

John W Bowen

List of Publications by Year in descending order

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44
papers

959
citations

623188

14
h-index

454577

30
g-index

46
all docs

46
docs citations

46
times ranked

666
citing authors

#	ARTICLE	IF	CITATIONS
1	A Survey of Terahertz Applications in Cultural Heritage Conservation Science. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 220-231.	2.0	181
2	Measurements of leaf water content using terahertz radiation. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 142-149.	2.9	131
3	Fabrication and characterization of micromachined rectangular waveguide components for use at millimeter-wave and terahertz frequencies. IEEE Transactions on Microwave Theory and Techniques, 2000, 48, 1293-1302.	2.9	86
4	Long-wave optics. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1676-1690.	2.9	76
5	Analysis of spectroscopic measurements of leaf water content at terahertz frequencies using linear transforms. Journal of the Optical Society of America A: Optics and Image Science, and Vision, 2002, 19, 2495.	0.8	62
6	Terahertz frequency-wavelet domain deconvolution for stratigraphic and subsurface investigation of art painting. Optics Express, 2016, 24, 26972.	1.7	62
7	Terahertz deconvolution. Optics Express, 2012, 20, 27230.	1.7	57
8	Sub-surface terahertz imaging through uneven surfaces: visualizing Neolithic wall paintings in AñatalhAñyAñk. Optics Express, 2013, 21, 8126.	1.7	34
9	Optimal discrimination and classification of THz spectra in the wavelet domain. Optics Express, 2003, 11, 1462.	1.7	29
10	Terahertz pulse imaging in archaeology. Frontiers of Optoelectronics, 2015, 8, 81-92.	1.9	26
11	Micromachined waveguide antennas for 1.6â€...THz. Electronics Letters, 2006, 42, 842.	0.5	23
12	Subspace system identification framework for the analysis of multimoded propagation of THz-transient signals. Measurement Science and Technology, 2005, 16, 1037-1053.	1.4	22
13	Optimization of apodization functions in terahertz transient spectrometry. Optics Letters, 2007, 32, 3008.	1.7	21
14	Comparison of Subspace and ARX Models of a Waveguide's Terahertz Transient Response After Optimal Wavelet Filtering. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2409-2419.	2.9	18
15	Multivariate analysis of the dielectric response of materials modeled using networks of resistors and capacitors. IEEE Transactions on Dielectrics and Electrical Insulation, 2013, 20, 995-1008.	1.8	14
16	Frequency selective surfaces for millimetre and submillimetre wave quasi optical demultiplexing. Journal of Infrared, Millimeter and Terahertz Waves, 1993, 14, 1769-1788.	0.6	13
17	Measurement of propagation constant in waveguides with wideband coherent terahertz spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 391.	0.9	13
18	Wiener-System Subspace Identification for Mobile Wireless mm-Wave Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 1935-1948.	3.9	13

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19	Terahertz characterisation of UV offset lithographically printed electronic-ink. <i>Organic Electronics</i> , 2017, 48, 382-388.	1.4	9
20	Terahertz analysis of stratified wall plaster at buildings of cultural importance across Europe. , 2013, , .		8
21	MIMO Wiener Model Identification for Large Scale Fading of Wireless Mobile Communications Links. <i>IEEE Communications Letters</i> , 2007, 11, 513-515.	2.5	7
22	Time-domain imaging system in the terahertz range for immovable cultural heritage materials. <i>Strain</i> , 2019, 55, e12292.	1.4	7
23	Towards super-resolved terahertz microscopy for cellular imaging. <i>Journal of Microscopy</i> , 0, , .	0.8	7
24	Terahertz pulse imaging of stratified architectural materials for cultural heritage studies. <i>Proceedings of SPIE</i> , 2011, , .	0.8	6
25	Cyclododecane as a Contrast Improving Substance for the Terahertz Imaging of Artworks. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015, 5, 1005-1011.	2.0	6
26	Deconvolution: Imaging the unturned page. , 2011, , .		4
27	Astigmatism in tapered slot antennas. <i>Journal of Infrared, Millimeter and Terahertz Waves</i> , 1995, 16, 1733-1756.	0.6	3
28	Classification of lactose and mandelic acid THz spectra using subspace and wavelet-packet algorithms. <i>Proceedings of SPIE</i> , 2007, , .	0.8	3
29	A simple fluid cell for the study of aqueous solutions using THz time-domain spectroscopy. <i>Measurement Science and Technology</i> , 2011, 22, 037003.	1.4	3
30	Femtosecond pulse shaping using differential evolutionary algorithm and wavelet operators. <i>Electronics Letters</i> , 2012, 48, 1357.	0.5	3
31	One-Port De-Embedding Technique for the Quasi-Optical Characterization of Integrated Components. <i>IEEE Sensors Journal</i> , 2013, 13, 111-123.	2.4	3
32	Apodisation, denoising and system identification techniques for THz transients in the wavelet domain. , 2007, , .		2
33	Terahertz and multispectral imaging of a Tanda painting. <i>Proceedings of SPIE</i> , 2015, , .	0.8	2
34	Quantification of boundary definition using pulsed terahertz radiation for wedged geometries. , 2007, , .		1
35	Sample-induced beam distortions in terahertz time domain spectroscopy and imaging systems. , 2007, , .		1
36	Interferometric Technique for Measuring Terahertz Antenna Phase Patterns. <i>IEEE Sensors Journal</i> , 2013, 13, 100-110.	2.4	1

#	ARTICLE	IF	CITATIONS
37	Terahertz pulse investigation of Paleolithic wall etchings. , 2014, , .		1
38	A Review on the Rule-Based Filtering Structure with Applications on Computational Biomedical Images. Journal of Healthcare Engineering, 2022, 2022, 1-17.	1.1	1
39	Towards a THz osmometer. , 2007, , .		0
40	Subspace and wavelet-packet algorithms for de-noising and classifying broadband THz transients. , 2008, , .		0
41	Cyclododecane as a reversible contrast enhancer for the terahertz imaging of frescos. , 2015, , .		0
42	Comparative study of mid-20 th C. Art using THz and X-ray imaging. , 2016, , .		0
43	Nanostructures in the Terahertz Range. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 359-372.	0.2	0
44	Chapter 7 Terahertz Nanoscale Science and Technology. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 133-148.	0.2	0