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	Improved data efficiency for NMR diffusion-relaxation processing. Journal of Magnetic Resonance, 2022, 335, 107124.	2.1	1
2	Resampling and Network Theory. IEEE Transactions on Signal and Information Processing Over Networks, 2022, 8, 106-119.	2.8	3
3	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
4	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
5	A Fast and Unbiased Minimalistic Resampling Approach for the Particle Filter. , 2021, , .		0
6	A sorted weighting lookahead sampling scheme for accurate and fast particle filtering. , 2021, , .		0
7	Ambisonics and Sonic Simulation in Virtual Reality. , 2021, , .		0
8	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
9	Performance of the matched filter in sonar systems having time variable gain. IET Radar, Sonar and Navigation, 2020, 14, 425-430.	1.8	1
10	Efficient projection onto a low-dimensional ball. Engineering Optimization, 2019, 51, 537-548.	2.6	2
11	Method for $In-Situ$ Strain Transfer Calibration of Surface Bonded Fiber Bragg Gratings. IEEE Sensors Journal, 2019, 19, 11926-11931.	4.7	8
12	Fast Algorithms for Acoustic Impulse Response Shaping. IEEE/ACM Transactions on Audio Speech and Language Processing, 2019, 27, 392-403.	5.8	3
13	High-Sensitivity Fiber-Optic Sensor for Hydrogen Detection in Gas and Transformer Oil. IEEE Sensors Journal, 2019, 19, 3348-3357.	4.7	21
14	A subband Steiglitzâ€McBride algorithm for automatic analysis of FID data. Magnetic Resonance in Chemistry, 2018, 56, 740-747.	1.9	7
15	Improving the Sensitivity of Palladium-Based Fiber Optic Hydrogen Sensors. Journal of Lightwave Technology, 2018, 36, 2166-2174.	4.6	17
16	Optimizing the sensitivity of palladium based hydrogen sensors. Sensors and Actuators B: Chemical, 2018, 259, 10-19.	7.8	59
17	Palladium-Based Hydrogen Sensors Using Fiber Bragg Gratings. Journal of Lightwave Technology, 2018, 36, 850-856.	4.6	25
18	Finite element modelling of electrical coupling in the cochlea. AIP Conference Proceedings, 2018, , .	0.4	0

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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	A Statistically Robust Approach to Acoustic Impulse Response Shaping. IEEE Signal Processing Letters, 2017, 24, 1138-1142.	3.6	0
21	Channel prediction for millimeter wave MIMO systems in 3D propagation environments. , 2017, , .		5
22	Finite element modelling of cochlear electrical coupling. Journal of the Acoustical Society of America, 2016, 140, 2769-2779.	1.1	11
23	Robust cooperative relay beamforming for cognitive radio networks. , 2016, , .		2
24	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
25	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
26	Detection of Impaired Sympathetic Cerebrovascular Control Using Functional Biomarkers Based on Principal Dynamic Mode Analysis. Frontiers in Physiology, 2016, 7, 685.	2.8	8
27	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
28	Model based prediction of the existence of the spontaneous cochlear microphonic. AIP Conference Proceedings, 2015, , .	0.4	0
29	Cochlear microphonic broad tuning curves. AIP Conference Proceedings, 2015, , .	0.4	4
30	Finite element cochlea box model â€" Mechanical and electrical analysis of the cochlea. AIP Conference Proceedings, 2015, , .	0.4	1
31	Non-Linear Characterisation of Cerebral Pressure-Flow Dynamics in Humans. PLoS ONE, 2015, 10, e0139470.	2.5	10
32	A robust sparse approach to acoustic impulse response shaping. , 2015, , .		8
33	Adaptive truncation of matrix decompositions and efficient estimation of NMR relaxation distributions. Inverse Problems, 2015, 31, 045010.	2.0	35
34	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
35	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
36	Trinicon-BSS system incorporating robust dual beamformers for noise reduction. , 2015, , .		2

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37	Modelling Cochlear Mechanics. BioMed Research International, 2014, 2014, 1-42.	1.9	23
38	Asymptotic Error Bounds on Prediction of Narrowband MIMO Wireless Channels. IEEE Signal Processing Letters, 2014, 21, 1103-1107.	3.6	3
39	Parametric Channel Prediction for Narrowband MIMO Systems Using Polarized Antenna Arrays. , 2014, , .		10
40	Simultaneous channel estimation and joint time-frequency domain crosstalk cancellation in multichannel personal audio systems. , 2014, , .		1
41	Novel algorithm for prediction of wideband mobile MIMO wireless channels. , 2014, , .		6
42	Non-linear phenomena in little spotted kiwi calls. Bioacoustics, 2014, 23, 113-128.	1.7	13
43	A sparsity based approach for acoustic room impulse response shortening. , 2014, , .		4
44	A GPU-accelerated real-time implementation of TRINICON-BSS for multiple separation units. , 2014, , .		4
45	Multichannel Wiener filter estimation using source location knowledge for speech enhancement. , 2014, , .		2
46	Robust Cognitive Radio Cooperative Beamforming. IEEE Transactions on Wireless Communications, 2014, 13, 6370-6381.	9.2	10
47	An integrated electromechanical model for the cochlear microphonic. Biocybernetics and Biomedical Engineering, 2014, 34, 206-219.	5.9	8
48	Vocal individuality of Little Spotted Kiwi (Apteryx owenii). Emu, 2014, 114, 326-336.	0.6	3
49	Temporal and environmental influences on the vocal behaviour of a nocturnal bird. Journal of Avian Biology, 2014, 45, 591-599.	1.2	23
50	Soft systematic resampling for accurate posterior approximation and increased information retention in particle filtering. , 2014, , .		5
51	Statistically robust cognitive radio beamforming. , 2013, , .		1
52	Interference Management in Cognitive Radio Systems With Feasibility Detection. IEEE Transactions on Vehicular Technology, 2013, 62, 3711-3720.	6.3	10
53	Using circuit analogies for analysis of cochlear models. Biomedical Engineering Letters, 2013, 3, 263-272.	4.1	7
54	Long range parametric channel prediction for narrowband MIMO systems with joint parameter estimation. , 2013, , .		3

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55	Statistically robust cooperative beamforming for cognitive radio networks. , 2013, , .		3
56	Vocal cooperation between the sexes in <scp>L</scp>ittle <scp>S</scp>potted <scp>K</scp>iwi <i><scp>A</scp>pteryx owenii</i>. Ibis, 2013, 155, 229-245.	1.9	22
57	A practical comparison of manual and autonomous methods for acoustic monitoring. Methods in Ecology and Evolution, 2013, 4, 675-683.	5.2	167
58	Modelling the generation of the cochlear microphonic. , 2013, 2013, 7168-71.		4
59	Soft resampling for improved information retention in particle filtering. , 2013, , .		2
60	Parametric Channel Prediction for Narrowband Mobile MIMO Systems Using Spatio-Temporal Correlation Analysis. , 2013, , .		14
61	Performance of pressure routing in drifting 3D underwater sensor networks for deep water monitoring. , 2012, , .		10
62	Interference management in cognitive radio systems &#x2014; A convex optimisation approach. , 2012, , .		7
63	Power allocation in underlay cognitive radio systems with feasibility detection. , 2012, , .		6
64	Efficient crosstalk canceler design with impulse response shortening filters. , 2012, , .		9
65	A non-invasive Cochlear Microphonic measurement system. Medical Engineering and Physics, 2012, 34, 1191-1195.	1.7	4
66	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
67	A constrained optimization approach for multi-zone surround sound. , 2011, , .		33
68	Exploring new and emerging applications of Cognitive Radio systems: Preliminary insights and framework. , 2011, , .		2
69	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
70	Performance Analysis of Reinforcement Learning for Achieving Context Awareness and Intelligence in Mobile Cognitive Radio Networks. , 2011, , .		4
71	Learning mechanisms for achieving context awareness and intelligence in Cognitive Radio networks. , 2011, , .		1
72	Achieving Context Awareness and Intelligence in Distributed Cognitive Radio Networks: A Payoff Propagation Approach. , 2011, , .		8

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73	An Electromechanical Model for the Cochlear Microphonic. , 2011, , .		5
74	Bayesian phase tracking for multiple pulse signals. Signal Processing, 2010, 90, 2050-2059.	3.7	2
75	An algorithm for power constrained holographic reproduction of sound. , 2010, , .		3
76	Adaptive phase calibration of a microphone array for acoustic holography. Journal of the Acoustical Society of America, 2010, 127, 2368-2376.	1.1	4
77	Applications of Reinforcement Learning to Cognitive Radio Networks. , 2010, , .		28
78	Context-awareness and intelligence in Distributed Cognitive Radio Networks: A Reinforcement Learning approach. , 2010, , .		13
79	Performance analysis of Reinforcement Learning for achieving context-awareness and intelligence in Cognitive Radio networks. , 2009, , .		6
80	Cognitive Radio-based Wireless Sensor Networks: Conceptual design and open issues. , 2009, , .		38
81	A context-aware and Intelligent Dynamic Channel Selection scheme for cognitive radio networks. , 2009, , .		41
82	On Multi-Channel MAC Protocols in Cognitive Radio Networks. , 2008, , .		15
83	C²net: A Cross-Layer Quality of Service (QoS) Architecture for Cognitive Wireless Ad Hoc Networks. , 2008, , .		3
84	Low Frequency Phase Calibration for a Circular Microphone Array. , 2007, , .		1
85	Tracking Wide-Band Targets Having Significant Doppler Shift. IEEE Transactions on Audio Speech and Language Processing, 2007, 15, 489-497.	3.2	3
86	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
87	Spatial correlation for general distributions of scatterers. IEEE Signal Processing Letters, 2002, 9, 305-308.	3.6	133
88	Characterization of balanced transmission line by microwave techniques. IEEE Transactions on Microwave Theory and Techniques, 1998, 46, 2148-2151.	4.6	0