

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 Review on the Rule-Based Filtering Structure with Applications on Computational Biomedical Images. Journal of Healthcare Engineering, 2022, 2022, 1-17.	1.1	1
2	Time-domain imaging system in the terahertz range for immovable cultural heritage materials. Strain, 2019, 55, e12292.	1.4	7
3	Chapter 7 Terahertz Nanoscale Science and Technology. NATO Science for Peace and Security Series B: Physics and Biophysics, 2018, , 133-148.	0.2	0
4	Terahertz characterisation of UV offset lithographically printed electronic-ink. Organic Electronics, 2017, 48, 382-388.	1.4	9
5	Terahertz frequency-wavelet domain deconvolution for stratigraphic and subsurface investigation of art painting. Optics Express, 2016, 24, 26972.	1.7	62
6	Comparative study of mid-20 th C. Art using THz and X-ray imaging. , 2016, , .		0
7	Cyclododecane as a Contrast Improving Substance for the Terahertz Imaging of Artworks. IEEE Transactions on Terahertz Science and Technology, 2015, 5, 1005-1011.	2.0	6
8	Cyclododecane as a reversible contrast enhancer for the terahertz imaging of frescos. , 2015, , .		0
9	Terahertz pulse imaging in archaeology. Frontiers of Optoelectronics, 2015, 8, 81-92.	1.9	26
10	Terahertz and multispectral imaging of a Tando painting. Proceedings of SPIE, 2015, , .	0.8	2
11	Nanostructures in the Terahertz Range. NATO Science for Peace and Security Series B: Physics and Biophysics, 2015, , 359-372.	0.2	0
12	Terahertz pulse investigation of Paleolithic wall etchings. , 2014, , .		1
13	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
14	Terahertz analysis of stratified wall plaster at buildings of cultural importance across Europe. , 2013, , .		8
15	Interferometric Technique for Measuring Terahertz Antenna Phase Patterns. IEEE Sensors Journal, 2013, 13, 100-110.	2.4	1
16	Sub-surface terahertz imaging through uneven surfaces: visualizing Neolithic wall paintings in AñatalhÁyÁk. Optics Express, 2013, 21, 8126.	1.7	34
17	One-Port De-Embedding Technique for the Quasi-Optical Characterization of Integrated Components. IEEE Sensors Journal, 2013, 13, 111-123.	2.4	3
18	Femtosecond pulse shaping using differential evolutionary algorithm and wavelet operators. Electronics Letters, 2012, 48, 1357.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Terahertz deconvolution. Optics Express, 2012, 20, 27230.	1.7	57
20	Deconvolution: Imaging the unturned page. , 2011, , .		4
21	Terahertz pulse imaging of stratified architectural materials for cultural heritage studies. Proceedings of SPIE, 2011, , .	0.8	6
22	A Survey of Terahertz Applications in Cultural Heritage Conservation Science. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 220-231.	2.0	181
23	A simple fluid cell for the study of aqueous solutions using THz time-domain spectroscopy. Measurement Science and Technology, 2011, 22, 037003.	1.4	3
24	Subspace and wavelet-packet algorithms for de-noising and classifying broadband THz transients. , 2008, , .		0
25	Towards a THz osmometer. , 2007, , .		0
26	Quantification of boundary definition using pulsed terahertz radiation for wedged geometries. , 2007, , .		1
27	Classification of lactose and mandelic acid THz spectra using subspace and wavelet-packet algorithms. Proceedings of SPIE, 2007, , .	0.8	3
28	Sample-induced beam distortions in terahertz time domain spectroscopy and imaging systems. , 2007, , .		1
29	Apodisation, denoising and system identification techniques for THz transients in the wavelet domain. , 2007, , .		2
30	Optimization of apodization functions in terahertz transient spectrometry. Optics Letters, 2007, 32, 3008.	1.7	21
31	MIMO Wiener Model Identification for Large Scale Fading of Wireless Mobile Communications Links. IEEE Communications Letters, 2007, 11, 513-515.	2.5	7
32	Wiener-System Subspace Identification for Mobile Wireless mm-Wave Networks. IEEE Transactions on Vehicular Technology, 2007, 56, 1935-1948.	3.9	13
33	Micromachined waveguide antennas for 1.6â€¦THz. Electronics Letters, 2006, 42, 842.	0.5	23
34	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
35	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
36	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

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37	Optimal discrimination and classification of THz spectra in the wavelet domain. Optics Express, 2003, 11, 1462.	1.7	29
38	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
39	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
40	Measurements of leaf water content using terahertz radiation. IEEE Transactions on Microwave Theory and Techniques, 1999, 47, 142-149.	2.9	131
41	Astigmatism in tapered slot antennas. Journal of Infrared, Millimeter and Terahertz Waves, 1995, 16, 1733-1756.	0.6	3
42	Long-wave optics. IEEE Transactions on Microwave Theory and Techniques, 1993, 41, 1676-1690.	2.9	76
43	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
44	Towards super-resolution terahertz microscopy for cellular imaging. Journal of Microscopy, 0, , .	0.8	7