

Marcel G A Van Der Heijden

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

7,637
citations

159585

30
h-index

102487

66
g-index

73
all docs

73
docs citations

73
times ranked

7810
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Rectifying and sluggish: Outer hair cells as regulators rather than amplifiers. <i>Hearing Research</i> , 2022, 423, 108367. | 2.0 | 13 |
| 2 | A coumarin exudation pathway mitigates arbuscular mycorrhizal incompatibility in <i>Arabidopsis thaliana</i> . <i>Plant Molecular Biology</i> , 2021, 106, 319-334. | 3.9 | 22 |
| 3 | Tuned vibration modes in a miniature hearing organ: Insights from the bushcricket. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 7.1 | 12 |
| 4 | Early Binaural Hearing: The Comparison of Temporal Differences at the Two Ears. <i>Annual Review of Neuroscience</i> , 2019, 42, 433-457. | 10.7 | 29 |
| 5 | Molecular dialogue between arbuscular mycorrhizal fungi and the nonhost plant <i>Arabidopsis thaliana</i> switches from initial detection to antagonism. <i>New Phytologist</i> , 2019, 223, 867-881. | 7.3 | 49 |
| 6 | Agricultural intensification reduces microbial network complexity and the abundance of keystone taxa in roots. <i>ISME Journal</i> , 2019, 13, 1722-1736. | 9.8 | 716 |
| 7 | The frequency limit of outer hair cell motility measured in vivo. <i>ELife</i> , 2019, 8, . | 6.0 | 60 |
| 8 | Plant-Soil Feedback: Bridging Natural and Agricultural Sciences. <i>Trends in Ecology and Evolution</i> , 2018, 33, 129-142. | 8.7 | 249 |
| 9 | Spatial profiles of sound-evoked vibration in the gerbil cochlea. <i>AIP Conference Proceedings</i> , 2018, , . | 0.4 | 7 |
| 10 | Wave propagation in the mammalian cochlea. <i>AIP Conference Proceedings</i> , 2018, , . | 0.4 | 4 |
| 11 | A synaptic theory of internal delays. <i>Journal of the Acoustical Society of America</i> , 2018, 144, 2967-2970. | 1.1 | 2 |
| 12 | Impact of organic and conventional farming systems on wheat grain uptake and soil bioavailability of zinc and cadmium. <i>Science of the Total Environment</i> , 2018, 639, 608-616. | 8.0 | 24 |
| 13 | Keystone taxa as drivers of microbiome structure and functioning. <i>Nature Reviews Microbiology</i> , 2018, 16, 567-576. | 28.6 | 1,516 |
| 14 | Vibration hotspots reveal longitudinal funneling of sound-evoked motion in the mammalian cochlea. <i>Nature Communications</i> , 2018, 9, 3054. | 12.8 | 111 |
| 15 | Non-Mycorrhizal Plants: The Exceptions that Prove the Rule. <i>Trends in Plant Science</i> , 2018, 23, 577-587. | 8.8 | 131 |
| 16 | Microbiome-on-a-Chip: New Frontiers in Plant Microbiota Research. <i>Trends in Microbiology</i> , 2017, 25, 610-613. | 7.7 | 42 |
| 17 | A Test of the Stereausis Hypothesis for Sound Localization in Mammals. <i>Journal of Neuroscience</i> , 2017, 37, 7278-7289. | 3.6 | 12 |
| 18 | Strategies for Environmentally Sound Soil Ecological Engineering: A Reply to Machado et al.. <i>Trends in Ecology and Evolution</i> , 2017, 32, 10-12. | 8.7 | 6 |

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|----|---|-----|-----------|
| 19 | Predicting binaural responses from monaural responses in the gerbil medial superior olive. <i>Journal of Neurophysiology</i> , 2016, 115, 2950-2963. | 1.8 | 19 |
| 20 | An Underground Revolution: Biodiversity and Soil Ecological Engineering for Agricultural Sustainability. <i>Trends in Ecology and Evolution</i> , 2016, 31, 440-452. | 8.7 | 879 |
| 21 | Dynamics of Cochlear Nonlinearity. <i>Advances in Experimental Medicine and Biology</i> , 2016, 894, 267-273. | 1.6 | 6 |
| 22 | Slow dynamics of the amphibian tympanic membrane. <i>AIP Conference Proceedings</i> , 2015, , . | 0.4 | 2 |
| 23 | Questioning cochlear amplification. <i>AIP Conference Proceedings</i> , 2015, , . | 0.4 | 2 |
| 24 | Mycorrhizal ecology and evolution: the past, the present, and the future. <i>New Phytologist</i> , 2015, 205, 1406-1423. | 7.3 | 1,390 |
| 25 | PERN: an EUâ€“Russia initiative for rhizosphere microbial resources. <i>Trends in Biotechnology</i> , 2015, 33, 377-380. | 9.3 | 9 |
| 26 | The role of arbuscular mycorrhizas in reducing soil nutrient loss. <i>Trends in Plant Science</i> , 2015, 20, 283-290. | 8.8 | 242 |
| 27 | Energy Flux in the Cochlea: Evidence Against Power Amplification of the Traveling Wave. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2015, 16, 581-597. | 1.8 | 28 |
| 28 | The Interaural Time Difference Pathway: a Comparison of Spectral Bandwidth and Correlation Sensitivity at Three Anatomical Levels. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2014, 15, 203-218. | 1.8 | 7 |
| 29 | Frequency selectivity without resonance in a fluid waveguide. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 14548-14552. | 7.1 | 31 |
| 30 | The Spatial Buildup of Compression and Suppression in the Mammalian Cochlea. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2013, 14, 523-545. | 1.8 | 24 |
| 31 | Arbuscular mycorrhizal fungi reduce growth and infect roots of the nonâ€“host plant <i>A. ramosissima</i> . <i>Plant, Cell and Environment</i> , 2013, 36, 1926-1937. | 5.7 | 97 |
| 32 | Directional Hearing by Linear Summation of Binaural Inputs at the Medial Superior Olive. <i>Neuron</i> , 2013, 78, 936-948. | 8.1 | 90 |
| 33 | Basilar Membrane Responses to Tones and Tone Complexes: Nonlinear Effects of Stimulus Intensity. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2012, 13, 785-798. | 1.8 | 46 |
| 34 | Subcortical input heterogeneity in the mouse inferior colliculus. <i>Journal of Physiology</i> , 2011, 589, 3955-3967. | 2.9 | 20 |
| 35 | Distortion Product Otoacoustic Emissions Evoked by Tone Complexes. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2011, 12, 29-44. | 1.8 | 8 |
| 36 | Response Characteristics in the Apex of the Gerbil Cochlea Studied Through Auditory Nerve Recordings. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2011, 12, 301-316. | 1.8 | 46 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Factors Controlling the Input-Output Relationship of Spherical Bushy Cells in the Gerbil Cochlear Nucleus. Journal of Neuroscience, 2011, 31, 4260-4273. | 3.6 | 78 |
| 39 | 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 |
| 40 | Dynamic Aspects of Cochlear Microphonic Potentials. , 2011, , . | | 2 |
| 41 | Otoacoustic Estimates of Cochlear Tuning: Testing Predictions in Macaque. AIP Conference Proceedings, 2011, 1403, 286-292. | 0.4 | 5 |
| 42 | The Cascaded Cochlea. , 2011, , . | | 0 |
| 43 | Interaural Correlation Fails to Account for Detection in a Classic Binaural Task: Dynamic ITDs Dominate NOSI€ Detection. JARO - Journal of the Association for Research in Otolaryngology, 2010, 11, 113-131. | 1.8 | 22 |
| 44 | 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 |
| 45 | Reply to Ren and Porsov: Reverse Propagation of Sounds in the Intact Cochlea. Journal of Neurophysiology, 2010, 104, 3733-3733. | 1.8 | 2 |
| 46 | Dynamic ITDs, Not ILDs, Underlie Binaural Detection of a Tone in Wideband Noise. , 2010, , 265-272. | | 0 |
| 47 | Socialism in soil? The importance of mycorrhizal fungal networks for facilitation in natural ecosystems. Journal of Ecology, 2009, 97, 1139-1150. | 4.0 | 486 |
| 48 | DISTORTION PRODUCT OTOACOUSTIC EMISSIONS EVOKED BY TONE COMPLEXES. , 2009, , . | | 1 |
| 49 | How Secure Is In Vivo Synaptic Transmission at the Calyx of Held?. Journal of Neuroscience, 2008, 28, 10206-10219. | 3.6 | 70 |
| 50 | 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 |
| 51 | Temporal Damping in Response to Broadband Noise. II. Auditory Nerve. Journal of Neurophysiology, 2008, 99, 1942-1952. | 1.8 | 10 |
| 52 | 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 |
| 53 | Correlation Index: A new metric to quantify temporal coding. Hearing Research, 2006, 216-217, 19-30. | 2.0 | 91 |
| 54 | Binaural and cochlear disparities. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 12917-12922. | 7.1 | 101 |

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|----|---|-----|-----------|
| 55 | Auditory Midbrain and Nerve Responses to Sinusoidal Variations in Interaural Correlation. Journal of Neuroscience, 2006, 26, 279-289. | 3.6 | 50 |
| 56 | Panoramic Measurements of the Apex of the Cochlea. Journal of Neuroscience, 2006, 26, 11462-11473. | 3.6 | 59 |
| 57 | 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 |
| 58 | Dependence of binaural and cochlear "best delays" on characteristic frequency. , 2005, , 477-483. | | 10 |
| 59 | Cochlear gain control. Journal of the Acoustical Society of America, 2005, 117, 1223-1233. | 1.1 | 21 |
| 60 | The Speed of Auditory Low-Side Suppression. Journal of Neurophysiology, 2005, 93, 201-209. | 1.8 | 11 |
| 61 | Enhanced Temporal Response Properties of Anteroventral Cochlear Nucleus Neurons to Broadband Noise. Journal of Neuroscience, 2005, 25, 1560-1570. | 3.6 | 56 |
| 62 | Temporal Damping in Response to Broadband Noise. I. Inferior Colliculus. Journal of Neurophysiology, 2005, 93, 1857-1870. | 1.8 | 23 |
| 63 | Temporal Properties of Responses to Broadband Noise in the Auditory Nerve. Journal of Neurophysiology, 2004, 91, 2051-2065. | 1.8 | 110 |
| 64 | Cochlear Phase and Amplitude Retrieved from the Auditory Nerve at Arbitrary Frequencies. Journal of Neuroscience, 2003, 23, 9194-9198. | 3.6 | 66 |
| 65 | Masking with interaurally delayed stimuli: The use of "internal" delays in binaural detection. Journal of the Acoustical Society of America, 1999, 105, 388-399. | 1.1 | 52 |
| 66 | 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 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | The role of envelope fluctuations in spectral masking. Journal of the Acoustical Society of America, 1995, 97, 1800-1807. | 1.1 | 24 |
| 71 | Using an excitation-pattern model to predict auditory masking. Hearing Research, 1994, 80, 38-52. | 2.0 | 14 |