior Olive. Neuron, 2013, 78, 936-948.	8.1	90
16	Factors Controlling the Inputâ€“Output Relationship of Spherical Bushy Cells in the Gerbil Cochlear Nucleus. Journal of Neuroscience, 2011, 31, 4260-4273.	3.6	78
17	How Secure Is In Vivo Synaptic Transmission at the Calyx of Held?. Journal of Neuroscience, 2008, 28, 10206-10219.	3.6	70
18	Cochlear Phase and Amplitude Retrieved from the Auditory Nerve at Arbitrary Frequencies. Journal of Neuroscience, 2003, 23, 9194-9198.	3.6	66

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19	The frequency limit of outer hair cell motility measured in vivo. ELife, 2019, 8, .	6.0	60
20	Panoramic Measurements of the Apex of the Cochlea. Journal of Neuroscience, 2006, 26, 11462-11473.	3.6	59
21	Enhanced Temporal Response Properties of Anteroventral Cochlear Nucleus Neurons to Broadband Noise. Journal of Neuroscience, 2005, 25, 1560-1570.	3.6	56
22	Masking with interaurally delayed stimuli: The use of â€œinternalâ€•delays in binaural detection. Journal of the Acoustical Society of America, 1999, 105, 388-399.	1.1	52
23	Auditory Midbrain and Nerve Responses to Sinusoidal Variations in Interaural Correlation. Journal of Neuroscience, 2006, 26, 279-289.	3.6	50
24	Molecular dialogue between arbuscular mycorrhizal fungi and the nonhost plant <i>Arabidopsis thaliana</i> switches from initial detection to antagonism. New Phytologist, 2019, 223, 867-881.	7.3	49
25	Response Characteristics in the Apex of the Gerbil Cochlea Studied Through Auditory Nerve Recordings. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 301-316.	1.8	46
26	Basilar Membrane Responses to Tones and Tone Complexes: Nonlinear Effects of Stimulus Intensity. JARO - Journal of the Association for Research in Otolaryngology, 2012, 13, 785-798.	1.8	46
27	Binaural detection as a function of interaural correlation and bandwidth of masking noise: Implications for estimates of spectral resolution. Journal of the Acoustical Society of America, 1998, 103, 1609-1614.	1.1	43
28	Microbiome-on-a-Chip: New Frontiers in Plantâ€“Microbiota Research. Trends in Microbiology, 2017, 25, 610-613.	7.7	42
29	Reverse Cochlear Propagation in the Intact Cochlea of the Gerbil: Evidence for Slow Traveling Waves. Journal of Neurophysiology, 2010, 103, 1448-1455.	1.8	37
30	Decorrelation Sensitivity of Auditory Nerve and Anteroventral Cochlear Nucleus Fibers to Broadband and Narrowband Noise. Journal of Neuroscience, 2006, 26, 96-108.	3.6	33
31	A new way to account for binaural detection as a function of interaural noise correlation. Journal of the Acoustical Society of America, 1997, 101, 1019-1022.	1.1	32
32	Frequency selectivity without resonance in a fluid waveguide. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 14548-14552.	7.1	31
33	Early Binaural Hearing: The Comparison of Temporal Differences at the Two Ears. Annual Review of Neuroscience, 2019, 42, 433-457.	10.7	29
34	Energy Flux in the Cochlea: Evidence Against Power Amplification of the Traveling Wave. JARO - Journal of the Association for Research in Otolaryngology, 2015, 16, 581-597.	1.8	28
35	The role of envelope fluctuations in spectral masking. Journal of the Acoustical Society of America, 1995, 97, 1800-1807.	1.1	24
36	The Spatial Buildup of Compression and Suppression in the Mammalian Cochlea. JARO - Journal of the Association for Research in Otolaryngology, 2013, 14, 523-545.	1.8	24

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37	Impact of organic and conventional farming systems on wheat grain uptake and soil bioavailability of zinc and cadmium. Science of the Total Environment, 2018, 639, 608-616.	8.0	24
38	Temporal Damping in Response to Broadband Noise. I. Inferior Colliculus. Journal of Neurophysiology, 2005, 93, 1857-1870.	1.8	23
39	Comparison of Bandwidths in the Inferior Colliculus and the Auditory Nerve. I. Measurement Using a Spectrally Manipulated Stimulus. Journal of Neurophysiology, 2007, 98, 2566-2579.	1.8	23
40	Interaural Correlation Fails to Account for Detection in a Classic Binaural Task: Dynamic ITDs Dominate N0SÏ€ Detection. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 113-131.	1.8	22
41	A coumarin exudation pathway mitigates arbuscular mycorrhizal incompatibility in Arabidopsis thaliana. Plant Molecular Biology, 2021, 106, 319-334.	3.9	22
42	Cochlear gain control. Journal of the Acoustical Society of America, 2005, 117, 1223-1233.	1.1	21
43	Subcortical input heterogeneity in the mouse inferior colliculus. Journal of Physiology, 2011, 589, 3955-3967.	2.9	20
44	Predicting binaural responses from monaural responses in the gerbil medial superior olive. Journal of Neurophysiology, 2016, 115, 2950-2963.	1.8	19
45	Comparison of Bandwidths in the Inferior Colliculus and the Auditory Nerve. II: Measurement Using a Temporally Manipulated Stimulus. Journal of Neurophysiology, 2008, 100, 2312-2327.	1.8	15
46	Using an excitation-pattern model to predict auditory masking. Hearing Research, 1994, 80, 38-52.	2.0	14
47	Rectifying and sluggish: Outer hair cells as regulators rather than amplifiers. Hearing Research, 2022, 423, 108367.	2.0	13
48	A Test of the Stereausis Hypothesis for Sound Localization in Mammals. Journal of Neuroscience, 2017, 37, 7278-7289.	3.6	12
49	Tuned vibration modes in a miniature hearing organ: Insights from the bushcricket. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	12
50	The Speed of Auditory Low-Side Suppression. Journal of Neurophysiology, 2005, 93, 201-209.	1.8	11
51	Dependence of binaural and cochlear â€œbest delaysâ€•on characteristic frequency. , 2005, , 477-483.		10
52	Temporal Damping in Response to Broadband Noise. II. Auditory Nerve. Journal of Neurophysiology, 2008, 99, 1942-1952.	1.8	10
53	Responses of Auditory Nerve and Anteroventral Cochlear Nucleus Fibers to Broadband and Narrowband Noise: Implications for the Sensitivity to Interaural Delays. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 485-502.	1.8	10
54	Binaural detection with spectrally nonoverlapping signals and maskers: Evidence for masking by aural distortion products. Journal of the Acoustical Society of America, 1997, 102, 2966-2972.	1.1	9

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55	PERN: an EUâ€"Russia initiative for rhizosphere microbial resources. Trends in Biotechnology, 2015, 33, 377-380.	9.3	9
56	Distortion Product Otoacoustic Emissions Evoked by Tone Complexes. JARO - Journal of the Association for Research in Otolaryngology, 2011, 12, 29-44.	1.8	8
57	The Interaural Time Difference Pathway: a Comparison of Spectral Bandwidth and Correlation Sensitivity at Three Anatomical Levels. JARO - Journal of the Association for Research in Otolaryngology, 2014, 15, 203-218.	1.8	7
58	Spatial profiles of sound-evoked vibration in the gerbil cochlea. AIP Conference Proceedings, 2018, , .	0.4	7
59	Strategies for Environmentally Sound Soil Ecological Engineering: A Reply to Machado et al.. Trends in Ecology and Evolution, 2017, 32, 10-12.	8.7	6
60	Dynamics of Cochlear Nonlinearity. Advances in Experimental Medicine and Biology, 2016, 894, 267-273.	1.6	6
61	Otoacoustic Estimates of Cochlear Tuning: Testing Predictions in Macaque. AIP Conference Proceedings, 2011, 1403, 286-292.	0.4	5
62	Wave propagation in the mammalian cochlea. AIP Conference Proceedings, 2018, , .	0.4	4
63	The role of distortion products in masking by single bands of noise. Journal of the Acoustical Society of America, 1995, 98, 3125-3134.	1.1	2
64	Reply to Ren and Porsov: Reverse Propagation of Sounds in the Intact Cochlea. Journal of Neurophysiology, 2010, 104, 3733-3733.	1.8	2
65	Dynamic Aspects of Cochlear Microphonic Potentials. , 2011, , .		2
66	Slow dynamics of the amphibian tympanic membrane. AIP Conference Proceedings, 2015, , .	0.4	2
67	Questioning cochlear amplification. AIP Conference Proceedings, 2015, , .	0.4	2
68	A synaptic theory of internal delays. Journal of the Acoustical Society of America, 2018, 144, 2967-2970.	1.1	2
69	DISTORTION PRODUCT OTOACOUSTIC EMISSIONS EVOKED BY TONE COMPLEXES. , 2009, , .		1
70	The Cascaded Cochlea. , 2011, , .		0
71	Dynamic ITDs, Not ILDs, Underlie Binaural Detection of a Tone in Wideband Noise. , 2010, , 265-272.		0