

# Derek Abbott

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

621  
papers

14,373  
citations

62  
h-index

96  
g-index

769  
ext. papers

17,587  
ext. citations

3.6  
avg, IF

7.01  
L-index

#	Paper	IF	Citations
621	ASYMMETRY AND DISORDER: A DECADE OF PARRONDOS PARADOX <b>2022</b> , 175-202		
620	Ultrahigh-Performance ENZ Modulator Based on a Stack of Three-Layer Graphene and ITO. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2022</b> , 28, 1-11	3.8	2
619	Training threshold neural networks by extreme learning machine and adaptive stochastic resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2022</b> , 432, 128008	2.3	0
618	Ethnic disparities in publicly-available pulse oximetry databases. <i>Communications Medicine</i> , <b>2022</b> , 2,		2
617	Single-Step Tabletop Fabrication for Low-Attenuation Terahertz Special Optical Fibers. <i>Advanced Photonics Research</i> , <b>2021</b> , 2, 2100165	1.9	0
616	Noise-Boosted Backpropagation Learning of Feedforward Threshold Neural Networks for Function Approximation. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	1
615	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. <i>Fibers</i> 2020, 8, 14. <i>Fibers</i> , <b>2021</b> , 9, 20	3.7	
614	Signal estimation and filtering from quantized observations via adaptive stochastic resonance. <i>Physical Review E</i> , <b>2021</b> , 103, 052108	2.4	5
613	Suppression of the Stimulated Brillouin and Raman Scattering in Actively Q-switched Fiber Lasers through Temporal Pulse Shaping. <i>Annalen Der Physik</i> , <b>2021</b> , 533, 2000541	2.6	0
612	Enhancing threshold neural network via suprathreshold stochastic resonance for pattern classification. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2021</b> , 403, 127387	2.3	5
611	Hollow Core Inhibited Coupled Antiresonant Terahertz Fiber: A Numerical and Experimental Study. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2021</b> , 11, 245-260	3.4	6
610	Transcranial Low-Intensity Pulsed Ultrasound Stimulation Induces Neuronal Autophagy. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , <b>2021</b> , 68, 46-53	3.2	1
609	A Noise-Boosted Remaining Useful Life Prediction Method for Rotating Machines Under Different Conditions. <i>IEEE Transactions on Instrumentation and Measurement</i> , <b>2021</b> , 70, 1-12	5.2	2
608	Study of vibrational resonance in nonlinear signal processing. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2021</b> , 379, 20200235	3	3
607	Correction to: Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology <i>IEEE Access</i> , <b>2021</b> , 9, 2705-2705	3.5	
606	Wide Bandgap DCDC Converter Topologies for Power Applications. <i>Proceedings of the IEEE</i> , <b>2021</b> , 109, 1253-1275	14.3	6
605	A high-performance TE modulator/TM-pass polarizer using selective mode shaping in a VO <sub>2</sub> -based side-polished fiber. <i>Nanophotonics</i> , <b>2021</b> ,	6.3	6

604	Linearity and Nonlinearity in Hollow-Core Antiresonant Fiber Sensors in the Terahertz Regime. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2021</b> , 24, 5-11	1.4	
603	The development of tumour vascular networks. <i>Communications Biology</i> , <b>2021</b> , 4, 1111	6.7	4
602	Distributed Bayesian vector estimation using noise-optimized low-resolution sensor observations <b>2021</b> , 118, 103224		2
601	Parallel and Distributed Optimization Method with Constraint Decomposition for Energy Management of Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2021</b> , 1-1	10.7	5
600	Impact of Data Transformation: An ECG Heartbeat Classification Approach. <i>Frontiers in Digital Health</i> , <b>2020</b> , 2, 610956	2.3	2
599	DC is the Future [Point of View]. <i>Proceedings of the IEEE</i> , <b>2020</b> , 108, 615-624	14.3	14
598	Tunable Terahertz Graphene-Based Absorber Design Method Based on a Circuit Model Approach. <i>IEEE Access</i> , <b>2020</b> , 8, 70343-70354	3.5	13
597	Experimental Realization of Parrondo's Paradox in 1D Quantum Walks. <i>Advanced Quantum Technologies</i> , <b>2020</b> , 3, 1900127	4.3	3
596	Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism. <i>Molecular and Cellular Proteomics</i> , <b>2020</b> , 19, 852-870	7.6	16
595	Quantification of Atherosclerotic Plaque Elasticity Using Ultrasonic Texture Matching. <i>IEEE Access</i> , <b>2020</b> , 8, 94268-94278	3.5	1
594	Universal Kriging Prediction of Line-of-Sight Microwave Fading. <i>IEEE Access</i> , <b>2020</b> , 8, 74743-74758	3.5	2
593	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. <i>IEEE Access</i> , <b>2020</b> , 8, 113309-113317	3.5	13
592	Nonlinear retinal response modeling for future neuromorphic instrumentation. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2020</b> , 23, 21-29	1.4	3
591	. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2020</b> , 26, 1-6	3.8	9
590	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	36
589	Global channel attention networks for intracranial vessel segmentation. <i>Computers in Biology and Medicine</i> , <b>2020</b> , 118, 103639	7	10
588	Linear measurements from nonlinear sensors: Identifying distortion with incidental noise. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2020</b> , 23, 50-55	1.4	
587	Hilbert's forgotten equation, the equivalence principle and velocity dependence of free fall. <i>European Journal of Physics</i> , <b>2020</b> , 41, 035604	0.8	

586	Angiogenic Networks in Tumors-Insights via Mathematical Modeling. <i>IEEE Access</i> , <b>2020</b> , 8, 43215-43228	3.5	5
585	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. <i>Fibers</i> , <b>2020</b> , 8, 14	3.7	15
584	Physical unclonable functions. <i>Nature Electronics</i> , <b>2020</b> , 3, 81-91	28.4	90
583	Exploring \$Bona~Fide\$ Optimal Noise for Bayesian Parameter Estimation. <i>IEEE Access</i> , <b>2020</b> , 8, 18822-18831	3.5	2
582	Comparative Study of Discrete PI and PR Controls for Single-Phase UPS Inverter. <i>IEEE Access</i> , <b>2020</b> , 8, 45584-45595	3.5	22
581	Binary signal transmission in nonlinear sensors: Stochastic resonance and human hand balance. <i>IEEE Instrumentation and Measurement Magazine</i> , <b>2020</b> , 23, 44-49	1.4	5
580	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , <b>2020</b> , 8, 97204-97214	3.5	24
579	Mid-infrared hybrid Si/VO modulator electrically driven by graphene electrodes. <i>Optics Express</i> , <b>2020</b> , 28, 9198-9207	3.3	17
578	Terahertz optical fibers [Invited]. <i>Optics Express</i> , <b>2020</b> , 28, 16089-16117	3.3	48
577	Assessment of Hypertension Using Clinical Electrocardiogram Features: A First-Ever Review. <i>Frontiers in Medicine</i> , <b>2020</b> , 7, 583331	4.9	4
576	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. <i>Carbon</i> , <b>2020</b> , 158, 559-567	10.4	97
575	Stochastic resonance in Hopfield neural networks for transmitting binary signals. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2020</b> , 384, 126143	2.3	13
574	Composing recipes based on nutrients in food in a machine learning context. <i>Neurocomputing</i> , <b>2020</b> , 415, 382-396	5.4	0
573	Deep learning-based cardiovascular image diagnosis: A promising challenge. <i>Future Generation Computer Systems</i> , <b>2020</b> , 110, 802-811	7.5	50
572	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. <i>Journal of Clinical Medicine</i> , <b>2020</b> , 9,	5.1	10
571	Neural evidence for long-term marriage shaping the functional brain network organization between couples. <i>NeuroImage</i> , <b>2019</b> , 199, 87-92	7.9	3
570	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. <i>IEEE Access</i> , <b>2019</b> , 7, 79085-79094	3.5	67
569	On moment of velocity for signal analysis. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 182001	3.3	2

568	Adventures in Stochastics. <i>Understanding Complex Systems</i> , <b>2019</b> , 310-317	0.4	
567	How Effective Is Pulse Arrival Time for Evaluating Blood Pressure? Challenges and Recommendations from a Study Using the MIMIC Database. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	25
566	How real are observed trends in small correlated datasets?. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 181089	3.3	3
565	A Digital Neuromorphic Realization of the 2-D Wilson Neuron Model. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2019</b> , 66, 136-140	3.5	10
564	Noise Benefits in Combined Nonlinear Bayesian Estimators. <i>IEEE Transactions on Signal Processing</i> , <b>2019</b> , 67, 4611-4623	4.8	13
563	Can C-Reactive Protein (CRP) Time Series Forecasting be Achieved via Deep Learning?. <i>IEEE Access</i> , <b>2019</b> , 7, 59311-59320	3.5	7
562	The use of photoplethysmography for assessing hypertension. <i>Npj Digital Medicine</i> , <b>2019</b> , 2, 60	15.7	147
561	THE (Temperature Heterogeneity Energy) Aware Routing Protocol for IoT Health Application. <i>IEEE Access</i> , <b>2019</b> , 7, 108957-108968	3.5	16
560	Truels and strategies for survival. <i>Scientific Reports</i> , <b>2019</b> , 9, 8996	4.9	3
559	Broadband Characterization of Glass and Polymer Materials Using THz-TDS <b>2019</b> ,		9
558	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. <i>Journal of Clinical Medicine</i> , <b>2019</b> , 8,	5.1	30
557	Game Theoretical Modelling of Network/Cybersecurity. <i>IEEE Access</i> , <b>2019</b> , 7, 154167-154179	3.5	7
556	Exposed-core localized surface plasmon resonance biosensor. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, 2306	1.7	36
555	Localized surface plasmon resonance biosensor: an improved technique for SERS response intensification. <i>Optics Letters</i> , <b>2019</b> , 44, 1134-1137	3	34
554	Parameter identification using moment of velocity. <i>Royal Society Open Science</i> , <b>2019</b> , 6, 190671	3.3	
553	Distributed Secondary Control and Management of Islanded Microgrids via Dynamic Weights. <i>IEEE Transactions on Smart Grid</i> , <b>2019</b> , 10, 2196-2207	10.7	31
552	A modified hexagonal photonic crystal fiber for terahertz applications. <i>Optical Materials</i> , <b>2018</b> , 79, 336-339	3.9	25
551	A Novel Approach for Spectroscopic Chemical Identification Using Photonic Crystal Fiber in the Terahertz Regime. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 575-582	4	140

550	Low loss and low dispersion hybrid core photonic crystal fiber for terahertz propagation. <i>Photonic Network Communications</i> , <b>2018</b> , 35, 364-373	1.7	32
549	Tutorial: Terahertz beamforming, from concepts to realizations. <i>APL Photonics</i> , <b>2018</b> , 3, 051101	5.2	63
548	Noise Enhancement in Robust Estimation of Location. <i>IEEE Transactions on Signal Processing</i> , <b>2018</b> , 66, 1953-1966	4.8	17
547	Plasmonic Refractive Index Sensor Employing Niobium Nanofilm on Photonic Crystal Fiber. <i>IEEE Photonics Technology Letters</i> , <b>2018</b> , 30, 315-318	2.2	54
546	A novel Zeonex based oligoporous-core photonic crystal fiber for polarization preserving terahertz applications. <i>Optics Communications</i> , <b>2018</b> , 413, 242-248	2	37
545	Influence of vascular geometry on local hemodynamic parameters: phantom and small rodent study. <i>BioMedical Engineering OnLine</i> , <b>2018</b> , 17, 30	4.1	5
544	Centerline Extraction of Vasculature Mesh. <i>IEEE Access</i> , <b>2018</b> , 6, 10257-10268	3.5	7
543	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 133-140	4	123
542	Terahertz Sensing in a Hollow Core Photonic Crystal Fiber. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 4073-4080	4	72
541	Increased beat-to-beat T-wave variability in myocardial infarction patients. <i>Biomedizinische Technik</i> , <b>2018</b> , 63, 123-130	1.3	2
540	Tri-orthogonal polarization diversity reception for non-geosynchronous satellite orbit ionospheric channels. <i>International Journal of Satellite Communications and Networking</i> , <b>2018</b> , 36, 44-65	1.7	3
539	Identification of Ultrasonic Echolucent Carotid Plaques Using Discrete Fréchet Distance Between Bimodal Gamma Distributions. <i>IEEE Transactions on Biomedical Engineering</i> , <b>2018</b> , 65, 949-955	5	6
538	Highly birefringent elliptical core photonic crystal fiber for terahertz application. <i>Optics Communications</i> , <b>2018</b> , 407, 92-96	2	56
537	A Digital Neuromorphic Realization of Pair-Based and Triplet-Based Spike-Timing-Dependent Synaptic Plasticity. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2018</b> , 65, 804-808	3.5	12
536	Sensing of toxic chemicals using polarized photonic crystal fiber in the terahertz regime. <i>Optics Communications</i> , <b>2018</b> , 426, 341-347	2	45
535	Zeonex-based asymmetrical terahertz photonic crystal fiber for multichannel communication and polarization maintaining applications. <i>Applied Optics</i> , <b>2018</b> , 57, 666-672	1.7	55
534	Terahertz detection of alcohol using a photonic crystal fiber sensor. <i>Applied Optics</i> , <b>2018</b> , 57, 2426-2433	1.7	98
533	On detection of periodicity in C-reactive protein (CRP) levels. <i>Scientific Reports</i> , <b>2018</b> , 8, 11979	4.9	14

532	The equivalence of Bell's inequality and the Nash inequality in a quantum game-theoretic setting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2018</b> , 382, 2908-2913	2.3	5
531	Dual-polarized highly sensitive plasmonic sensor in the visible to near-IR spectrum. <i>Optics Express</i> , <b>2018</b> , 26, 30347-30361	3.3	99
530	High Performance Microstrip Low Pass Filter for Wireless Communications. <i>Wireless Personal Communications</i> , <b>2018</b> , 99, 497-507	1.9	6
529	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. <i>Optics Communications</i> , <b>2018</b> , 410, 452-456	2	23
528	A Gold Coated Plasmonic Sensor for Biomedical and Biochemical Analyte Detection <b>2018</b> ,		7
527	Reaction Time Predicts Brain-Computer Interface Aptitude. <i>IEEE Journal of Translational Engineering in Health and Medicine</i> , <b>2018</b> , 6, 2000311	3	5
526	A game theoretical perspective on the quantum probabilities associated with a GHZ state. <i>Quantum Information Processing</i> , <b>2018</b> , 17, 1	1.6	2
525	Quasi-Photonic Crystal Fiber-Based Spectroscopic Chemical Sensor in the Terahertz Spectrum: Design and Analysis. <i>IEEE Sensors Journal</i> , <b>2018</b> , 18, 9948-9954	4	46
524	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. <i>Journal of Clinical Medicine</i> , <b>2018</b> , 7,	5.1	38
523	Subliminal Priming-State of the Art and Future Perspectives. <i>Behavioral Sciences (Basel, Switzerland)</i> , <b>2018</b> , 8,	2.3	25
522	High numerical aperture, highly birefringent novel photonic crystal fibre for medical imaging applications. <i>Electronics Letters</i> , <b>2018</b> , 54, 61-62	1.1	48
521	Cost-Based Droop Schemes for Economic Dispatch in Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , <b>2017</b> , 8, 63-74	10.7	73
520	Planar Triorthogonal Diversity Slot Antenna. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2017</b> , 65, 1416-1421	4.9	21
519	Analysis of beat-to-beat blood pressure variability response to the cold pressor test in the offspring of hypertensive and normotensive parents. <i>Hypertension Research</i> , <b>2017</b> , 40, 581-589	4.7	8
518	Low Loss and Low Dispersion Fiber for Transmission Applications in the Terahertz Regime. <i>IEEE Photonics Technology Letters</i> , <b>2017</b> , 29, 830-833	2.2	21
517	5G Terrestrial Networks: Mobility and Coverage Solution in Three Dimensions. <i>IEEE Access</i> , <b>2017</b> , 5, 8064-8093	3.5	8
516	PUF Sensor: Exploiting PUF Unreliability for Secure Wireless Sensing. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , <b>2017</b> , 64, 2532-2543	3.9	23
515	A Hybrid CMOS-Memristor Neuromorphic Synapse. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2017</b> , 11, 434-445	5.1	73

514	Terahertz Reflectarrays and Nonuniform Metasurfaces. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , <b>2017</b> , 23, 1-18	3.8	26
513	Extremely low material loss and dispersion flattened TOPAS based circular porous fiber for long distance terahertz wave transmission. <i>Optical Fiber Technology</i> , <b>2017</b> , 34, 6-11	2.4	61
512	Evaluation of carotid plaque echogenicity based on the integral of the cumulative probability distribution using gray-scale ultrasound images. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185261	3.7	6
511	A battery-less and wireless wearable sensor system for identifying bed and chair exits in a pilot trial in hospitalized older people. <i>PLoS ONE</i> , <b>2017</b> , 12, e0185670	3.7	22
510	PUF-FSM: A Controlled Strong PUF. <i>IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems</i> , <b>2017</b> , 1-1	2.5	8
509	Exploiting vibrational resonance in weak-signal detection. <i>Physical Review E</i> , <b>2017</b> , 96, 022141	2.4	18
508	Investigating the impact of feedback update interval on the efficacy of restorative brain-computer interfaces. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 170660	3.3	6
507	Planar slot antenna with circular and vertical polarization diversity. <i>Microwave and Optical Technology Letters</i> , <b>2017</b> , 59, 2479-2484	1.2	1
506	Near-zero dispersion flattened, low-loss porous-core waveguide design for terahertz signal transmission. <i>Optical Engineering</i> , <b>2017</b> , 56, 076114	1.1	31
505	Design and characterization of a low-loss, dispersion-flattened photonic crystal fiber for terahertz wave propagation. <i>Optik</i> , <b>2017</b> , 145, 398-406	2.5	32
504	Adaptive recursive algorithm for optimal weighted suprathreshold stochastic resonance. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 160889	3.3	7
503	Terahertz time-domain spectroscopy of edible oils. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 170275	3.3	6
502	Networked and Distributed Control Method With Optimal Power Dispatch for Islanded Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , <b>2017</b> , 64, 493-504	8.9	35
501	A novel Zeonex based photonic sensor for alcohol detection in beverages <b>2017</b> ,		13
500	Kidnapping model: an extension of Selten's game. <i>Royal Society Open Science</i> , <b>2017</b> , 4, 171484	3.3	2
499	Efficient terahertz metasurface-based flat lens <b>2017</b> ,		1
498	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. <i>Optics Letters</i> , <b>2017</b> , 42, 1867-1870	3	38
497	Ultra low-loss hybrid core porous fiber for broadband applications. <i>Applied Optics</i> , <b>2017</b> , 56, 1232-1237	0.2	47



496	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor Band Modulation. <i>Frontiers in Neuroscience</i> , <b>2017</b> , 11, 60	5.1	26
495	Alterations in Spontaneous Brain Activity and Functional Network Reorganization Following Surgery in Children with Medically Refractory Epilepsy: A Resting-State Functional Magnetic Resonance Imaging Study. <i>Frontiers in Neurology</i> , <b>2017</b> , 8, 374	4.1	14
494	A Digital Realization of Astrocyte and Neural Glial Interactions. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , <b>2016</b> , 10, 518-29	5.1	29
493	Compact Second-Order Bandstop Filter Based on Dual-Mode Complementary Split-Ring Resonator. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2016</b> , 26, 571-573	2.6	24
492	Analysis of 3D-printed metal for rapid-prototyped reflective terahertz optics. <i>Optics Express</i> , <b>2016</b> , 24, 17384-96	3.3	21
491	Towards an information-theoretic model of the Allison mixture stochastic process. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , <b>2016</b> , 2016, 054041	1.9	3
490	Capacity of very noisy communication channels based on Fisher information. <i>Scientific Reports</i> , <b>2016</b> , 6, 27946	4.9	7
489	An output-only nonlinear system identification technique suited to integer arithmetic <b>2016</b> ,		1
488	Microwave microfluidic sensor based on microstrip-line-coupled complementary resonator <b>2016</b> ,		8
487	Terahertz Signal Classification Based on Geometric Algebra. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2016</b> , 6, 793-802	3.4	8
486	Tri-orthogonal polarization diversity for 5G networks. <i>Transactions on Emerging Telecommunications Technologies</i> , <b>2016</b> , 27, 992-999	1.9	3
485	A review of beat-to-beat vectorcardiographic (VCG) parameters for analyzing repolarization variability in ECG signals. <i>Biomedizinische Technik</i> , <b>2016</b> , 61, 3-17	1.3	8
484	Too good to be true: when overwhelming evidence fails to convince. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , <b>2016</b> , 472, 20150748	2.4	12
483	Multiagent-Based Reactive Power Sharing and Control Model for Islanded Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , <b>2016</b> , 7, 1232-1244	8.2	33
482	Emerging Physical Unclonable Functions With Nanotechnology. <i>IEEE Access</i> , <b>2016</b> , 4, 61-80	3.5	99
481	Pattern identification of biomedical images with time series: Contrasting THz pulse imaging with DCE-MRIs. <i>Artificial Intelligence in Medicine</i> , <b>2016</b> , 67, 1-23	7.4	12
480	Varactor-Tunable Second-Order Bandpass Frequency-Selective Surface With Embedded Bias Network. <i>IEEE Transactions on Antennas and Propagation</i> , <b>2016</b> , 64, 1672-1680	4.9	92
479	Read operation performance of large selectorless cross-point array with self-rectifying memristive device. <i>The Integration VLSI Journal</i> , <b>2016</b> , 54, 56-64	1.4	19

478	Tracking Aggregation and Fibrillation of Globular Proteins Using Terahertz and Far-Infrared Spectroscopies. <i>IEEE Transactions on Terahertz Science and Technology</i> , <b>2016</b> , 6, 45-53	3.4	17
477	Encoding efficiency of suprathreshold stochastic resonance on stimulus-specific information. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , <b>2016</b> , 380, 33-39	2.3	20
476	Digital Multiplierless Realization of Two-Coupled Biological HindmarshRose Neuron Model. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , <b>2016</b> , 63, 463-467	3.5	29
475	A pilot study: Can heart rate variability (HRV) be determined using short-term photoplethysmograms?. <i>F1000Research</i> , <b>2016</b> , 5, 2354	3.6	2
474	A Six-Step Framework on Biomedical Signal Analysis for Tackling Noncommunicable Diseases: Current and Future Perspectives. <i>JMIR Biomedical Engineering</i> , <b>2016</b> , 1, e1	1.3	15
473	A Proof-of-Concept Study: Simple and Effective Detection of P and T Waves in Arrhythmic ECG Signals. <i>Bioengineering</i> , <b>2016</b> , 3,	5.3	24
472	Time As a Geometric Property of Space. <i>Frontiers in Physics</i> , <b>2016</b> , 4,	3.9	2
471	Wideband substrate-integrated monopole antenna. <i>Microwave and Optical Technology Letters</i> , <b>2016</b> , 58, 1855-1857	1.2	0
470	On the equivalence between non-factorizable mixed-strategy classical games and quantum games. <i>Royal Society Open Science</i> , <b>2016</b> , 3, 150477	3.3	15
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301	Local CT Using a THz QCL <b>2012</b> , 221-244		
300	Terahertz Sources and Detectors <b>2012</b> , 9-26		10
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297	Fabrication and modeling of Ag/TiO <sub>2</sub> /ITO memristor <b>2011</b> ,		9
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291	Memristor-based synaptic networks and logical operations using in-situ computing <b>2011</b> ,		12
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275	High quality factor mm-wave coplanar strip resonator based on split ring resonators <b>2011</b> ,		2
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156	Molecular and structural preservation of dehydrated bio-tissue for THz spectroscopy <b>2006</b> ,		2
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145	One-dimensional wavelet transforms and their application to T-ray pulsed signal identification <b>2005</b> ,		1
144	Coherence as a feature of real HF signals <b>2005</b> ,		1
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142	Multiple medical image ROI authentication using watermarking <b>2005</b> , 5651, 221		1
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132	Simulation of terahertz radiation in stratified media <b>2005</b> ,		2
131	Adaptive battle agents: emergence in artificial life combat models <b>2005</b> ,		2
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102	Techniques for noise removal from EEG, EOG, and airflow signals in sleep patients <b>2004</b> ,		2
101	Generalized noise resonance: using noise for signal enhancement <b>2004</b> , 5467, 163		

100	Neural mechanisms for analog-to-digital conversion <b>2004</b> , 5275, 278		0
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