Paul D Teal

List of Publications by Year
in descending order

88 papers	1,237 citations	567281 15 h-index	477307 29 g-index
88 all docs	88 docs citations	88 times ranked	1448 citing authors

#	Article	IF	Citations
1	A practical comparison of manual and autonomous methods for acoustic monitoring. Methods in Ecology and Evolution, 2013, 4, 675-683.	5.2	167
2	Spatial correlation for general distributions of scatterers. IEEE Signal Processing Letters, 2002, 9, 305-308.	3.6	133
3	Reinforcement learning for context awareness and intelligence in wireless networks: Review, new features and open issues. Journal of Network and Computer Applications, 2012, 35, 253-267.	9.1	120
4	Optimizing the sensitivity of palladium based hydrogen sensors. Sensors and Actuators B: Chemical, 2018, 259, 10-19.	7.8	59
5	A context-aware and Intelligent Dynamic Channel Selection scheme for cognitive radio networks. , 2009, , .		41
6	Cognitive Radio-based Wireless Sensor Networks: Conceptual design and open issues. , 2009, , .		38
7	Extrapolation of MIMO Mobile-to-Mobile Wireless Channels Using Parametric-Model-Based Prediction. IEEE Transactions on Vehicular Technology, 2015, 64, 4487-4498.	6.3	37
8	Adaptive truncation of matrix decompositions and efficient estimation of NMR relaxation distributions. Inverse Problems, 2015, 31, 045010.	2.0	35
9	A constrained optimization approach for multi-zone surround sound. , 2011, , .		33
10	Comparison of methods for calculating the sound field due to a rotating monopole. Journal of the Acoustical Society of America, 2011, 129, 3513-3520.	1.1	33
11	Applications of Reinforcement Learning to Cognitive Radio Networks. , 2010, , .		28
12	Palladium-Based Hydrogen Sensors Using Fiber Bragg Gratings. Journal of Lightwave Technology, 2018, 36, 850-856.	4.6	25
13	Modelling Cochlear Mechanics. BioMed Research International, 2014, 2014, 1-42.	1.9	23
14	Temporal and environmental influences on the vocal behaviour of a nocturnal bird. Journal of Avian Biology, 2014, 45, 591-599.	1.2	23
15	Vocal cooperation between the sexes in <scp>L</scp>ittle <scp>S</scp>potted <scp>K</scp>iwi <scp>A</scp>pteryx owenii. Ibis, 2013, 155, 229-245.	1.9	22
16	Identification of human sympathetic neurovascular control using multivariate wavelet decomposition analysis. American Journal of Physiology - Heart and Circulatory Physiology, 2016, 311, H837-H848.	3.2	21
17	High-Sensitivity Fiber-Optic Sensor for Hydrogen Detection in Gas and Transformer Oil. IEEE Sensors Journal, 2019, 19, 3348-3357.	4.7	21
18	Improving the Sensitivity of Palladium-Based Fiber Optic Hydrogen Sensors. Journal of Lightwave Technology, 2018, 36, 2166-2174.	4.6	17

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19	Is the Cushing mechanism a dynamic blood pressure-stabilizing system? Insights from Granger causality analysis of spontaneous blood pressure and cerebral blood flow. American Journal of Physiology - Regulatory Integrative and Comparative Physiology, 2018, 315, R484-R495.	1.8	17
20	On Multi-Channel MAC Protocols in Cognitive Radio Networks. , 2008, , .		15
21	Spatially Robust Far-field Beamforming Using the von Mises(-Fisher) Distribution. IEEE/ACM Transactions on Audio Speech and Language Processing, 2015, 23, 2189-2197.	5.8	15
22	Parametric Channel Prediction for Narrowband Mobile MIMO Systems Using Spatio-Temporal Correlation Analysis. , 2013, , .		14
23	Context-awareness and intelligence in Distributed Cognitive Radio Networks: A Reinforcement Learning approach. , 2010, , .		13
24	Non-linear phenomena in little spotted kiwi calls. Bioacoustics, 2014, 23, 113-128.	1.7	13
25	Bounds on Extrapolation of Field Knowledge for Long-Range Prediction of Mobile Signals. IEEE Transactions on Wireless Communications, 2004, 3, 672-676.	9.2	11
26	Finite element modelling of cochlear electrical coupling. Journal of the Acoustical Society of America, 2016, 140, 2769-2779.	1.1	11
27	Effect of grease on bearing vibration performance caused by short-time high-temperature exposure. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2020, 42, 1.	1.6	11
28	Performance of pressure routing in drifting 3D underwater sensor networks for deep water monitoring. , 2012, , .		10
29	Interference Management in Cognitive Radio Systems With Feasibility Detection. IEEE Transactions on Vehicular Technology, 2013, 62, 3711-3720.	6.3	10
30	Parametric Channel Prediction for Narrowband MIMO Systems Using Polarized Antenna Arrays. , 2014, , .		10
31	Robust Cognitive Radio Cooperative Beamforming. IEEE Transactions on Wireless Communications, 2014, 13, 6370-6381.	9.2	10
32	Non-Linear Characterisation of Cerebral Pressure-Flow Dynamics in Humans. PLoS ONE, 2015, 10, e0139470.	2.5	10
33	Efficient crosstalk canceler design with impulse response shortening filters. , 2012, , .		9
34	Achieving Context Awareness and Intelligence in Distributed Cognitive Radio Networks: A Payoff Propagation Approach. , 2011, , .		8
35	An integrated electromechanical model for the cochlear microphonic. Biocybernetics and Biomedical Engineering, 2014, 34, 206-219.	5.9	8
36	A robust sparse approach to acoustic impulse response shaping. , 2015, , .		8

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37	Detection of Impaired Sympathetic Cerebrovascular Control Using Functional Biomarkers Based on Principal Dynamic Mode Analysis. Frontiers in Physiology, 2016, 7, 685.	2.8	8
38	Method for $In-Situ$ Strain Transfer Calibration of Surface Bonded Fiber Bragg Gratings. IEEE Sensors Journal, 2019, 19, 11926-11931.	4.7	8
39	Interference management in cognitive radio systems — A convex optimisation approach. , 2012, , .		7
40	Using circuit analogies for analysis of cochlear models. Biomedical Engineering Letters, 2013, 3, 263-272.	4.1	7
41	A subband Steiglitzâ€McBride algorithm for automatic analysis of FID data. Magnetic Resonance in Chemistry, 2018, 56, 740-747.	1.9	7
42	Performance analysis of Reinforcement Learning for achieving context-awareness and intelligence in Cognitive Radio networks. , 2009, , .		6
43	Power allocation in underlay cognitive radio systems with feasibility detection. , 2012, , .		6
44	Novel algorithm for prediction of wideband mobile MIMO wireless channels. , 2014, , .		6
45	An Electromechanical Model for the Cochlear Microphonic. , 2011, , .		5
46	Soft systematic resampling for accurate posterior approximation and increased information retention in particle filtering. , 2014, , .		5
47	Channel prediction for millimeter wave MIMO systems in 3D propagation environments. , 2017, , .		5
48	Adaptive phase calibration of a microphone array for acoustic holography. Journal of the Acoustical Society of America, 2010, 127, 2368-2376.	1.1	4
49	Performance Analysis of Reinforcement Learning for Achieving Context Awareness and Intelligence in Mobile Cognitive Radio Networks. , 2011, , .		4
50	A non-invasive Cochlear Microphonic measurement system. Medical Engineering and Physics, 2012, 34, 1191-1195.	1.7	4
51	Modelling the generation of the cochlear microphonic. , 2013, 2013, 7168-71.		4
52	A sparsity based approach for acoustic room impulse response shortening. , 2014, , .		4
53	A GPU-accelerated real-time implementation of TRINICON-BSS for multiple separation units. , 2014, , .		4
54	Efficient time-domain simulation of nonlinear, state-space, transmission-line models of the cochlea. Journal of the Acoustical Society of America, 2015, 137, 3559-3562.	1.1	4

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55	Cochlear microphonic broad tuning curves. AIP Conference Proceedings, 2015, , .	0.4	4
56	Oxygen saturation-dependent effects on blood transverse relaxation at low fields. Magnetic Resonance Materials in Physics, Biology, and Medicine, 2022, 35, 805-815.	2.0	4
57	Tracking Wide-Band Targets Having Significant Doppler Shift. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 489-497.	3.2	3
58	C²net: A Cross-Layer Quality of Service (QoS) Architecture for Cognitive Wireless Ad Hoc Networks. , 2008, , .		3
59	An algorithm for power constrained holographic reproduction of sound. , 2010, , .		3
60	Long range parametric channel prediction for narrowband MIMO systems with joint parameter estimation. , 2013, , .		3
61	Statistically robust cooperative beamforming for cognitive radio networks. , 2013, , .		3
62	Asymptotic Error Bounds on Prediction of Narrowband MIMO Wireless Channels. IEEE Signal Processing Letters, 2014, 21, 1103-1107.	3.6	3
63	Vocal individuality of Little Spotted Kiwi (Apteryx owenii). Emu, 2014, 114, 326-336.	0.6	3
64	Fast Algorithms for Acoustic Impulse Response Shaping. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 392-403.	5.8	3
65	A Superfast Toeplitz Matrix Inversion Method for Single- and Multi-Channel Inverse Filters and Its Application to Room Equalization. IEEE/ACM Transactions on Audio Speech and Language Processing, 2021, 29, 3144-3157.	5.8	3
66	Resampling and Network Theory. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 106-119.	2.8	3
67	Bayesian phase tracking for multiple pulse signals. Signal Processing, 2010, 90, 2050-2059.	3.7	2
68	Exploring new and emerging applications of Cognitive Radio systems: Preliminary insights and framework. , 2011, , .		2
69	Soft resampling for improved information retention in particle filtering. , 2013, , .		2
70	Multichannel Wiener filter estimation using source location knowledge for speech enhancement. , 2014, , .		2
71	Trinicon-BSS system incorporating robust dual beamformers for noise reduction. , 2015, , .		2
72	Robust cooperative relay beamforming for cognitive radio networks. , 2016, , .		2

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73	Efficient projection onto a low-dimensional ball. Engineering Optimization, 2019, 51, 537-548.	2.6	2
74	Low Frequency Phase Calibration for a Circular Microphone Array. , 2007, , .		1
75	Learning mechanisms for achieving context awareness and intelligence in Cognitive Radio networks. , 2011, , .		1
76	Statistically robust cognitive radio beamforming. , 2013, , .		1
77	Simultaneous channel estimation and joint time-frequency domain crosstalk cancellation in multichannel personal audio systems. , 2014, , .		1
78	Finite element cochlea box model â€“ Mechanical and electrical analysis of the cochlea. AIP Conference Proceedings, 2015, , .	0.4	1
79	Spatial Correlation of Radial Gaussian and Uniform Spherical Volume Near-Field Source Distributions. IEEE/ACM Transactions on Audio Speech and Language Processing, 2016, 24, 143-150.	5.8	1
80	Performance of the matched filter in sonar systems having time variable gain. IET Radar, Sonar and Navigation, 2020, 14, 425-430.	1.8	1
81	Improved data efficiency for NMR diffusion-relaxation processing. Journal of Magnetic Resonance, 2022, 335, 107124.	2.1	1
82	Characterization of balanced transmission line by microwave techniques. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 2148-2151.	4.6	0
83	Model based prediction of the existence of the spontaneous cochlear microphonic. AIP Conference Proceedings, 2015, , .	0.4	0
84	A Statistically Robust Approach to Acoustic Impulse Response Shaping. IEEE Signal Processing Letters, 2017, 24, 1138-1142.	3.6	0
85	Finite element modelling of electrical coupling in the cochlea. AIP Conference Proceedings, 2018, , .	0.4	0
86	A Fast and Unbiased Minimalistic Resampling Approach for the Particle Filter. , 2021, , .		0
87	A sorted weighting lookahead sampling scheme for accurate and fast particle filtering. , 2021, , .		0
88	Ambisonics and Sonic Simulation in Virtual Reality. , 2021, , .		0