Derek Abbott

List of Publications by Year in descending order

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750 papers	20,427 citations	10373 72 h-index	20343 116 g-index
769 all docs	769 docs citations	769 times ranked	13693 citing authors

#	Article	IF	Citations
1	What Is Stochastic Resonance? Definitions, Misconceptions, Debates, and Its Relevance to Biology. PLoS Computational Biology, 2009, 5, e1000348.	1.5	603
2	High-Sensitivity Metamaterial-Inspired Sensor for Microfluidic Dielectric Characterization. IEEE Sensors Journal, 2014, 14, 1345-1351.	2.4	531
3	The use of photoplethysmography for assessing hypertension. Npj Digital Medicine, 2019, 2, 60.	5.7	359
4	Metamaterial-based microfluidic sensor for dielectric characterization. Sensors and Actuators A: Physical, 2013, 189, 233-237.	2.0	351
5	T-ray computed tomography. Optics Letters, 2002, 27, 1312.	1.7	323
6	Liquid metal enabled pump. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 3304-3309.	3.3	299
7	Metamaterials in the Terahertz Regime. IEEE Photonics Journal, 2009, 1, 99-118.	1.0	295
8	Losing strategies can win by Parrondo's paradox. Nature, 1999, 402, 864-864.	13.7	285
9	Terahertz dielectric waveguides. Advances in Optics and Photonics, 2013, 5, 169.	12.1	282
10	Physical unclonable functions. Nature Electronics, 2020, 3, 81-91.	13.1	239
11	THz porous fibers: design, fabrication and experimental characterization. Optics Express, 2009, 17, 14053.	1.7	222
12	A Novel Approach for Spectroscopic Chemical Identification Using Photonic Crystal Fiber in the Terahertz Regime. IEEE Sensors Journal, 2018, 18, 575-582.	2.4	220
13	Tunable localized surface plasmon graphene metasurface for multiband superabsorption and terahertz sensing. Carbon, 2020, 158, 559-567.	5.4	218
14	Spiral Photonic Crystal Fiber-Based Dual-Polarized Surface Plasmon Resonance Biosensor. IEEE Sensors Journal, 2018, 18, 133-140.	2.4	216
15	New Paradoxical Games Based on Brownian Ratchets. Physical Review Letters, 2000, 85, 5226-5229.	2.9	215
16	Displacement Sensor Based on Diamond-Shaped Tapered Split Ring Resonator. IEEE Sensors Journal, 2013, 13, 1153-1160.	2.4	213
17	Memristor MOS Content Addressable Memory (MCAM): Hybrid Architecture for Future High Performance Search Engines. IEEE Transactions on Very Large Scale Integration (VLSI) Systems, 2011, 19, 1407-1417.	2.1	209
18	Porous fibers: a novel approach to low loss THz waveguides. Optics Express, 2008, 16, 8845.	1.7	189

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19	Ultrabroadband reflective polarization convertor for terahertz waves. Applied Physics Letters, 2014, 105, 181111.	1.5	186
20	Optimal wavelet denoising for phonocardiograms. Microelectronics Journal, 2001, 32, 931-941.	1.1	173
21	A review of stochastic resonance: circuits and measurement. IEEE Transactions on Instrumentation and Measurement, 2002, 51, 299-309.	2.4	172
22	Revisiting QRS Detection Methodologies for Portable, Wearable, Battery-Operated, and Wireless ECG Systems. PLoS ONE, 2014, 9, e84018.	1.1	170
23	Rotation Sensor Based on Horn-Shaped Split Ring Resonator. IEEE Sensors Journal, 2013, 13, 3014-3015.	2.4	158
24	T-Ray Sensing and Imaging. Proceedings of the IEEE, 2007, 95, 1528-1558.	16.4	154
25	Systolic Peak Detection in Acceleration Photoplethysmograms Measured from Emergency Responders in Tropical Conditions. PLoS ONE, 2013, 8, e76585.	1.1	152
26	Terahertz detection of alcohol using a photonic crystal fiber sensor. Applied Optics, 2018, 57, 2426.	0.9	151
27	Dual-polarized highly sensitive plasmonic sensor in the visible to near-IR spectrum. Optics Express, 2018, 26, 30347.	1.7	148
28	Twoâ€dimensional displacement and alignment sensor based on reflection coefficients of open microstrip lines loaded with split ring resonators. Electronics Letters, 2014, 50, 620-622.	0.5	146
29	Uncertainty in terahertz time-domain spectroscopy measurement. Journal of the Optical Society of America B: Optical Physics, 2008, 25, 1059.	0.9	142
30	Mechanically tunable terahertz metamaterials. Applied Physics Letters, 2013, 102, .	1.5	142
31	Emerging Physical Unclonable Functions With Nanotechnology. IEEE Access, 2016, 4, 61-80.	2.6	141
32	Metamaterial-Inspired Rotation Sensor With Wide Dynamic Range. IEEE Sensors Journal, 2014, 14, 2609-2614.	2.4	140
33	Varactor-Tunable Second-Order Bandpass Frequency-Selective Surface With Embedded Bias Network. IEEE Transactions on Antennas and Propagation, 2016, 64, 1672-1680.	3.1	133
34	Label-free bioaffinity detection using terahertz technology. Physics in Medicine and Biology, 2002, 47, 3789-3795.	1.6	131
35	Two-dimensional alignment and displacement sensor based on movable broadside-coupled split ring resonators. Sensors and Actuators A: Physical, 2014, 210, 18-24.	2.0	131
36	Tutorial: Terahertz beamforming, from concepts to realizations. APL Photonics, 2018, 3, .	3.0	130

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37	Omnidirectional Cylindrical Dielectric Resonator Antenna With Dual Polarization. IEEE Antennas and Wireless Propagation Letters, 2012, 11, 515-518.	2.4	126
38	Deep learning-based cardiovascular image diagnosis: A promising challenge. Future Generation Computer Systems, 2020, 110, 802-811.	4.9	121
39	Terahertz Sensing in a Hollow Core Photonic Crystal Fiber. IEEE Sensors Journal, 2018, 18, 4073-4080.	2.4	119
40	A REVIEW OF PARRONDO'S PARADOX. Fluctuation and Noise Letters, 2002, 02, R71-R107.	1.0	118
41	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. IEEE Access, 2019, 7, 79085-79094.	2.6	116
42	Spike-Based Synaptic Plasticity in Silicon: Design, Implementation, Application, and Challenges. Proceedings of the IEEE, 2014, 102, 717-737.	16.4	114
43	Cost-Based Droop Schemes for Economic Dispatch in Islanded Microgrids. IEEE Transactions on Smart Grid, 2017, 8, 63-74.	6.2	114
44	Terahertz reflectarray as a polarizing beam splitter. Optics Express, 2014, 22, 16148.	1.7	111
45	A Hybrid CMOS-Memristor Neuromorphic Synapse. IEEE Transactions on Biomedical Circuits and Systems, 2017, 11, 434-445.	2.7	108
46	Terahertz optical fibers [Invited]. Optics Express, 2020, 28, 16089.	1.7	108
47	Special Issue on T-Ray Imaging, Sensing, and Retection. Proceedings of the IEEE, 2007, 95, 1509-1513.	16.4	107
48	Memristive Device Fundamentals and Modeling: Applications to Circuits and Systems Simulation. Proceedings of the IEEE, 2012, 100, 1991-2007.	16.4	103
49	T-ray Imaging and Tomography. Journal of Biological Physics, 2003, 29, 247-256.	0.7	102
50	Sub-diffraction thin-film sensing with planar terahertz metamaterials. Optics Express, 2012, 20, 3345.	1.7	100
51	Metamaterial-Inspired Multichannel Thin-Film Sensor. IEEE Sensors Journal, 2012, 12, 1455-1458.	2.4	99
52	Ultrabroadband Plasmonic Absorber for Terahertz Waves. Advanced Optical Materials, 2015, 3, 376-380.	3.6	98
53	Low loss, low dispersion and highly birefringent terahertz porous fibers. Optics Communications, 2009, 282, 36-38.	1.0	96
54	Brownian ratchets and Parrondoâ€™s games. Chaos, 2001, 11, 705-714.	1.0	93

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55	Second-Order Terahertz Bandpass Frequency Selective Surface With Miniaturized Elements. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 761-769.	2.0	92
56	Plasmonic Refractive Index Sensor Employing Niobium Nanofilm on Photonic Crystal Fiber. IEEE Photonics Technology Letters, 2018, 30, 315-318.	1.3	92
57	Cuffless Single-Site Photoplethysmography for Blood Pressure Monitoring. Journal of Clinical Medicine, 2020, 9, 723.	1.0	89
58	Quantum Parrondo's games. Physica A: Statistical Mechanics and Its Applications, 2002, 314, 35-42.	1.2	87
59	Agent-Based Decentralized Control Method for Islanded Microgrids. IEEE Transactions on Smart Grid, 2015, , 1-1.	6.2	87
60	De-noising techniques for terahertz responses of biological samples. Microelectronics Journal, 2001, 32, 943-953.	1.1	86
61	Can Photoplethysmography Replace Arterial Blood Pressure in the Assessment of Blood Pressure?. Journal of Clinical Medicine, 2018, 7, 316.	1.0	84
62	Extremely low material loss and dispersion flattened TOPAS based circular porous fiber for long distance terahertz wave transmission. Optical Fiber Technology, 2017, 34, 6-11.	1.4	83
63	Analysis of system trade-offs for terahertz imaging. Microelectronics Journal, 2000, 31, 503-514.	1.1	82
64	Dielectric Resonator Reflectarray as High-Efficiency Nonuniform Terahertz Metasurface. ACS Photonics, 2016, 3, 1019-1026.	3.2	82
65	Material thickness optimization for transmission-mode terahertz time-domain spectroscopy. Optics Express, 2008, 16, 7382.	1.7	81
66	An insect vision-based motion detection chip. IEEE Journal of Solid-State Circuits, 1997, 32, 279-284.	3.5	80
67	Compact electric-LC resonators for metamaterials. Optics Express, 2010, 18, 25912.	1.7	78
68	Optimal information transmission in nonlinear arrays through suprathreshold stochastic resonance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 352, 183-189.	0.9	77
69	ASYMMETRY AND DISORDER: A DECADE OF PARRONDO'S PARADOX. Fluctuation and Noise Letters, 2010, 09, 129-156.	1.0	77
70	Memristive crypto primitive for building highly secure physical unclonable functions. Scientific Reports, 2015, 5, 12785.	1.6	77
71	Quantum Aspects of Life. , 2008, , .		77
72	Highly birefringent elliptical core photonic crystal fiber for terahertz application. Optics Communications, 2018, 407, 92-96.	1.0	76

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73	Plasmonic Resonance toward Terahertz Perfect Absorbers. ACS Photonics, 2014, 1, 625-630.	3.2	75
74	Quasi-Photonic Crystal Fiber-Based Spectroscopic Chemical Sensor in the Terahertz Spectrum: Design and Analysis. IEEE Sensors Journal, 2018, 18, 9948-9954.	2.4	75
75	Advantage of a quantum player over a classical one in 2 Ã— 2 quantum games. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2003, 459, 2463-2474.	1.0	72
76	Microwave microfluidic sensor for determination of glucose concentration in water. , 2015, , .		72
77	A New Transient Attack on the Kish Key Distribution System. IEEE Access, 2015, 3, 1640-1648.	2.6	72
78	Comparative Study of Discrete PI and PR Controls for Single-Phase UPS Inverter. IEEE Access, 2020, 8, 45584-45595.	2.6	72
79	Identification of biological tissue using chirped probe THz imaging. Microelectronics Journal, 2002, 33, 1043-1051.	1.1	70
80	Detection of a and b waves in the acceleration photoplethysmogram. BioMedical Engineering OnLine, 2014, 13, 139.	1.3	70
81	Sensing of toxic chemicals using polarized photonic crystal fiber in the terahertz regime. Optics Communications, 2018, 426, 341-347.	1.0	70
82	An analysis of noise enhanced information transmission in an array of comparators. Microelectronics Journal, 2002, 33, 1079-1089.	1.1	69
83	An ordinary differential equation model for the multistep transformation to cancer. Journal of Theoretical Biology, 2004, 231, 515-524.	0.8	69
84	Zeonex-based asymmetrical terahertz photonic crystal fiber for multichannel communication and polarization maintaining applications. Applied Optics, 2018, 57, 666.	0.9	68
85	Ultra low-loss hybrid core porous fiber for broadband applications. Applied Optics, 2017, 56, 1232.	2.1	65
86	Multi-Site Photoplethysmography Technology for Blood Pressure Assessment: Challenges and Recommendations. Journal of Clinical Medicine, 2019, 8, 1827.	1.0	65
87	An improved formalism for quantum computation based on geometric algebraâ€"case study: Groverâ€™s search algorithm. Quantum Information Processing, 2013, 12, 1719-1735.	1.0	64
88	Exposed-core localized surface plasmon resonance biosensor. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 2306.	0.9	64
89	Terahertz Magnetic Mirror Realized with Dielectric Resonator Antennas. Advanced Materials, 2015, 27, 7137-7144.	11.1	63
90	The paradox of Parrondo's games. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2000, 456, 247-259.	1.0	62

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91	Quarter-wavelength multilayer interference filter for terahertz waves. Optics Communications, 2008, 281, 2374-2379.	1.0	62
92	Modeling terahertz heating effects on water. Optics Express, 2010, 18, 4727.	1.7	60
93	Flexible terahertz metamaterials for dual-axis strain sensing. Optics Letters, 2013, 38, 2104.	1.7	59
94	Cardiorespiratory Phase-Coupling Is Reduced in Patients with Obstructive Sleep Apnea. PLoS ONE, 2010, 5, e10602.	1.1	58
95	Sensing the hygroscopicity of polymer and copolymer materials using terahertz time-domain spectroscopy. Applied Optics, 2009, 48, 2262.	2.1	57
96	Planar Array of Electric-LC Resonators With Broadband Tunability. IEEE Antennas and Wireless Propagation Letters, 2011, 10, 577-580.	2.4	56
97	Digital Multiplierless Realization of Two Coupled Biological Morris-Lecar Neuron Model. IEEE Transactions on Circuits and Systems I: Regular Papers, 2015, 62, 1805-1814.	3.5	56
98	A novel Zeonex based oligoporous-core photonic crystal fiber for polarization preserving terahertz applications. Optics Communications, 2018, 413, 242-248.	1.0	56
99	High numerical aperture, highly birefringent novel photonic crystal fibre for medical imaging applications. Electronics Letters, 2018, 54, 61-62.	0.5	56
100	How Effective Is Pulse Arrival Time for Evaluating Blood Pressure? Challenges and Recommendations from a Study Using the MIMIC Database. Journal of Clinical Medicine, 2019, 8, 337.	1.0	56
101	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. IEEE Access, 2020, 8, 97204-97214.	2.6	56
102	Localized surface plasmon resonance biosensor: an improved technique for SERS response intensification. Optics Letters, 2019, 44, 1134.	1.7	55
103	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. Optics Letters, 2017, 42, 1867.	1.7	54
104	An Analytical Approach for Memristive Nanoarchitectures. IEEE Nanotechnology Magazine, 2012, 11, 374-385.	1.1	52
105	Metamaterial-Inspired Bandpass Filters for Terahertz Surface Waves on Goubau Lines. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 851-858.	2.0	51
106	Digital Implementation of a Biological Astrocyte Model and Its Application. IEEE Transactions on Neural Networks and Learning Systems, 2015, 26, 127-139.	7.2	51
107	Cardiac Flow Analysis Applied to Phase Contrast Magnetic Resonance Imaging of the Heart. Annals of Biomedical Engineering, 2009, 37, 1495-1515.	1.3	50
108	Subliminal Primingâ€"State of the Art and Future Perspectives. Behavioral Sciences (Basel,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	1.0	50

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109	Overview: Unsolved problems of noise and fluctuations. Chaos, 2001, 11, 526-538.	1.0	49
110	A CHARACTERIZATION OF SUPRATHRESHOLD STOCHASTIC RESONANCE IN AN ARRAY OF COMPARATORS BY CORRELATION COEFFICIENT. Fluctuation and Noise Letters, 2002, 02, L205-L220.	1.0	49
111	Obfuscated challenge-response: A secure lightweight authentication mechanism for PUF-based pervasive devices. , 2016, , .		49
112	Networked and Distributed Control Method With Optimal Power Dispatch for Islanded Microgrids. IEEE Transactions on Industrial Electronics, 2017, 64, 493-504.	5.2	49
113	INFORMATION TRANSFER RATE OF NEURONS: STOCHASTIC RESONANCE OF SHANNON'S INFORMATION CHANNEL CAPACITY. Fluctuation and Noise Letters, 2001, 01, L13-L19.	1.0	48
114	Medical image diagnostics based on computer-aided flow analysis using magnetic resonance images. Computerized Medical Imaging and Graphics, 2012, 36, 527-541.	3.5	48
115	Towards functional 3D T-ray imaging. Physics in Medicine and Biology, 2002, 47, 3735-3742.	1.6	46
116	Numerical removal of water vapour effects from terahertz time-domain spectroscopy measurements. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2008, 464, 2435-2456.	1.0	46
117	Accurate Image Analysis of the Retina Using Hessian Matrix and Binarisation of Thresholded Entropy with Application of Texture Mapping. PLoS ONE, 2014, 9, e95943.	1.1	46
118	Dual-mode behavior of the complementary electric-LC resonators loaded on transmission line: Analysis and applications. Journal of Applied Physics, 2014, 116, .	1.1	46
119	Control systems with stochastic feedback. Chaos, 2001, 11, 715-724.	1.0	45
120	Quantum models of Parrondo's games. Physica A: Statistical Mechanics and Its Applications, 2003, 324, 152-156.	1.2	45
121	Quantification of Cardiorespiratory Interactions Based on Joint Symbolic Dynamics. Annals of Biomedical Engineering, 2011, 39, 2604-2614.	1.3	45
122	Geometric Algebra for Electrical and Electronic Engineers. Proceedings of the IEEE, 2014, 102, 1340-1363.	16.4	45
123	Optimal stimulus and noise distributions for information transmission via suprathreshold stochastic resonance. Physical Review E, 2007, 75, 061105.	0.8	44
124	Multiagent-Based Reactive Power Sharing and Control Model for Islanded Microgrids. IEEE Transactions on Sustainable Energy, 2016, 7, 1232-1244.	5.9	44
125	Digital Multiplierless Realization of Two-Coupled Biological Hindmarshâ€“Rose Neuron Model. IEEE Transactions on Circuits and Systems II: Express Briefs, 2016, 63, 463-467.	2.2	44
126	Double modulated differential THz-TDS for thin film dielectric characterization. Microelectronics Journal, 2002, 33, 1033-1042.	1.1	43

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127	Support Vector Machine Applications in Terahertz Pulsed Signals Feature Sets. IEEE Sensors Journal, 2007, 7, 1597-1608.	2.4	43
128	Cardiac flow component analysis. Medical Engineering and Physics, 2010, 32, 174-188.	0.8	43
129	Weak signal detection: Condition for noise induced enhancement. , 2013, 23, 1585-1591.		43
130	Digital multiplierless implementation of the biological FitzHughâ€“Nagumo model. Neurocomputing, 2015, 165, 468-476.	3.5	43
131	Distributed Secondary Control and Management of Islanded Microgrids via Dynamic Weights. IEEE Transactions on Smart Grid, 2019, 10, 2196-2207.	6.2	43
132	Surface Roughness Detection of Arteries via Texture Analysis of Ultrasound Images for Early Diagnosis of Atherosclerosis. PLoS ONE, 2013, 8, e76880.	1.1	43
133	A Proof-of-Concept Study: Simple and Effective Detection of P and T Waves in Arrhythmic ECG Signals. Bioengineering, 2016, 3, 26.	1.6	42
134	Low loss and flat dispersion Kagome photonic crystal fiber in the terahertz regime. Optics Communications, 2018, 410, 452-456.	1.0	42
135	Terahertz spectroscopy of snap-frozen human brain tissue: an initial study. Electronics Letters, 2009, 45, 343.	0.5	41
136	Fast T Wave Detection Calibrated by Clinical Knowledge with Annotation of P and T Waves. Sensors, 2015, 15, 17693-17714.	2.1	41
137	Terahertz Reflectarrays and Nonuniform Metasurfaces. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-18.	1.9	41
138	DC is the Future [Point of View]. Proceedings of the IEEE, 2020, 108, 615-624.	16.4	41
139	Addressing the Intermittency Challenge: Massive Energy Storage in a Sustainable Future [Scanning the Issue]. Proceedings of the IEEE, 2012, 100, 317-321.	16.4	40
140	A Digital Realization of Astrocyte and Neural Glial Interactions. IEEE Transactions on Biomedical Circuits and Systems, 2016, 10, 518-529.	2.7	40
141	Binary modulated signal detection in a bistable receiver with stochastic resonance. Physica A: Statistical Mechanics and Its Applications, 2007, 376, 173-190.	1.2	39
142	Stochastic resonance in a parallel array of nonlinear dynamical elements. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 2159-2166.	0.9	39
143	Direct probing of evanescent field for characterization of porous terahertz fibers. Applied Physics Letters, 2011, 98, 121104.	1.5	39
144	A neuromorphic VLSI design for spike timing and rate based synaptic plasticity. Neural Networks, 2013, 45, 70-82.	3.3	39

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145	WAVELET DE-NOISING OF OPTICAL TERAHERTZ PULSE IMAGING DATA. Fluctuation and Noise Letters, 2001, 01, L65-L69.	1.0	38
146	Low loss and low dispersion hybrid core photonic crystal fiber for terahertz propagation. Photonic Network Communications, 2018, 35, 364-373.	1.4	38
147	Terahertz scattering by granular composite materials: An effective medium theory. Applied Physics Letters, 2012, 100, .	1.5	37
148	Variability of QT interval duration in obstructive sleep apnea: an indicator of disease severity. Sleep, 2008, 31, 959-66.	0.6	37
149	Theoretical modeling of micro-scale biological phenomena in human coronary arteries. Medical and Biological Engineering and Computing, 2006, 44, 971-982.	1.6	36
150	A Systemized View of Superluminal Wave Propagation. Proceedings of the IEEE, 2010, 98, 1775-1786.	16.4	36
151	Split Ring Resonators With Tapered Strip Width for Wider Bandwidth and Enhanced Resonance. IEEE Microwave and Wireless Components Letters, 2012, 22, 450-452.	2.0	36
152	Critical Analysis of the Bennettâ€“Riedel Attack on Secure Cryptographic Key Distributions via the Kirchhoff-Lawâ€“Johnson-Noise Scheme. PLoS ONE, 2013, 8, e81810.	1.1	36
153	Near-zero dispersion flattened, low-loss porous-core waveguide design for terahertz signal transmission. Optical Engineering, 2017, 56, 076114.	0.5	36
154	Compact Dual-Mode Wideband Filter Based on Complementary Split-Ring Resonator. IEEE Microwave and Wireless Components Letters, 2014, 24, 152-154.	2.0	35
155	PUF Sensor: Exploiting PUF Unreliability for Secure Wireless Sensing. IEEE Transactions on Circuits and Systems I: Regular Papers, 2017, 64, 2532-2543.	3.5	35
156	Design and characterization of a low-loss, dispersion-flattened photonic crystal fiber for terahertz wave propagation. Optik, 2017, 145, 398-406.	1.4	35
157	Tunable Terahertz Graphene-Based Absorber Design Method Based on a Circuit Model Approach. IEEE Access, 2020, 8, 70343-70354.	2.6	35
158	Scaling in small-world resistor networks. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 350, 324-330.	0.9	34
159	Cleaving of Extremely Porous Polymer Fibers. IEEE Photonics Journal, 2009, 1, 286-292.	1.0	34
160	A modified hexagonal photonic crystal fiber for terahertz applications. Optical Materials, 2018, 79, 336-339.	1.7	34
161	Global channel attention networks for intracranial vessel segmentation. Computers in Biology and Medicine, 2020, 118, 103639.	3.9	34
162	Terahertz Spectroscopic Differentiation of Microstructures in Protein Gels. Optics Express, 2009, 17, 13102.	1.7	33

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163	Coevolution of Quantum and Classical Strategies on Evolving Random Networks. PLoS ONE, 2013, 8, e68423.	1.1	33
164	Proprioceptive Feedback Facilitates Motor Imagery-Related Operant Learning of Sensorimotor Î²-Band Modulation. Frontiers in Neuroscience, 2017, 11, 60.	1.4	33
165	Relation between Beatâ€toâ€Beat QT Interval Variability and Tâ€Wave Amplitude in Healthy Subjects. Annals of Noninvasive Electrocardiology, 2012, 17, 195-203.	0.5	32
166	Multimodal Photoplethysmography-Based Approaches for Improved Detection of Hypertension. Journal of Clinical Medicine, 2020, 9, 1203.	1.0	32
167	Probabilistic analysis of three-player symmetric quantum games played using the Einsteinâ€“Podolskyâ€“Rosenâ€“Bohm setting. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 6564-6577.	0.9	31
168	Effects of adaptive degrees of trust on coevolution of quantum strategies on scale-free networks. Scientific Reports, 2013, 3, 2949.	1.6	31
169	Compact Second-Order Bandstop Filter Based on Dual-Mode Complementary Split-Ring Resonator. IEEE Microwave and Wireless Components Letters, 2016, 26, 571-573.	2.0	31
170	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. IEEE Access, 2020, 8, 113309-113317.	2.6	31
171	Planar Triorthogonal Diversity Slot Antenna. IEEE Transactions on Antennas and Propagation, 2017, 65, 1416-1421.	3.1	30
172	A battery-less and wireless wearable sensor system for identifying bed and chair exits in a pilot trial in hospitalized older people. PLoS ONE, 2017, 12, e0185670.	1.1	30
173	Wavelet based local tomographic image using terahertz techniques. , 2009, 19, 750-763.		29
174	Quantum strategies win in a defector-dominated population. Physica A: Statistical Mechanics and Its Applications, 2012, 391, 3316-3322.	1.2	29
175	THE (Temperature Heterogeneity Energy) Aware Routing Protocol for IoT Health Application. IEEE Access, 2019, 7, 108957-108968.	2.6	29
176	Low noise laser-based T-ray spectroscopy of liquids using double-modulated differential time-domain spectroscopy. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S786-S795.	1.4	28
177	Low Loss and Low Dispersion Fiber for Transmission Applications in the Terahertz Regime. IEEE Photonics Technology Letters, 2017, 29, 830-833.	1.3	28
178	Exploiting vibrational resonance in weak-signal detection. Physical Review E, 2017, 96, 022141.	0.8	28
179	Discovery of a Redox Thiol Switch: Implications for Cellular Energy Metabolism. Molecular and Cellular Proteomics, 2020, 19, 852-870.	2.5	28
180	Mid-infrared hybrid Si/VO₂ modulator electrically driven by graphene electrodes. Optics Express, 2020, 28, 9198.	1.7	28

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181	Modelling of blood flow resistance for an atherosclerotic artery with multiple stenoses and poststenotic dilatations. ANZIAM Journal, 0, 51, 66.	0.0	28
182	Quantum two- and three-person duels. Journal of Optics B: Quantum and Semiclassical Optics, 2004, 6, S860-S866.	1.4	27
183	QUANTIZATION IN THE PRESENCE OF LARGE AMPLITUDE THRESHOLD NOISE. Fluctuation and Noise Letters, 2005, 05, L457-L468.	1.0	27
184	Terahertz Imaging for Biomedical Applications. , 2012, , .		27
185	PUF-FSM: A Controlled Strong PUF. IEEE Transactions on Computer-Aided Design of Integrated Circuits and Systems, 2017, , 1-1.	1.9	27
186	Stochastic resonance in Hopfield neural networks for transmitting binary signals. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126143.	0.9	27
187	Multiple embedding using robust watermarks for wireless medical images. , 2004, , .		26
188	Simple material parameter estimation via terahertz time-domain spectroscopy. Electronics Letters, 2005, 41, 800.	0.5	26
189	APPLICATION OF AUTO REGRESSIVE MODELS OF WAVELET SUB-BANDS FOR CLASSIFYING TERAHERTZ PULSE MEASUREMENTS. Journal of Biological Systems, 2007, 15, 551-571.	0.5	26
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