

Derek Abbott

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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	What is stochastic resonance? Definitions, misconceptions, debates, and its relevance to biology. <i>PLoS Computational Biology</i> , 2009 , 5, e1000348	5	478
620	High-Sensitivity Metamaterial-Inspired Sensor for Microfluidic Dielectric Characterization. <i>IEEE Sensors Journal</i> , 2014 , 14, 1345-1351	4	395
619	Metamaterial-based microfluidic sensor for dielectric characterization. <i>Sensors and Actuators A: Physical</i> , 2013 , 189, 233-237	3.9	249
618	Liquid metal enabled pump. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 3304-9	11.5	230
617	Metamaterials in the Terahertz Regime. <i>IEEE Photonics Journal</i> , 2009 , 1, 99-118	1.8	225
616	Losing strategies can win by Parrondo's paradox. <i>Nature</i> , 1999 , 402, 864-864	50.4	222
615	T-ray computed tomography. <i>Optics Letters</i> , 2002 , 27, 1312-4	3	212
614	Terahertz dielectric waveguides. <i>Advances in Optics and Photonics</i> , 2013 , 5, 169	16.7	193
613	New paradoxical games based on brownian ratchets. <i>Physical Review Letters</i> , 2000 , 85, 5226-9	7.4	190
612	THz porous fibers: design, fabrication and experimental characterization. <i>Optics Express</i> , 2009 , 17, 14053-5062	3.5	170
611	Memristor MOS Content Addressable Memory (MCAM): Hybrid Architecture for Future High Performance Search Engines. <i>IEEE Transactions on Very Large Scale Integration (VLSI) Systems</i> , 2011 , 19, 1407-1417	2.6	169
610	Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. <i>IEEE Sensors Journal</i> , 2013 , 13, 1153-1160	4	162
609	Stochastic Resonance: From Suprathreshold Stochastic Resonance to Stochastic Signal Quantization 2008 ,		159
608	Porous fibers: a novel approach to low loss THz waveguides. <i>Optics Express</i> , 2008 , 16, 8845-54	3.3	149
607	The use of photoplethysmography for assessing hypertension. <i>Npj Digital Medicine</i> , 2019 , 2, 60	15.7	147
606	A Novel Approach for Spectroscopic Chemical Identification Using Photonic Crystal Fiber in the Terahertz Regime. <i>IEEE Sensors Journal</i> , 2018 , 18, 575-582	4	140
605	Ultrabroadband reflective polarization convertor for terahertz waves. <i>Applied Physics Letters</i> , 2014 , 105, 181111	3.4	136

604	Revisiting QRS detection methodologies for portable, wearable, battery-operated, and wireless ECG systems. <i>PLoS ONE</i> , 2014 , 9, e84018	3.7	131
603	Optimal wavelet denoising for phonocardiograms. <i>Microelectronics Journal</i> , 2001 , 32, 931-941	1.8	130
602	A review of stochastic resonance: Circuits and measurement. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2002 , 51, 299-309	5.2	129
601	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. <i>IEEE Sensors Journal</i> , 2018 , 18, 133-140	4	123
600	T-ray sensing and imaging. <i>Proceedings of the IEEE</i> , 2007 , 95, 1528-1558	14.3	121
599	Rotation Sensor Based on Horn-Shaped Split Ring Resonator. <i>IEEE Sensors Journal</i> , 2013 , 13, 3014-3015	4	119
598	Mechanically tunable terahertz metamaterials. <i>Applied Physics Letters</i> , 2013 , 102, 121101	3.4	119
597	Uncertainty in terahertz time-domain spectroscopy measurement. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008 , 25, 1059	1.7	108
596	Two-dimensional alignment and displacement sensor based on movable broadside-coupled split ring resonators. <i>Sensors and Actuators A: Physical</i> , 2014 , 210, 18-24	3.9	103
595	Metamaterial-Inspired Rotation Sensor With Wide Dynamic Range. <i>IEEE Sensors Journal</i> , 2014 , 14, 2609-2614	4	102
594	Two-dimensional displacement and alignment sensor based on reflection coefficients of open microstrip lines loaded with split ring resonators. <i>Electronics Letters</i> , 2014 , 50, 620-622	1.1	101
593	Emerging Physical Unclonable Functions With Nanotechnology. <i>IEEE Access</i> , 2016 , 4, 61-80	3.5	99
592	A REVIEW OF PARRONDO'S PARADOX. <i>Fluctuation and Noise Letters</i> , 2002 , 02, R71-R107	1.2	99
591	Dual-polarized highly sensitive plasmonic sensor in the visible to near-IR spectrum. <i>Optics Express</i> , 2018 , 26, 30347-30361	3.3	99
590	Terahertz detection of alcohol using a photonic crystal fiber sensor. <i>Applied Optics</i> , 2018 , 57, 2426-2433	1.7	98
589	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. <i>Carbon</i> , 2020 , 158, 559-567	10.4	97
588	Varactor-Tunable Second-Order Bandpass Frequency-Selective Surface With Embedded Bias Network. <i>IEEE Transactions on Antennas and Propagation</i> , 2016 , 64, 1672-1680	4.9	92
587	Physical unclonable functions. <i>Nature Electronics</i> , 2020 , 3, 81-91	28.4	90

586	Omnidirectional Cylindrical Dielectric Resonator Antenna With Dual Polarization. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2012 , 11, 515-518	3.8	88
585	Metamaterial-Inspired Multichannel Thin-Film Sensor. <i>IEEE Sensors Journal</i> , 2012 , 12, 1455-1458	4	87
584	Label-free bioaffinity detection using terahertz technology. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3789-95	3.8	87
583	Terahertz reflectarray as a polarizing beam splitter. <i>Optics Express</i> , 2014 , 22, 16148-60	3.3	83
582	Scanning the issue: T-ray imaging, sensing, and refection. <i>Proceedings of the IEEE</i> , 2007 , 95, 1509-1513	14.3	83
581	Spike-Based Synaptic Plasticity in Silicon: Design, Implementation, Application, and Challenges. <i>Proceedings of the IEEE</i> , 2014 , 102, 717-737	14.3	82
580	Sub-diffraction thin-film sensing with planar terahertz metamaterials. <i>Optics Express</i> , 2012 , 20, 3345-52	3.3	82
579	Memristive Device Fundamentals and Modeling: Applications to Circuits and Systems Simulation. <i>Proceedings of the IEEE</i> , 2012 , 100, 1991-2007	14.3	81
578	Systolic peak detection in acceleration photoplethysmograms measured from emergency responders in tropical conditions. <i>PLoS ONE</i> , 2013 , 8, e76585	3.7	81
577	T-ray Imaging and Tomography. <i>Journal of Biological Physics</i> , 2003 , 29, 247-56	1.6	78
576	Brownian ratchets and Parrondo's games. <i>Chaos</i> , 2001 , 11, 705-714	3.3	78
575	Low loss, low dispersion and highly birefringent terahertz porous fibers. <i>Optics Communications</i> , 2009 , 282, 36-38	2	77
574	Quantum Parrondo's games. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2002 , 314, 35-42	3.3	77
573	Ultrabroadband Plasmonic Absorber for Terahertz Waves. <i>Advanced Optical Materials</i> , 2015 , 3, 376-380	8.1	76
572	Cost-Based Droop Schemes for Economic Dispatch in Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2017 , 8, 63-74	10.7	73
571	A Hybrid CMOS-Memristor Neuromorphic Synapse. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2017 , 11, 434-445	5.1	73
570	Terahertz Sensing in a Hollow Core Photonic Crystal Fiber. <i>IEEE Sensors Journal</i> , 2018 , 18, 4073-4080	4	72
569	De-noising techniques for terahertz responses of biological samples. <i>Microelectronics Journal</i> , 2001 , 32, 943-953	1.8	69

568	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. <i>IEEE Access</i> , 2019 , 7, 79085-79094	3.5	67
567	Dielectric Resonator Reflectarray as High-Efficiency Nonuniform Terahertz Metasurface. <i>ACS Photonics</i> , 2016 , 3, 1019-1026	6.3	67
566	ASYMMETRY AND DISORDER: A DECADE OF PARRONDO'S PARADOX. <i>Fluctuation and Noise Letters</i> , 2010 , 09, 129-156	1.2	66
565	Advantage of a quantum player over a classical one in 2 \mathbb{Z} quantum games. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2003 , 459, 2463-2474	2.4	66
564	Agent-Based Decentralized Control Method for Islanded Microgrids. <i>IEEE Transactions on Smart Grid</i> , 2015 , 1-1	10.7	64
563	Material thickness optimization for transmission-mode terahertz time-domain spectroscopy. <i>Optics Express</i> , 2008 , 16, 7382-96	3.3	64
562	Analysis of system trade-offs for terahertz imaging. <i>Microelectronics Journal</i> , 2000 , 31, 503-514	1.8	64
561	Second-Order Terahertz Bandpass Frequency Selective Surface With Miniaturized Elements. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 761-769	3.4	63
560	Tutorial: Terahertz beamforming, from concepts to realizations. <i>APL Photonics</i> , 2018 , 3, 051101	5.2	63
559	Plasmonic Resonance toward Terahertz Perfect Absorbers. <i>ACS Photonics</i> , 2014 , 1, 625-630	6.3	62
558	Extremely low material loss and dispersion flattened TOPAS based circular porous fiber for long distance terahertz wave transmission. <i>Optical Fiber Technology</i> , 2017 , 34, 6-11	2.4	61
557	Memristive crypto primitive for building highly secure physical unclonable functions. <i>Scientific Reports</i> , 2015 , 5, 12785	4.9	61
556	Microwave microfluidic sensor for determination of glucose concentration in water 2015 ,		58
555	Quantum Aspects of Life 2008 ,		57
554	Highly birefringent elliptical core photonic crystal fiber for terahertz application. <i>Optics Communications</i> , 2018 , 407, 92-96	2	56
553	Optimal information transmission in nonlinear arrays through suprathreshold stochastic resonance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 352, 183-189	2.3	56
552	Zeonex-based asymmetrical terahertz photonic crystal fiber for multichannel communication and polarization maintaining applications. <i>Applied Optics</i> , 2018 , 57, 666-672	1.7	55
551	Plasmonic Refractive Index Sensor Employing Niobium Nanofilm on Photonic Crystal Fiber. <i>IEEE Photonics Technology Letters</i> , 2018 , 30, 315-318	2.2	54

550	Compact electric-LC resonators for metamaterials. <i>Optics Express</i> , 2010 , 18, 25912-21	3.3	54
549	An ordinary differential equation model for the multistep transformation to cancer. <i>Journal of Theoretical Biology</i> , 2004 , 231, 515-24	2.3	54
548	Identification of biological tissue using chirped probe THz imaging. <i>Microelectronics Journal</i> , 2002 , 33, 1043-1051	1.8	53
547	An analysis of noise enhanced information transmission in an array of comparators. <i>Microelectronics Journal</i> , 2002 , 33, 1079-1089	1.8	53
546	An insect vision-based motion detection chip. <i>IEEE Journal of Solid-State Circuits</i> , 1997 , 32, 279-284	5.5	52
545	Detection of a and b waves in the acceleration photoplethysmogram. <i>BioMedical Engineering OnLine</i> , 2014 , 13, 139	4.1	51
544	Quarter-wavelength multilayer interference filter for terahertz waves. <i>Optics Communications</i> , 2008 , 281, 2374-2379	2	51
543	The paradox of Parrondo's games. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2000 , 456, 247-259	2.4	50
542	Deep learning-based cardiovascular image diagnosis: A promising challenge. <i>Future Generation Computer Systems</i> , 2020 , 110, 802-811	7.5	50
541	Terahertz Magnetic Mirror Realized with Dielectric Resonator Antennas. <i>Advanced Materials</i> , 2015 , 27, 7137-44	24	48
540	Flexible terahertz metamaterials for dual-axis strain sensing. <i>Optics Letters</i> , 2013 , 38, 2104-6	3	48
539	Terahertz optical fibers [Invited]. <i>Optics Express</i> , 2020 , 28, 16089-16117	3.3	48
538	High numerical aperture, highly birefringent novel photonic crystal fibre for medical imaging applications. <i>Electronics Letters</i> , 2018 , 54, 61-62	1.1	48
537	Ultra low-loss hybrid core porous fiber for broadband applications. <i>Applied Optics</i> , 2017 , 56, 1232-1237	0.2	47
536	An Analytical Approach for Memristive Nanoarchitectures. <i>IEEE Nanotechnology Magazine</i> , 2012 , 11, 374-385	2.6	46
535	Planar Array of Electric- $\text{\$}LC\text{\$}$ Resonators With Broadband Tunability. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2011 , 10, 577-580	3.8	46
534	Sensing the hygroscopicity of polymer and copolymer materials using terahertz time-domain spectroscopy. <i>Applied Optics</i> , 2009 , 48, 2262-6	0.2	46
533	Quasi-Photonic Crystal Fiber-Based Spectroscopic Chemical Sensor in the Terahertz Spectrum: Design and Analysis. <i>IEEE Sensors Journal</i> , 2018 , 18, 9948-9954	4	46

532	Sensing of toxic chemicals using polarized photonic crystal fiber in the terahertz regime. <i>Optics Communications</i> , 2018 , 426, 341-347	2	45
531	Cardiorespiratory phase-coupling is reduced in patients with obstructive sleep apnea. <i>PLoS ONE</i> , 2010 , 5, e10602	3-7	44
530	Modeling terahertz heating effects on water. <i>Optics Express</i> , 2010 , 18, 4727-39	3-3	44
529	Cardiac flow analysis applied to phase contrast magnetic resonance imaging of the heart. <i>Annals of Biomedical Engineering</i> , 2009 , 37, 1495-515	4-7	44
528	Overview: Unsolved problems of noise and fluctuations. <i>Chaos</i> , 2001 , 11, 526-538	3-3	43
527	Control systems with stochastic feedback. <i>Chaos</i> , 2001 , 11, 715-724	3-3	41
526	Quantum models of Parrondo's games. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2003 , 324, 152-156	3-3	40
525	INFORMATION TRANSFER RATE OF NEURONS: STOCHASTIC RESONANCE OF SHANNON'S INFORMATION CHANNEL CAPACITY. <i>Fluctuation and Noise Letters</i> , 2001 , 01, L13-L19	1-2	40
524	Numerical removal of water vapour effects from terahertz time-domain spectroscopy measurements. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008 , 464, 2435-2456	2-4	39
523	Support Vector Machine Applications in Terahertz Pulsed Signals Feature Sets. <i>IEEE Sensors Journal</i> , 2007 , 7, 1597-1608	4	39
522	Digital Multiplierless Realization of Two Coupled Biological Morris-Lecar Neuron Model. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2015 , 62, 1805-1814	3-9	38
521	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. <i>Optics Letters</i> , 2017 , 42, 1867-1870	3	38
520	Optimal stimulus and noise distributions for information transmission via suprathreshold stochastic resonance. <i>Physical Review E</i> , 2007 , 75, 061105	2-4	38
519	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. <i>Journal of Clinical Medicine</i> , 2018 , 7,	5-1	38
518	A novel Zeonex based oligoporous-core photonic crystal fiber for polarization preserving terahertz applications. <i>Optics Communications</i> , 2018 , 413, 242-248	2	37
517	Accurate image analysis of the retina using hessian matrix and binarisation of thresholded entropy with application of texture mapping. <i>PLoS ONE</i> , 2014 , 9, e95943	3-7	37
516	Cardiac flow component analysis. <i>Medical Engineering and Physics</i> , 2010 , 32, 174-88	2-4	37
515	Variability of QT interval duration in obstructive sleep apnea: an indicator of disease severity. <i>Sleep</i> , 2008 , 31, 959-66	1-1	37

514	Digital implementation of a biological astrocyte model and its application. <i>IEEE Transactions on Neural Networks and Learning Systems</i> , 2015 , 26, 127-39	10.3	36
513	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	36
512	Quantification of cardiorespiratory interactions based on joint symbolic dynamics. <i>Annals of Biomedical Engineering</i> , 2011 , 39, 2604-14	4.7	36
511	Direct probing of evanescent field for characterization of porous terahertz fibers. <i>Applied Physics Letters</i> , 2011 , 98, 121104	3.4	36
510	Exposed-core localized surface plasmon resonance biosensor. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2019 , 36, 2306	1.7	36
509	Metamaterial-Inspired Bandpass Filters for Terahertz Surface Waves on Goubau Lines. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 851-858	3.4	35
508	Weak signal detection: Condition for noise induced enhancement 2013 , 23, 1585-1591		35
507	Networked and Distributed Control Method With Optimal Power Dispatch for Islanded Microgrids. <i>IEEE Transactions on Industrial Electronics</i> , 2017 , 64, 493-504	8.9	35
506	Binary modulated signal detection in a bistable receiver with stochastic resonance. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2007 , 376, 173-190	3.3	35
505	Surface roughness detection of arteries via texture analysis of ultrasound images for early diagnosis of atherosclerosis. <i>PLoS ONE</i> , 2013 , 8, e76880	3.7	35
504	Theoretical modeling of micro-scale biological phenomena in human coronary arteries. <i>Medical and Biological Engineering and Computing</i> , 2006 , 44, 971-82	3.1	34
503	Scaling in small-world resistor networks. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006 , 350, 324-330	2.3	34
502	Localized surface plasmon resonance biosensor: an improved technique for SERS response intensification. <i>Optics Letters</i> , 2019 , 44, 1134-1137	3	34
501	Multiagent-Based Reactive Power Sharing and Control Model for Islanded Microgrids. <i>IEEE Transactions on Sustainable Energy</i> , 2016 , 7, 1232-1244	8.2	33
500	A New Transient Attack on the Kish Key Distribution System. <i>IEEE Access</i> , 2015 , 3, 1640-1648	3.5	33
499	Dual-mode behavior of the complementary electric-LC resonators loaded on transmission line: Analysis and applications. <i>Journal of Applied Physics</i> , 2014 , 116, 083705	2.5	33
498	Terahertz spectroscopy of snap-frozen human brain tissue: an initial study. <i>Electronics Letters</i> , 2009 , 45, 343	1.1	33
497	Double modulated differential THz-TDS for thin film dielectric characterization. <i>Microelectronics Journal</i> , 2002 , 33, 1033-1042	1.8	33

496	Towards functional 3D T-ray imaging. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3735-42	3.8	33
495	Low loss and low dispersion hybrid core photonic crystal fiber for terahertz propagation. <i>Photonic Network Communications</i> , 2018 , 35, 364-373	1.7	32
494	Geometric Algebra for Electrical and Electronic Engineers. <i>Proceedings of the IEEE</i> , 2014 , 102, 1340-1363	14.3	32
493	Design and characterization of a low-loss, dispersion-flattened photonic crystal fiber for terahertz wave propagation. <i>Optik</i> , 2017 , 145, 398-406	2.5	32
492	Stochastic resonance in a parallel array of nonlinear dynamical elements. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 2159-2166	2.3	32
491	A CHARACTERIZATION OF SUPRATHRESHOLD STOCHASTIC RESONANCE IN AN ARRAY OF COMPARATORS BY CORRELATION COEFFICIENT. <i>Fluctuation and Noise Letters</i> , 2002 , 02, L205-L220	1.2	32
490	Obfuscated challenge-response: A secure lightweight authentication mechanism for PUF-based pervasive devices 2016 ,		32
489	Digital multiplierless implementation of the biological FitzHugh-Nagumo model. <i>Neurocomputing</i> , 2015 , 165, 468-476	5.4	31
488	Near-zero dispersion flattened, low-loss porous-core waveguide design for terahertz signal transmission. <i>Optical Engineering</i> , 2017 , 56, 076114	1.1	31
487	Distributed Secondary Control and Management of Islanded Microgrids via Dynamic Weights. <i>IEEE Transactions on Smart Grid</i> , 2019 , 10, 2196-2207	10.7	31
486	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. <i>Journal of Clinical Medicine</i> , 2019 , 8,	5.1	30
485	Fast T Wave Detection Calibrated by Clinical Knowledge with Annotation of P and T Waves. <i>Sensors</i> , 2015 , 15, 17693-714	3.8	30
484	Terahertz scattering by granular composite materials: An effective medium theory. <i>Applied Physics Letters</i> , 2012 , 100, 011107	3.4	30
483	A Digital Realization of Astrocyte and Neural Glial Interactions. <i>IEEE Transactions on Biomedical Circuits and Systems</i> , 2016 , 10, 518-29	5.1	29
482	Digital Multiplierless Realization of Two-Coupled Biological Hindmarsh-Rose Neuron Model. <i>IEEE Transactions on Circuits and Systems II: Express Briefs</i> , 2016 , 63, 463-467	3.5	29
481	Compact Dual-Mode Wideband Filter Based on Complementary Split-Ring Resonator. <i>IEEE Microwave and Wireless Components Letters</i> , 2014 , 24, 152-154	2.6	29
480	Addressing the Intermittency Challenge: Massive Energy Storage in a Sustainable Future. <i>Proceedings of the IEEE</i> , 2012 , 100, 317-321	14.3	29
479	Terahertz spectroscopic differentiation of microstructures in protein gels. <i>Optics Express</i> , 2009 , 17, 13103-15	3.15	29

478	Cleaving of Extremely Porous Polymer Fibers. <i>IEEE Photonics Journal</i> , 2009 , 1, 286-292	1.8	29
477	Coevolution of quantum and classical strategies on evolving random networks. <i>PLoS ONE</i> , 2013 , 8, e68423	3.7	28
476	Quantum strategies win in a defector-dominated population. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2012 , 391, 3316-3322	3.3	27
475	Split Ring Resonators With Tapered Strip Width for Wider Bandwidth and Enhanced Resonance. <i>IEEE Microwave and Wireless Components Letters</i> , 2012 , 22, 450-452	2.6	27
474	Probabilistic analysis of three-player symmetric quantum games played using the Einstein-Podolsky-Rosen-Bohm setting. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2008 , 372, 6564-6577	2.3	27
473	Terahertz Reflectarrays and Nonuniform Metasurfaces. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-18	3.8	26
472	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor Band Modulation. <i>Frontiers in Neuroscience</i> , 2017 , 11, 60	5.1	26
471	Medical image diagnostics based on computer-aided flow analysis using magnetic resonance images. <i>Computerized Medical Imaging and Graphics</i> , 2012 , 36, 527-41	7.6	26
470	Effects of adaptive degrees of trust on coevolution of quantum strategies on scale-free networks. <i>Scientific Reports</i> , 2013 , 3, 2949	4.9	26
469	Critical analysis of the Bennett-Riedel attack on secure cryptographic key distributions via the Kirchhoff-Law-Johnson-noise scheme. <i>PLoS ONE</i> , 2013 , 8, e81810	3.7	26
468	A Systemized View of Superluminal Wave Propagation. <i>Proceedings of the IEEE</i> , 2010 , 98, 1775-1786	14.3	26
467	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> , 2019 , 8,	5.1	25
466	A modified hexagonal photonic crystal fiber for terahertz applications. <i>Optical Materials</i> , 2018 , 79, 336-339	3.9	25
465	An improved formalism for quantum computation based on geometric algebra-based study: Grover's search algorithm. <i>Quantum Information Processing</i> , 2013 , 12, 1719-1735	1.6	25
464	Relation between beat-to-beat QT interval variability and T-wave amplitude in healthy subjects. <i>Annals of Noninvasive Electrocardiology</i> , 2012 , 17, 195-203	1.5	25
463	A neuromorphic VLSI design for spike timing and rate based synaptic plasticity. <i>Neural Networks</i> , 2013 , 45, 70-82	9.1	25
462	Minimal Brownian ratchet: an exactly solvable model. <i>Physical Review Letters</i> , 2003 , 91, 220601	7.4	25
461	Subliminal Priming-State of the Art and Future Perspectives. <i>Behavioral Sciences (Basel, Switzerland)</i> , 2018 , 8,	2.3	25

460	Compact Second-Order Bandstop Filter Based on Dual-Mode Complementary Split-Ring Resonator. <i>IEEE Microwave and Wireless Components Letters</i> , 2016 , 26, 571-573	2.6	24
459	Wavelet based local tomographic image using terahertz techniques 2009 , 19, 750-763		24
458	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. <i>IEEE Access</i> , 2020 , 8, 97204-97214	3.5	24
457	A Proof-of-Concept Study: Simple and Effective Detection of P and T Waves in Arrhythmic ECG Signals. <i>Bioengineering</i> , 2016 , 3,	5.3	24
456	PUF Sensor: Exploiting PUF Unreliability for Secure Wireless Sensing. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2017 , 64, 2532-2543	3.9	23
455	APPLICATION OF AUTO REGRESSIVE MODELS OF WAVELET SUB-BANDS FOR CLASSIFYING TERAHERTZ PULSE MEASUREMENTS. <i>Journal of Biological Systems</i> , 2007 , 15, 551-571	1.6	23
454	Simple material parameter estimation via terahertz time-domain spectroscopy. <i>Electronics Letters</i> , 2005 , 41, 800	1.1	23
453	Modelling of blood flow resistance for an atherosclerotic artery with multiple stenoses and poststenotic dilatations. <i>ANZIAM Journal</i> , 2009 , 51, 66		23
452	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. <i>Optics Communications</i> , 2018 , 410, 452-456	2	23
451	Comparative Study of Discrete PI and PR Controls for Single-Phase UPS Inverter. <i>IEEE Access</i> , 2020 , 8, 45584-45595	3.5	22
450	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> , 2017 , 12, e0185670	3.7	22
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