

Brian W-H Ng

List of Publications by Year in descending order

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331670

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times ranked

1345
citing authors

#	ARTICLE	IF	CITATIONS
1	Hollow Core Inhibited Coupled Antiresonant Terahertz Fiber: A Numerical and Experimental Study. IEEE Transactions on Terahertz Science and Technology, 2021, 11, 245-260.	3.1	24
2	Correction to: "Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology". IEEE Access, 2021, 9, 2705-2705.	4.2	0
3	Addendum: Sultana, J., et al. Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers 2020, 8, 14. Fibers, 2021, 9, 20.	4.0	0
4	Linearity and Nonlinearity in Hollow-Core Antiresonant Fiber Sensors in the Terahertz Regime. IEEE Instrumentation and Measurement Magazine, 2021, 24, 5-11.	1.6	0
5	Improved Subaperture Based Aperture-Dependent Motion Compensation Based on Adaptive Blocking and Apodization. , 2021, , .		0
6	Single-Step Tabletop Fabrication for Low Attenuation Terahertz Special Optical Fibers. Advanced Photonics Research, 2021, 2, 2100165.	3.6	2
7	Detection in Sea Clutter Using Sparse Signal Separation. IEEE Transactions on Aerospace and Electronic Systems, 2020, 56, 4384-4394.	4.7	11
8	Exploring Low Loss and Single Mode in Antiresonant Tube Lattice Terahertz Fibers. IEEE Access, 2020, 8, 113309-113317.	4.2	31
9	Terahertz Hollow Core Antiresonant Fiber with Metamaterial Cladding. Fibers, 2020, 8, 14.	4.0	18
10	On the Slow-Time k-Space and its Augmentation in Doppler Radar Tomography. Sensors, 2020, 20, 513.	3.8	2
11	Experimental Study on Glass and Polymers: Determining the Optimal Material for Potential Use in Terahertz Technology. IEEE Access, 2020, 8, 97204-97214.	4.2	56
12	Simulating Time-Series Data for Improved Deep Neural Network Performance. IEEE Access, 2019, 7, 131248-131255.	4.2	20
13	Total rotational velocity estimation in a multistatic ISAR system. IET Radar, Sonar and Navigation, 2019, 13, 368-375.	1.8	2
14	A Hi-Bi Ultra-Sensitive Surface Plasmon Resonance Fiber Sensor. IEEE Access, 2019, 7, 79085-79094.	4.2	116
15	Sparsity-Inducing DOA Estimation of Coherent Signals Under the Coexistence of Mutual Coupling and Nonuniform Noise. IEEE Access, 2019, 7, 40271-40278.	4.2	22
16	DOA Estimation Under Mutual Coupling of Uniform Linear Arrays Using Sparse Reconstruction. IEEE Wireless Communications Letters, 2019, 8, 1004-1007.	5.0	30
17	Efficient Cumulant-Based Methods for Joint Angle and Frequency Estimation Using Spatial-Temporal Smoothing. Electronics (Switzerland), 2019, 8, 82.	3.1	3
18	A Novel Approach for Spectroscopic Chemical Identification Using Photonic Crystal Fiber in the Terahertz Regime. IEEE Sensors Journal, 2018, 18, 575-582.	4.7	220

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19	Low loss and low dispersion hybrid core photonic crystal fiber for terahertz propagation. Photonic Network Communications, 2018, 35, 364-373.	2.7	38
20	A novel Zeonex based oligoporous-core photonic crystal fiber for polarization preserving terahertz applications. Optics Communications, 2018, 413, 242-248.	2.1	56
21	Terahertz Sensing in a Hollow Core Photonic Crystal Fiber. IEEE Sensors Journal, 2018, 18, 4073-4080.	4.7	119
22	Sparsity-aware DOA estimation of quasi-stationary signals using nested arrays. Signal Processing, 2018, 144, 87-98.	3.7	26
23	Highly birefringent elliptical core photonic crystal fiber for terahertz application. Optics Communications, 2018, 407, 92-96.	2.1	76
24	A Gold Coated Plasmonic Sensor for Biomedical and Biochemical Analyte Detection. , 2018, , .		11
25	Zeonex-based asymmetrical terahertz photonic crystal fiber for multichannel communication and polarization maintaining applications. Applied Optics, 2018, 57, 666.	1.8	68
26	Target Detection in Sea-Clutter Using Stationary Wavelet Transforms. IEEE Transactions on Aerospace and Electronic Systems, 2017, 53, 1136-1146.	4.7	32
27	5G Terrestrial Networks: Mobility and Coverage Solution in Three Dimensions. IEEE Access, 2017, 5, 8064-8093.	4.2	15
28	Long-baseline 3D interferometric ISAR. , 2017, , .		0
29	Estimation of the total rotational velocity of a non-cooperative target with a high cross-range resolution three-dimensional interferometric inverse synthetic aperture radar system. IET Radar, Sonar and Navigation, 2017, 11, 1020-1029.	1.8	14
30	A novel Zeonex based photonic sensor for alcohol detection in beverages. , 2017, , .		26
31	Two-stage DOA estimation of independent and coherent signals in spatially coloured noise. Signal Processing, 2016, 128, 350-359.	3.7	6
32	Total rotational velocity estimation using 3D interferometric ISAR with squint geometry. , 2016, , .		8
33	Kurtosis-based estimation of cross-range scaling factor for high-resolution inverse synthetic aperture radar imaging. Journal of Applied Remote Sensing, 2016, 10, 030502.	1.3	3
34	Terahertz Signal Classification Based on Geometric Algebra. IEEE Transactions on Terahertz Science and Technology, 2016, 6, 793-802.	3.1	10
35	Target detection in sea clutter using resonance based signal decomposition. , 2016, , .		13
36	Analysis of millimetre-wave polarization diverse multiple-input multiple-output capacity. Royal Society Open Science, 2015, 2, 150322.	2.4	9

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37	DOA Estimation under Unknown Mutual Coupling and Multipath with Improved Effective Array Aperture. <i>Sensors</i> , 2015, 15, 30856-30869.	3.8	26
38	Estimation of the total rotational velocity of a non-cooperative target using a 3D InSAR system. , 2015, , .		8
39	Over-the-horizon aircraft detection using skywave AM-radio broadcast signals. , 2015, , .		2
40	The potential of 2D wavelet transforms for target detection in sea-clutter. , 2015, , .		3
41	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.	2.5	46
42	Analysis of millimeter-wave polarization diverse MIMO capacity. , 2014, , .		0
43	Analysis of polarization diversity at terahertz frequencies. , 2014, , .		0
44	Bi-orthogonal rational discrete wavelet transform with multiple regularity orders and application experiments. <i>Signal Processing</i> , 2013, 93, 3014-3026.	3.7	13
45	Automated Authorship Attribution Using Advanced Signal Classification Techniques. <i>PLoS ONE</i> , 2013, 8, e54998.	2.5	21
46	Low-cost ultra-thin broadband terahertz beam-splitter. <i>Optics Express</i> , 2012, 20, 4968.	3.4	25
47	Terahertz scattering by two phased media with optically soft scatterers. <i>Journal of Applied Physics</i> , 2012, 112, 113112.	2.5	8
48	Terahertz scattering by dense media. <i>Applied Physics Letters</i> , 2012, 100, 241110.	3.3	10
49	Is there a smarter way to use 100 billion transistors?. , 2012, , .		0
50	Terahertz scattering by granular composite materials: An effective medium theory. <i>Applied Physics Letters</i> , 2012, 100, .	3.3	37
51	Terahertz fingerprinting in presence of quasi-ballistic scattering. <i>Applied Physics Letters</i> , 2012, 101, 061108.	3.3	12
52	Design of Two-Band Critically Sampled Rational Rate Filter Banks With Multiple Regularity Orders and Associated Discrete Wavelet Transforms. <i>IEEE Transactions on Signal Processing</i> , 2012, 60, 3863-3868.	5.3	4
53	Reduction of Scattering Effects in THz-TDS Signals. <i>IEEE Photonics Technology Letters</i> , 2012, 24, 155-157.	2.5	17
54	Terahertz Imaging for Biomedical Applications. , 2012, , .		27

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55	Terahertz Sources and Detectors. , 2012, , 9-26.		11
56	THz Pattern Recognition Experiments. , 2012, , 133-177.		1
57	Terahertz Imaging Modes. , 2012, , 27-44.		1
58	Terahertz Computed Tomography. , 2012, , 179-189.		0
59	Introduction and Motivation to Terahertz Radiation. , 2012, , 1-7.		0
60	Wavelet-Based Terahertz Coherent Local Tomography. , 2012, , 201-220.		0
61	2D Wavelet Segmentation in 3D T-Ray CT. , 2012, , 191-199.		0
62	Wavelet Transforms. , 2012, , 73-94.		0
63	Feature Extraction and Selection. , 2012, , 95-118.		1
64	Terahertz Imaging Analysis. , 2012, , 45-63.		0
65	Local CT Using a THz QCL. , 2012, , 221-244.		0
66	Scattering estimation from spectral moments of THz-TDS signals. , 2011, , .		0
67	Scattering robust features for classification of materials usingl terahertz. , 2011, , .		0
68	Investigation of multiorientation and multiresolution features for microcalcifications classification in mammograms. , 2011, , .		4
69	Performance estimation of oversampled low bit depth, bio-inspired motion detection system. , 2010, , .		1
70	Mitigating scattering effects in THz-TDS measurements. , 2010, , .		5
71	A preliminary study of hydrogenation of oils using terahertz time domain spectroscopy. , 2010, , .		1
72	Local Computed Tomography Using a THz Quantum Cascade Laser. IEEE Sensors Journal, 2010, 10, 1718-1731.	4.7	11

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73	Using Sigma-Delta conversion for velocity estimation in bio-inspired detection system. , 2010, , .		0
74	Critically sampled discrete wavelet transforms with rational dilation factor of $3/2$. , 2010, , .		1
75	Terahertz spectroscopy of misfolded proteins in bio-tissue. , 2009, , .		4
76	Wavelet based local tomographic image using terahertz techniques. , 2009, 19, 750-763.		29
77	FPGA Implementation of a Predictive Vector Quantization Image Compression Algorithm for Image Sensor Applications. , 2008, , .		5
78	Orientation dependence of THz scattering from cylindrical strands. , 2008, , .		0
79	Subspace and wavelet-packet algorithms for de-noising and classifying broadband THz transients. , 2008, , .		0
80	APPLICATION OF AUTO REGRESSIVE MODELS OF WAVELET SUB-BANDS FOR CLASSIFYING TERAHERTZ PULSE MEASUREMENTS. Journal of Biological Systems, 2007, 15, 551-571.	1.4	26
81	Support Vector Machine Applications in Terahertz Pulsed Signals Feature Sets. IEEE Sensors Journal, 2007, 7, 1597-1608.	4.7	43
82	Terahertz local tomography. , 2007, , .		0
83	Using over-sampled single-bit representation for velocity estimation in vision systems. , 2007, , .		0
84	Classification of lactose and mandelic acid THz spectra using subspace and wavelet-packet algorithms. Proceedings of SPIE, 2007, , .	0.8	3
85	Wavelet transform and terahertz local tomography. Proceedings of SPIE, 2007, , .	0.8	1
86	T-Ray Sensing and Imaging. Proceedings of the IEEE, 2007, 95, 1528-1558.	21.3	154
87	2-D Wavelet Segmentation in 3-D T-Ray Tomography. IEEE Sensors Journal, 2007, 7, 342-343.	4.7	24
88	Distributive Target Tracking in Wireless Sensor Networks under Measurement Origin Uncertainty. , 2007, , .		6
89	Collaborative Data and Information Processing for Target Tracking In Wireless Sensor Networks. , 2006, , .		7
90	Distributive JPDAF for Multi-Target Tracking in Wireless Sensor Networks. , 2006, , .		2

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91	Feature extraction from terahertz pulses for classification of RNA data via support vector machines. , 2006, , .		2
92	Molecular and structural preservation of dehydrated bio-tissue for THz spectroscopy. , 2006, , .		2
93	One-dimensional wavelet transforms and their application to T-ray pulsed signal identification. , 2005, , .		2
94	Collaborative signal processing framework and algorithms for targets tracking in wireless sensor networks. , 2005, , .		4
95	Reduced memory zerotree coding algorithm for hardware implementation. , 0, , .		6