Robert V Shannon

List of Publications by Year
in descending order

93 papers	10,910 citations	36303 51 h-index	40979 93 g-index
97 all docs	97 docs citations	97 times ranked	3899 citing authors

#	Article	IF	Citations
1	Benefits of Cochlear Implantation for Single-Sided Deafness: Data From the House Clinic-University of Southern California-University of California, Los Angeles Clinical Trial. Ear and Hearing, 2019, 40, 766-781.	2.1	86
2	Initial Results of a Safety and Feasibility Study of Auditory Brainstem Implantation in Congenitally Deaf Children. Otology and Neurotology, 2017, 38, 212-220.	1.3	28
3	Is Birdsong More Like Speech or Music?. Trends in Cognitive Sciences, 2016, 20, 245-247.	7.8	12
4	Two Laskers and Counting: Learning From the Past Enables Future Innovations With Central Neural Prostheses. Brain Stimulation, 2015, 8, 439-441.	1.6	3
5	Regulatory and Funding Strategies to Develop a Safety Study of an Auditory Brainstem Implant in Young Children Who Are Deaf. Therapeutic Innovation and Regulatory Science, 2015, 49, 659-665.	1.6	3
6	Auditory Implant Research at the House Ear Institute 1989â€"2013. Hearing Research, 2015, 322, 57-66.	2.0	22
7	Training improves cochlear implant rate discrimination on a psychophysical task. Journal of the Acoustical Society of America, 2014, 135, 334-341.	1.1	30
8	The Development of Auditory Perception in Children after Auditory Brainstem Implantation. Audiology and Neuro-Otology, 2014, 19, 386-394.	1.3	55
9	Improving speech perception in noise with current focusing in cochlear implant users. Hearing Research, 2013, 299, 29-36.	2.0	97
10	The Future Present. ASHA Leader, 2013, 18, 36-47.	0.1	0
11	Advances in auditory prostheses. Current Opinion in Neurology, 2012, 25, 61-66.	3.6	64
12	Improving virtual channel discrimination in a multi-channel context. Hearing Research, 2012, 286, 19-29.	2.0	26
13	Histopathological analysis of a 15â€year user of an auditory brainstem implant. Laryngoscope, 2012, 122, 645-648.	2.0	8
14	Prosthetic Hearing: Implications for Pattern Recognition in Speech. , 2012, , 289-301.		0
15	Infants versus older children fitted with cochlear implants: Performance over 10 years. International Journal of Pediatric Otorhinolaryngology, 2011, 75, 504-509.	1.0	112
16	Estimated net saving to society from cochlear implantation in infants: A preliminary analysis. Laryngoscope, 2011, 121, 2455-2460.	2.0	23
17	Effect of Stimulation Rate on Cochlear Implant Usersâ€™ Phoneme, Word and Sentence Recognition in Quiet and in Noise. Audiology and Neuro-Otology, 2011, 16, 113-123.	1.3	72
18	Auditory Brainstem Implants. ASHA Leader, 2011, 16, 17-19.	0.1	2

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19	Complications in Auditory Brainstem Implant Surgery in Adults and Children. Otology and Neurotology, 2010, 31, 558-564.	1.3	65
20	Auditory prostheses for the brainstem and midbrain. , 2010, , .		1
21	Current focusing sharpens local peaks of excitation in cochlear implant stimulation. Hearing Research, 2010, 270, 89-100.	2.0	63
22	Beyond cochlear implants: awakening the deafened brain. Nature Neuroscience, 2009, 12, 686-691.	14.8	208
23	Melodic Contour Identification and Music Perception by Cochlear Implant Users. Annals of the New York Academy of Sciences, 2009, 1169, 518-533.	3.8	83
24	Progress in restoration of hearing with the auditory brainstem implant. Progress in Brain Research, 2009, 175, 333-345.	1.4	45
25	Auditory Brainstem Implants. Neurotherapeutics, 2008, 5, 128-136.	4.4	121
26	Cochlear and Brainstem Auditory Prostheses â€œNeural Interface for Hearing Restoration: Cochlear and Brain Stem Implantsâ€• Proceedings of the IEEE, 2008, 96, 1085-1095.	21.3	26
27	Audiologic Outcomes With the Penetrating Electrode Auditory Brainstem Implant. Otology and Neurotology, 2008, 29, 1147-1154.	1.3	80
28	14-3-3. , 2008, , 1-1.		2
29	Understanding hearing through deafness. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 6883-6884.	7.1	13
30	Combined Effects of Frequency Compression-Expansion and Shift on Speech Recognition. Ear and Hearing, 2007, 28, 277-289.	2.1	39
31	Effects of electrode design and configuration on channel interactions. Hearing Research, 2006, 211, 33-45.	2.0	78
32	Effects of Stimulation Mode, Level and Location on Forward-Masked Excitation Patterns in Cochlear Implant Patients. JARO - Journal of the Association for Research in Otolaryngology, 2006, 7, 15-25.	1.8	51
33	Frequency transposition around dead regions simulated with a noiseband vocoder. Journal of the Acoustical Society of America, 2006, 119, 1156.	1.1	33
34	Interactions between cochlear implant electrode insertion depth and frequency-place mapping. Journal of the Acoustical Society of America, 2005, 117, 1405-1416.	1.1	107
35	Open Set Speech Perception with Auditory Brainstem Implant?. Laryngoscope, 2005, 115, 1974-1978.	2.0	163
36	Speech and Music Have Different Requirements for Spectral Resolution. International Review of Neurobiology, 2005, 70, 121-134.	2.0	30

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37	Effects of Stimulation Rate on Speech Recognition with Cochlear Implants. Audiology and Neuro-Otology, 2005, 10, 169-184.	1.3	67
38	The multichannel auditory brainstem implant: how many electrodes make sense?. Journal of Neurosurgery, 2004, 100, 16-23.	1.6	37
39	Frequency-place compression and expansion in cochlear implant listeners. Journal of the Acoustical Society of America, 2004, 116, 3130-3140.	1.1	61
40	Speech Perception with Cochlear Implants. Springer Handbook of Auditory Research, 2004, , 334-376.	0.7	32
41	The number of spectral channels required for speech recognition depends on the difficulty of the listening situation. Acta Oto-Laryngologica, 2004, 124, 50-54.	0.9	218
42	Brainstem auditory implants. Operative Techniques in Otolaryngology - Head and Neck Surgery, 2003, 14, 282-287.	0.4	1
43	Speech recognition under conditions of frequency-place compression and expansion. Journal of the Acoustical Society of America, 2003, 113, 2064-2076.	1.1	92
44	Use of a Multichannel Auditory Brainstem Implant for Neurofibromatosis Type 2. Stereotactic and Functional Neurosurgery, 2003, 81, 110-114.	1.5	50
45	Perceptual learning following changes in the frequency-to-electrode assignment with the Nucleus-22 cochlear implant. Journal of the Acoustical Society of America, 2002, 112, 1664-1674.	1.1	137
46	Multichannel auditory brainstem implant: update on performance in 61 patients. Journal of Neurosurgery, 2002, 96, 1063-1071.	1.6	214
47	The Relative Importance of Amplitude, Temporal, and Spectral Cues for Cochlear Implant Processor Design. American Journal of Audiology, 2002, 11, 124-127.	1.2	42
48	Frequency Mapping in Cochlear Implants. Ear and Hearing, 2002, 23, 339-348.	2.1	35
49	Holes in Hearing. JARO - Journal of the Association for Research in Otolaryngology, 2002, 3, 185-199.	1.8	76
50	Brainstem electronic implants for bilateral anacusis following surgical removal of cerebello pontine angle lesions. Otolaryngologic Clinics of North America, 2001, 34, 485-499.	1.1	9
51	Speech recognition in noise as a function of the number of spectral channels: Comparison of acoustic hearing and cochlear implants. Journal of the Acoustical Society of America, 2001, 110, 1150-1163.	1.1	888
52	Effects of Dynamic Range and Amplitude Mapping on Phoneme Recognition in Nucleus-22 Cochlear Implant Users. Ear and Hearing, 2000, 21, 227-235.	2.1	34
53	Effects of phase duration and electrode separation on loudness growth in cochlear implant listeners. Journal of the Acoustical Society of America, 2000, 107, 1637-1644.	1.1	50
54	Speech recognition with reduced spectral cues as a function of age. Journal of the Acoustical Society of America, 2000, 107, 2704-2710.	1.1	246

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55	Effect of stimulation rate on phoneme recognition by Nucleus-22 cochlear implant listeners. Journal of the Acoustical Society of America, 2000, 107, 589-597.	1.1	107
56	Consonant recordings for speech testing. Journal of the Acoustical Society of America, 1999, 106, L71-L74.	1.1	139
57	Effect of acoustic dynamic range on phoneme recognition in quiet and noise by cochlear implant users. Journal of the Acoustical Society of America, 1999, 106, L65-L70.	1.1	26
58	Phoneme recognition by cochlear implant users as a function of signal-to-noise ratio and nonlinear amplitude mapping. Journal of the Acoustical Society of America, 1999, 106, L18-L23.	1.1	24
59	Recognition of spectrally degraded and frequency-shifted vowels in acoustic and electric hearing. Journal of the Acoustical Society of America, 1999, 105, 1889-1900.	1.1	160
60	Effects of Electrode Location and Spacing on Phoneme Recognition with the Nucleus-22 Cochlear Implant. Ear and Hearing, 1999, 20, 321-331.	2.1	50
61	Effects of Electrode Configuration and Frequency Allocation on Vowel Recognition with the Nucleus-22 Cochlear Implant. Ear and Hearing, 1999, 20, 332-344.	2.1	76
62	Psychophysical laws revealed by electric hearing. NeuroReport, 1999, 10, 1931-1935.	1.2	32
63	Design for an Inexpensive but Effective Cochlear Implant. Otolaryngology - Head and Neck Surgery, 1998, 118, 235-241.	1.9	12
64	Speech recognition with altered spectral distribution of envelope cues. Journal of the Acoustical Society of America, 1998, 104, 2467-2476.	1.1	181
65	Gap detection as a measure of electrode interaction in cochlear implants. Journal of the Acoustical Society of America, 1998, 104, 2372-2384.	1.1	59
66	Within-channel gap detection using dissimilar markers in cochlear implant listeners. Journal of the Acoustical Society of America, 1998, 103, 2515-2519.	1.1	31
67	Importance of tonal envelope cues in Chinese speech recognition. Journal of the Acoustical Society of America, 1998, 104, 505-510.	1.1	233
68	Effects of amplitude nonlinearity on phoneme recognition by cochlear implant users and normal-hearing listeners. Journal of the Acoustical Society of America, 1998, 104, 2570-2577.	1.1	80
69	Forward masked excitation patterns in multielectrode electrical stimulation. Journal of the Acoustical Society of America, 1998, 103, 2565-2572.	1.1	153
70	Effects of noise and spectral resolution on vowel and consonant recognition: Acoustic and electric hearing. Journal of the Acoustical Society of America, 1998, 104, 3586-3596.	1.1	306
71	Speech Recognition as a Function of the Number of Electrodes Used in the SPEAK Cochlear Implant Speech Processor. Journal of Speech, Language, and Hearing Research, 1997, 40, 1201-1215.	1.6	338
72	Multi-unit mapping of acoustic stimuli in gerbil inferior colliculus. Hearing Research, 1997, 108, 145-156.	2.0	16

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73	Place pitch discrimination and speech recognition in cochlear implants users. South African journal of communication disorders Die Suid-Afrikaanse tydskrif vir Kommunikasieafwykings, The, 1996, 43, 27.	0.6	6
74	Speech recognition with altered spectral distribution of envelope cues. Journal of the Acoustical Society of America, 1996, 100, 2692-2692.	1.1	98
75	Electrode interactions measured by loudness summation in cochlear implant listeners. Journal of the Acoustical Society of America, 1996, 100, 2631-2631.	1.1	2
76	Speech Recognition with Primarily Temporal Cues. Science, 1995, 270, 303-304.	12.6	2,687
77	Possible origins of the non-monotonic intensity discrimination function in forward masking. Hearing Research, 1995, 82, 216-224.	2.0	23
78	Auditory Brainstem Implant: I. Issues in Surgical Implantation. Otolaryngology - Head and Neck Surgery, 1993, 108, 624-633.	1.9	193
79	Auditory Brainstem Implant: II. Postsurgical Issues and Performance. Otolaryngology - Head and Neck Surgery, 1993, 108, 634-642.	1.9	145
80	Chapter 24 Quantitative comparison of electrically and acoustically evoked auditory perception: implications for the location of perceptual mechanisms. Progress in Brain Research, 1993, 97, 261-269.	1.4	20
81	Temporal modulation transfer functions in patients with cochlear implants. Journal of the Acoustical Society of America, 1992, 91, 2156-2164.	1.1	197
82	Loudness balance between electric and acoustic stimulation. Hearing Research, 1992, 60, 231-235.	2.0	86
83	A computer interface for psychophysical and speech research with the Nucleus cochlear implant. Journal of the Acoustical Society of America, 1990, 87, 905-907.	1.1	80
84	Forward masking in patients with cochlear implants. Journal of the Acoustical Society of America, 1990, 88, 741-744.	1.1	75
85	Psychophysical measures from electrical stimulation of the human cochlear nucleus. Hearing Research, 1990, 47, 159-168.	2.0	72
86	Detection of gaps in sinusoids and pulse trains by patients with cochlear implants. Journal of the Acoustical Society of America, 1989, 85, 2587-2592.	1.1	90
87	Threshold functions for electrical stimulation of the human cochlear nucleus. Hearing Research, 1989, 40, 173-177.	2.0	23
88	A model of threshold for pulsatile electrical stimulation of cochlear implants. Hearing Research, 1989, 40, 197-204.	2.0	55
89	Psychophysical suppression of selective portions of pulsation threshold patterns. Hearing Research, 1986, 21, 257-260.	2.0	4
90	Threshold and loudness functions for pulsatile stimulation of cochlear implants. Hearing Research, 1985, 18, 135-143.	2.0	143

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91	Multichannel electrical stimulation of the auditory nerve in man. I. Basic psychophysics. Hearing Research, 1983, 11, 157-189.	2.0	376
92	Multichannel electrical stimulation of the auditory nerve in man. II. Channel interaction. Hearing Research, 1983, 12, 1-16.	2.0	196
93	Twoâ€tone unmasking and suppression in a forwardâ€masking situation. Journal of the Acoustical Society of America, 1976, 59, 1460-1470.	1.1	167