

# Paul D Teal

## List of Publications by Year in descending order

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Version: 2024-02-01

88  
papers

1,237  
citations

566801

15  
h-index

476904

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. <i>Methods in Ecology and Evolution</i> , 2013, 4, 675-683.	2.2	167
2	Spatial correlation for general distributions of scatterers. <i>IEEE Signal Processing Letters</i> , 2002, 9, 305-308.	2.1	133
3	Reinforcement learning for context awareness and intelligence in wireless networks: Review, new features and open issues. <i>Journal of Network and Computer Applications</i> , 2012, 35, 253-267.	5.8	120
4	Optimizing the sensitivity of palladium based hydrogen sensors. <i>Sensors and Actuators B: Chemical</i> , 2018, 259, 10-19.	4.0	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. <i>IEEE Transactions on Vehicular Technology</i> , 2015, 64, 4487-4498.	3.9	37
8	Adaptive truncation of matrix decompositions and efficient estimation of NMR relaxation distributions. <i>Inverse Problems</i> , 2015, 31, 045010.	1.0	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. <i>Journal of the Acoustical Society of America</i> , 2011, 129, 3513-3520.	0.5	33
11	Applications of Reinforcement Learning to Cognitive Radio Networks. , 2010, , .		28
12	Palladium-Based Hydrogen Sensors Using Fiber Bragg Gratings. <i>Journal of Lightwave Technology</i> , 2018, 36, 850-856.	2.7	25
13	Modelling Cochlear Mechanics. <i>BioMed Research International</i> , 2014, 2014, 1-42.	0.9	23
14	Temporal and environmental influences on the vocal behaviour of a nocturnal bird. <i>Journal of Avian Biology</i> , 2014, 45, 591-599.	0.6	23
15	Vocal cooperation between the sexes in <i>L</i> -potted <i>K</i> -iwi <i>A</i> -pteryx owenii. <i>Ibis</i> , 2013, 155, 229-245.	1.0	22
16	Identification of human sympathetic neurovascular control using multivariate wavelet decomposition analysis. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2016, 311, H837-H848.	1.5	21
17	High-Sensitivity Fiber-Optic Sensor for Hydrogen Detection in Gas and Transformer Oil. <i>IEEE Sensors Journal</i> , 2019, 19, 3348-3357.	2.4	21
18	Improving the Sensitivity of Palladium-Based Fiber Optic Hydrogen Sensors. <i>Journal of Lightwave Technology</i> , 2018, 36, 2166-2174.	2.7	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. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2018, 315, R484-R495.	0.9	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. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2015, 23, 2189-2197.	4.0	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. <i>Bioacoustics</i> , 2014, 23, 113-128.	0.7	13
25	Bounds on Extrapolation of Field Knowledge for Long-Range Prediction of Mobile Signals. <i>IEEE Transactions on Wireless Communications</i> , 2004, 3, 672-676.	6.1	11
26	Finite element modelling of cochlear electrical coupling. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 2769-2779.	0.5	11
27	Effect of grease on bearing vibration performance caused by short-time high-temperature exposure. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2020, 42, 1.	0.8	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. <i>IEEE Transactions on Vehicular Technology</i> , 2013, 62, 3711-3720.	3.9	10
30	Parametric Channel Prediction for Narrowband MIMO Systems Using Polarized Antenna Arrays. , 2014, , .		10
31	Robust Cognitive Radio Cooperative Beamforming. <i>IEEE Transactions on Wireless Communications</i> , 2014, 13, 6370-6381.	6.1	10
32	Non-Linear Characterisation of Cerebral Pressure-Flow Dynamics in Humans. <i>PLoS ONE</i> , 2015, 10, e0139470.	1.1	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. <i>Biocybernetics and Biomedical Engineering</i> , 2014, 34, 206-219.	3.3	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. <i>Frontiers in Physiology</i> , 2016, 7, 685.	1.3	8
38	Method for <i>In-Situ</i> Strain Transfer Calibration of Surface Bonded Fiber Bragg Gratings. <i>IEEE Sensors Journal</i> , 2019, 19, 11926-11931.	2.4	8
39	Interference management in cognitive radio systems &#x2014; A convex optimisation approach. , 2012, , .		7
40	Using circuit analogies for analysis of cochlear models. <i>Biomedical Engineering Letters</i> , 2013, 3, 263-272.	2.1	7
41	A subband Steiglitz&McBride algorithm for automatic analysis of FID data. <i>Magnetic Resonance in Chemistry</i> , 2018, 56, 740-747.	1.1	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. <i>Journal of the Acoustical Society of America</i> , 2010, 127, 2368-2376.	0.5	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. <i>Medical Engineering and Physics</i> , 2012, 34, 1191-1195.	0.8	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. <i>Journal of the Acoustical Society of America</i> , 2015, 137, 3559-3562.	0.5	4

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55	Cochlear microphonic broad tuning curves. AIP Conference Proceedings, 2015, , .	0.3	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.	1.1	4
57	Tracking Wide-Band Targets Having Significant Doppler Shift. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 489-497.	3.8	3
58	C <sup>2</sup> net: 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.	2.1	3
63	Vocal individuality of Little Spotted Kiwi ( <i>Apteryx owenii</i> ). Emu, 2014, 114, 326-336.	0.2	3
64	Fast Algorithms for Acoustic Impulse Response Shaping. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 392-403.	4.0	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.	4.0	3
66	Resampling and Network Theory. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 106-119.	1.6	3
67	Bayesian phase tracking for multiple pulse signals. Signal Processing, 2010, 90, 2050-2059.	2.1	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. <i>Engineering Optimization</i> , 2019, 51, 537-548.	1.5	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 – Mechanical and electrical analysis of the cochlea. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
79	Spatial Correlation of Radial Gaussian and Uniform Spherical Volume Near-Field Source Distributions. <i>IEEE/ACM Transactions on Audio Speech and Language Processing</i> , 2016, 24, 143-150.	4.0	1
80	Performance of the matched filter in sonar systems having time variable gain. <i>IET Radar, Sonar and Navigation</i> , 2020, 14, 425-430.	0.9	1
81	Improved data efficiency for NMR diffusion-relaxation processing. <i>Journal of Magnetic Resonance</i> , 2022, 335, 107124.	1.2	1
82	Characterization of balanced transmission line by microwave techniques. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 1998, 46, 2148-2151.	2.9	0
83	Model based prediction of the existence of the spontaneous cochlear microphonic. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	0
84	A Statistically Robust Approach to Acoustic Impulse Response Shaping. <i>IEEE Signal Processing Letters</i> , 2017, 24, 1138-1142.	2.1	0
85	Finite element modelling of electrical coupling in the cochlea. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	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