

John J Guinan

List of Publications by Year in descending order

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102
papers

8,291
citations

50276

46
h-index

46799

89
g-index

107
all docs

107
docs citations

107
times ranked

2276
citing authors

#	ARTICLE	IF	CITATIONS
1	Evoked otoacoustic emissions arise by two fundamentally different mechanisms: A taxonomy for mammalian OAEs. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 782-798.	1.1	622
2	Efferent innervation of the organ of corti: two separate systems. <i>Brain Research</i> , 1979, 173, 152-155.	2.2	596
3	Olivocochlear Efferents: Anatomy, Physiology, Function, and the Measurement of Efferent Effects in Humans. <i>Ear and Hearing</i> , 2006, 27, 589-607.	2.1	515
4	Single Auditory Units in the Superior Olivary Complex: II: Locations of Unit Categories and Tonotopic Organization. <i>International Journal of Neuroscience</i> , 1972, 4, 147-166.	1.6	452
5	Revised estimates of human cochlear tuning from otoacoustic and behavioral measurements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 3318-3323.	7.1	420
6	Single Auditory Units in the Superior Olivary Complex: I: Responses to Sounds and Classifications Based on Physiological Properties. <i>International Journal of Neuroscience</i> , 1972, 4, 101-120.	1.6	273
7	Differential olivocochlear projections from lateral versus medial zones of the superior olivary complex. <i>Journal of Comparative Neurology</i> , 1983, 221, 358-370.	1.6	273
8	Physiology of Olivocochlear Efferents. <i>Springer Handbook of Auditory Research</i> , 1996, , 435-502.	0.7	209
9	Vestibular Evoked Myogenic Potentials Show Altered Tuning in Patients with Ménière's Disease. <i>Otology and Neurotology</i> , 2004, 25, 333-338.	1.3	201
10	Medial Olivocochlear Efferent Reflex in Humans: Otoacoustic Emission (OAE) Measurement Issues and the Advantages of Stimulus Frequency OAEs. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2003, 4, 521-540.	1.8	193
11	Otoacoustic Estimation of Cochlear Tuning: Validation in the Chinchilla. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2010, 11, 343-365.	1.8	182
12	Stimulus-frequency-emission group delay: A test of coherent reflection filtering and a window on cochlear tuning. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 2762-2772.	1.1	181
13	Time-course of the human medial olivocochlear reflex. <i>Journal of the Acoustical Society of America</i> , 2006, 119, 2889-2904.	1.1	177
14	Topographic organization of the olivocochlear projections from the lateral and medial zones of the superior olivary complex. <i>Journal of Comparative Neurology</i> , 1984, 226, 21-27.	1.6	155
15	Effects of electrical stimulation of medial olivocochlear neurons on ipsilateral and contralateral cochlear responses. <i>Hearing Research</i> , 1987, 29, 179-194.	2.0	150
16	Signal processing in brainstem auditory neurons which receive giant endings (calyces of Held) in the medial nucleus of the trapezoid body of the cat. <i>Hearing Research</i> , 1990, 49, 321-334.	2.0	150
17	Number and distribution of stapedius motoneurons in cats. <i>Journal of Comparative Neurology</i> , 1985, 232, 43-54.	1.6	147
18	Feedback control of the auditory periphery. <i>Journal of Communication Disorders</i> , 1998, 31, 471-483.	1.5	142

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19	Vestibular Evoked Myogenic Potentials (VEMP) Can Detect Asymptomatic Saccular Hydrops. <i>Laryngoscope</i> , 2006, 116, 987-992.	2.0	140
20	Effects of electrical stimulation of efferent olivocochlear neurons on cat auditory-nerve fibers. III. Tuning curves and thresholds at CF. <i>Hearing Research</i> , 1988, 37, 29-45.	2.0	135
21	Effects of electrical stimulation of efferent olivocochlear neurons on cat auditory-nerve fibers. I. Rate-level functions. <i>Hearing Research</i> , 1988, 33, 97-113.	2.0	130
22	Olivocochlear efferents: Their action, effects, measurement and uses, and the impact of the new conception of cochlear mechanical responses. <i>Hearing Research</i> , 2018, 362, 38-47.	2.0	127
23	Cochlear efferent innervation and function. <i>Current Opinion in Otolaryngology and Head and Neck Surgery</i> , 2010, 18, 447-453.	1.8	124
24	Generators of the brainstem auditory evoked potential in cat. II. Correlating lesion sites with waveform changes. <i>Hearing Research</i> , 1996, 93, 28-51.	2.0	106
25	Human Medial Olivocochlear Reflex: Effects as Functions of Contralateral, Ipsilateral, and Bilateral Elicitor Bandwidths. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2009, 10, 459-470.	1.8	106
26	Asymmetries in the acoustic reflexes of the cat stapedius muscle. <i>Hearing Research</i> , 1987, 26, 1-10.	2.0	105
27	The recruitment order of stapedius motoneurons in the acoustic reflex varies with sound laterality. <i>Brain Research</i> , 1987, 425, 372-375.	2.2	103
28	Single unit clues to cochlear mechanisms. <i>Hearing Research</i> , 1986, 22, 171-182.	2.0	100
29	Medial efferent inhibition produces the largest equivalent attenuations at moderate to high sound levels in cat auditory-nerve fibers. <i>Journal of the Acoustical Society of America</i> , 1996, 100, 1680-1690.	1.1	98
30	Effects of crossed olivocochlear bundle stimulation on cat auditory nerve fiber responses to tones. <i>Journal of the Acoustical Society of America</i> , 1983, 74, 115-123.	1.1	96
31	How are inner hair cells stimulated? Evidence for multiple mechanical drives. <i>Hearing Research</i> , 2012, 292, 35-50.	2.0	81
32	Measurement of the Distribution of Medial Olivocochlear Acoustic Reflex Strengths Across Normal-Hearing Individuals via Otoacoustic Emissions. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2007, 8, 484-496.	1.8	80
33	Effects of electrical stimulation of efferent olivocochlear neurons on cat auditory-nerve fibers. II. Spontaneous rate. <i>Hearing Research</i> , 1988, 33, 115-127.	2.0	78
34	Reflex Control of the Human Inner Ear: A Half-Octave Offset in Medial Efferent Feedback That Is Consistent With an Efferent Role in the Control of Masking. <i>Journal of Neurophysiology</i> , 2009, 101, 1394-1406.	1.8	73
35	Acoustic stimulation of human medial olivocochlear efferents reduces stimulus-frequency and click-evoked otoacoustic emission delays: Implications for cochlear filter bandwidths. <i>Hearing Research</i> , 2010, 267, 36-45.	2.0	73
36	Vestibular Evoked Myogenic Potential (VEMP) in Patients With Ménière's Disease With Drop Attacks. <i>Laryngoscope</i> , 2006, 116, 776-779.	2.0	72

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37	Generators of the brainstem auditory evoked potential in cat. I. An experimental approach to their identification. <i>Hearing Research</i> , 1996, 93, 1-27.	2.0	68
38	Medial olivocochlear reflex interneurons are located in the posteroventral cochlear nucleus: A kainic acid lesion study in guinea pigs. <i>Journal of Comparative Neurology</i> , 2005, 487, 345-360.	1.6	61
39	A New Auditory Threshold Estimation Technique for Low Frequencies. <i>Ear and Hearing</i> , 2013, 34, 42-51.	2.1	61
40	Auditory-nerve-fiber responses to high-level clicks: Interference patterns indicate that excitation is due to the combination of multiple drives. <i>Journal of the Acoustical Society of America</i> , 2000, 107, 2615-2630.	1.1	58
41	Short-Term Sound Temporal Envelope Characteristics Determine Multisecond Time Patterns of Activity in Human Auditory Cortex as Shown by fMRI. <i>Journal of Neurophysiology</i> , 2005, 93, 210-222.	1.8	57
42	Vestibular Evoked Myogenic Potentials versus Vestibular Test Battery in Patients with Ménière's Disease. <i>Otology and Neurotology</i> , 2004, 25, 981-986.	1.3	55
43	Otoacoustic-emission-based medial-olivocochlear reflex assays for humans. <i>Journal of the Acoustical Society of America</i> , 2014, 136, 2697-2713.	1.1	55
44	Frequency tuning of medial-olivocochlear-efferent acoustic reflexes in humans as functions of probe frequency. <i>Journal of Neurophysiology</i> , 2012, 107, 1598-1611.	1.8	54
45	Medial-olivocochlear-efferent inhibition of the first peak of auditory-nerve responses: Evidence for a new motion within the cochlea. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 2421-2433.	1.1	49
46	Cochlear traveling-wave amplification, suppression, and beamforming probed using noninvasive calibration of intracochlear distortion sources. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 1003-1016.	1.1	48
47	Medial efferent effects on auditory-nerve responses to tail-frequency tones. I. Rate reduction. <i>Journal of the Acoustical Society of America</i> , 1999, 106, 857-869.	1.1	46
48	Medial olivocochlear efferent inhibition of basilar-membrane responses to clicks: Evidence for two modes of cochlear mechanical excitation. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 1080-1092.	1.1	44
49	Physiology of the Medial and Lateral Olivocochlear Systems. <i>Springer Handbook of Auditory Research</i> , 2011, , 39-81.	0.7	41
50	Efferent inhibition strength is a physiological correlate of hyperacusis in children with autism spectrum disorder. <i>Journal of Neurophysiology</i> , 2017, 118, 1164-1172.	1.8	41
51	Effects of stapedius-muscle contractions on the masking of auditory-nerve responses. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3576-3586.	1.1	39
52	Changes in Stimulus Frequency Otoacoustic Emissions Produced by Two-Tone Suppression and Efferent Stimulation in Cats. <i>Lecture Notes in Biomathematics</i> , 1990, , 170-177.	0.3	37
53	Allen's Fahey and related experiments support the predominance of cochlear slow-wave otoacoustic emissions. <i>Journal of the Acoustical Society of America</i> , 2007, 121, 1564-1575.	1.1	35
54	Progress in cochlear physiology after Békésy. <i>Hearing Research</i> , 2012, 293, 12-20.	2.0	34

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55	Growth rate of simultaneous masking in cat auditory-nerve fibers: Relationship to the growth of basilar-membrane motion and the origin of two-tone suppression. <i>Journal of the Acoustical Society of America</i> , 1997, 102, 3564-3575.	1.1	30
56	Time-frequency analysis of auditory-nerve-fiber and basilar-membrane click responses reveal glide irregularities and non-characteristic-frequency skirts. <i>Journal of the Acoustical Society of America</i> , 2004, 116, 405-416.	1.1	30
57	Mechanisms of Mammalian Otoacoustic Emission. <i>Springer Handbook of Auditory Research</i> , 2008, , 305-342.	0.7	29
58	Normalization Reduces Intersubject Variability in Cervical Vestibular Evoked Myogenic Potentials. <i>Otology and Neurotology</i> , 2014, 35, e222-e227.	1.3	26
59	Cochlear partition anatomy and motion in humans differ from the classic view of mammals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 13977-13982.	7.1	24
60	Vestibular Evoked Myogenic Potentials in Patients With Superior Semicircular Canal Dehiscence. <i>Otology and Neurotology</i> , 2013, 34, 360-367.	1.3	22
61	Olivocochlear efferent function: issues regarding methods and the interpretation of results. <i>Frontiers in Systems Neuroscience</i> , 2014, 8, 142.	2.5	22
62	Brainstem facial-motor pathways from two distinct groups of stapedius motoneurons in the cat. <i>Journal of Comparative Neurology</i> , 1989, 287, 134-144.	1.6	20
63	Central auditory pathways mediating the rat middle ear muscle reflexes. <i>The Anatomical Record Part A: Discoveries in Molecular, Cellular, and Evolutionary Biology</i> , 2006, 288A, 358-369.	2.0	20
64	Intracellularly labeled stapedius-motoneuron cell bodies in the cat are spatially organized according to their physiologic responses. <i>Journal of Comparative Neurology</i> , 1989, 289, 401-415.	1.6	19
65	Medial efferent effects on auditory-nerve responses to tail-frequency tones II: Alteration of phase. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 664-678.	1.1	18
66	Auditory Attention Reduced Ear-Canal Noise in Humans by Reducing Subject Motion, Not by Medial Olivocochlear Efferent Inhibition: Implications for Measuring Otoacoustic Emissions During a Behavioral Task. <i>Frontiers in Systems Neuroscience</i> , 2018, 12, 42.	2.5	18
67	Audiometric and cVEMP Thresholds Show Little Correlation With Symptoms in Superior Semicircular Canal Dehiscence Syndrome. <i>Otology and Neurotology</i> , 2018, 39, 1153-1162.	1.3	18
68	The Spatial Origins of Cochlear Amplification Assessed by Stimulus-Frequency Otoacoustic Emissions. <i>Biophysical Journal</i> , 2020, 118, 1183-1195.	0.5	16
69	Toward Optimizing Cervical Vestibular Evoked Myogenic Potentials (cVEMP): Combining Air-Bone Gap and cVEMP Thresholds to Improve Diagnosis of Superior Canal Dehiscence. <i>Otology and Neurotology</i> , 2018, 39, 212-220.	1.3	15
70	Toward Optimizing cVEMP: 2,000-Hz Tone Bursts Improve the Detection of Superior Canal Dehiscence. <i>Audiology and Neuro-Otology</i> , 2018, 23, 335-344.	1.3	15
71	The interplay of organ-of-Corti vibrational modes, not tectorial-membrane resonance, sets outer-hair-cell stereocilia phase to produce cochlear amplification. <i>Hearing Research</i> , 2020, 395, 108040.	2.0	15
72	Non-tip auditory-nerve responses that are suppressed by low-frequency bias tones originate from reticular lamina motion. <i>Hearing Research</i> , 2018, 358, 1-9.	2.0	14

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73	Cervical Vestibular Evoked Myogenic Potentials in Meni�re's Disease: A Comparison of Response Metrics. <i>Otology and Neurotology</i> , 2019, 40, e215-e224.	1.3	14
74	Stimulus Frequency Otoacoustic Emission Delays and Generating Mechanisms in Guinea Pigs, Chinchillas, and Simulations. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2015, 16, 679-694.	1.8	13
75	Serial cVEMP Testing is Sensitive to Disease Progression in M�ni�re Patients. <i>Otology and Neurotology</i> , 2016, 37, 1614-1619.	1.3	12
76	Toward Optimizing Vestibular Evoked Myogenic Potentials: Normalization Reduces the Need for Strong Neck Muscle Contraction. <i>Audiology and Neuro-Otology</i> , 2017, 22, 282-291.	1.3	12
77	Electrically Evoked Medial Olivocochlear Efferent Effects on Stimulus Frequency Otoacoustic Emissions in Guinea Pigs. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2017, 18, 153-163.	1.8	10
78	Normalizing cVEMPs: Which Method Is the Most Effective?. <i>Ear and Hearing</i> , 2019, 40, 878-886.	2.1	10
79	FREQUENCY DEPENDENCE OF STIMULUS-FREQUENCY-EMISSION PHASE: IMPLICATIONS FOR COCHLEAR MECHANICS. , 2000, , .		10
80	Cochlear Mechanics, Otoacoustic Emissions, and Medial Olivocochlear Efferents: Twenty Years of Advances and Controversies Along with Areas Ripe for New Work. <i>Springer Handbook of Auditory Research</i> , 2014, , 229-246.	0.7	9
81	Evaluating Inhibition of Motoneuron Firing From Electromyogram Data to Assess Vestibular Output Using Vestibular Evoked Myogenic Potentials. <i>Ear and Hearing</i> , 2015, 36, 591-604.	2.1	8
82	Low-frequency bias tone suppression of auditory-nerve responses to low-level clicks and tones. <i>Hearing Research</i> , 2016, 341, 66-78.	2.0	8
83	Motoneuron axon distribution in the cat stapedius muscle. <i>Hearing Research</i> , 1999, 133, 139-148.	2.0	7
84	New Insights into Cochlear Amplification. <i>Biophysical Journal</i> , 2013, 105, 839-840.	0.5	6
85	Increasing the Stimulation Rate Reduces cVEMP Testing Time by More Than Half With No Significant Difference in Threshold. <i>Otology and Neurotology</i> , 2016, 37, 933-936.	1.3	6
86	Toward Optimizing VEMP: Calculating VEMP Inhibition Depth With a Generic Template. <i>Ear and Hearing</i> , 2018, 39, 1199-1206.	2.1	6
87	Hearing at speech frequencies is different from what we thought. <i>Journal of Physiology</i> , 2017, 595, 4123-4124.	2.9	4
88	Predicting Development of Bilateral Meni�re's Disease Based on cVEMP Threshold and Tuning. <i>Otology and Neurotology</i> , 2019, 40, 1346-1352.	1.3	4
89	Anatomy of the Human Osseous Spiral Lamina and Cochlear Partition Bridge: Relevance for Cochlear Partition Motion. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2020, 21, 171-182.	1.8	4
90	On Cochlear Impedances and the Miscomputation of Power Gain. <i>JARO - Journal of the Association for Research in Otolaryngology</i> , 2011, 12, 671-676.	1.8	3

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91	Efferent Insights into Cochlear Mechanics. , 2011, , .		3
92	Mechanical Excitation of IHC Stereocilia: An Attempt to Fit Together Diverse Evidence. , 2011, , .		2
93	The auditory nerve overlapped waveform (ANOW): A new objective measure of low-frequency hearing. AIP Conference Proceedings, 2015, , .	0.4	2
94	Auditory-nerve phenomena relevant to cochlear mechanics. AIP Conference Proceedings, 2018, , .	0.4	2
95	Drive mechanisms to the inner and outer hair cell stereocilia. AIP Conference Proceedings, 2018, , .	0.4	2
96	Optimized Diagnostic Approach to Patients Suspected of Superior Semicircular Canal Dehiscence. Ear and Hearing, 2021, Publish Ahead of Print, 1295-1305.	2.1	2
97	Time-frequency analysis of stimulus frequency otoacoustic emissions and their changes with efferent stimulation in guinea pigs. AIP Conference Proceedings, 2015, , .	0.4	1
98	Acoustic reflex partitioning in the stapedius. Behavioral and Brain Sciences, 1989, 12, 663-665.	0.7	0
99	Auditory-Nerve Responses to Clicks at Low Levels, and the Initial Peak at High Levels, are Suppressed at Opposite Bias-Tone Phases. , 2011, , .		0
100	Nonlinearity in the Cochleaâ€”Moderated Discussions. , 2011, , .		0
101	Multiple vibration modes within the organ of Corti revealed by high-resolution, outer-hair-cell-driven micromechanical motions at acoustic frequencies. AIP Conference Proceedings, 2018, , .	0.4	0
102	ORGAN OF CORTI VIBRATION IN MODES: SUPPORTING EVIDENCE FROM AUDITORY-NERVE-FIBER RESPONSES TO CLICKS AND CLICKS WITH EFFERENT STIMULATION. , 2000, , .		0