

Vincent P Wallace

List of Publications by Citations

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98
papers

6,226
citations

37
h-index

78
g-index

117
ext. papers

7,582
ext. citations

3.9
avg, IF

5.45
L-index

#	Paper	IF	Citations
98	The 2017 terahertz science and technology roadmap. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 043001	3.8	724
97	Biomedical applications of terahertz technology. <i>Journal Physics D: Applied Physics</i> , 2006 , 39, R301-R310	3.8	509
96	Terahertz pulse imaging in reflection geometry of human skin cancer and skin tissue. <i>Physics in Medicine and Biology</i> , 2002 , 47, 3853-63	3.8	460
95	Terahertz pulsed spectroscopy of freshly excised human breast cancer. <i>Optics Express</i> , 2009 , 17, 12444-54	3.8	414
94	In vivo study of human skin using pulsed terahertz radiation. <i>Physics in Medicine and Biology</i> , 2004 , 49, 1595-607	3.8	344
93	Terahertz pulsed imaging of human breast tumors. <i>Radiology</i> , 2006 , 239, 533-40	20.5	283
92	Terahertz pulse imaging of ex vivo basal cell carcinoma. <i>Journal of Investigative Dermatology</i> , 2003 , 120, 72-8	4.3	282
91	Terahertz pulsed spectroscopy of human Basal cell carcinoma. <i>Applied Spectroscopy</i> , 2006 , 60, 1127-33	3.1	251
90	Terahertz pulsed imaging of basal cell carcinoma ex vivo and in vivo. <i>British Journal of Dermatology</i> , 2004 , 151, 424-32	4	225
89	Terahertz pulsed imaging of freshly excised human colonic tissues. <i>Physics in Medicine and Biology</i> , 2011 , 56, 4333-53	3.8	200
88	Terahertz pulsed imaging of skin cancer in the time and frequency domain. <i>Journal of Biological Physics</i> , 2003 , 29, 257-9	1.6	199
87	Optimizing multi-dimensional terahertz imaging analysis for colon cancer diagnosis. <i>Expert Systems With Applications</i> , 2013 , 40, 2043-2050	7.8	143
86	Simulation of terahertz pulse propagation in biological systems. <i>Applied Physics Letters</i> , 2004 , 84, 2190-2192	3.92	141
85	Influence of optical properties on two-photon fluorescence imaging in turbid samples. <i>Applied Optics</i> , 2000 , 39, 1194-201	1.7	140
84	Terahertz pulsed imaging and spectroscopy for biomedical and pharmaceutical applications. <i>Faraday Discussions</i> , 2004 , 126, 255-63; discussion 303-11	3.6	120
83	Three-dimensional terahertz pulse imaging of dental tissue. <i>Journal of Biomedical Optics</i> , 2003 , 8, 303-7	3.5	117
82	Terahertz biophotonics as a tool for studies of dielectric and spectral properties of biological tissues and liquids. <i>Progress in Quantum Electronics</i> , 2018 , 62, 1-77	9.1	113

81	Spectrophotometric assessment of pigmented skin lesions: methods and feature selection for evaluation of diagnostic performance. <i>Physics in Medicine and Biology</i> , 2000 , 45, 735-51	3.8	85
80	Simulating the response of terahertz radiation to basal cell carcinoma using ex vivo spectroscopy measurements. <i>Journal of Biomedical Optics</i> , 2005 , 10, 064021	3.5	83
79	Improved sample characterization in terahertz reflection imaging and spectroscopy. <i>Optics Express</i> , 2009 , 17, 3848-54	3.3	72
78	Three-dimensional imaging of optically opaque materials using nonionizing terahertz radiation. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , 2008 , 25, 3120-33	1.8	70
77	Classification of terahertz-pulsed imaging data from excised breast tissue. <i>Journal of Biomedical Optics</i> , 2012 , 17, 016005	3.5	68
76	Accuracy and resolution of THz reflection spectroscopy for medical imaging. <i>Physics in Medicine and Biology</i> , 2010 , 55, 4825-38	3.8	64
75	Terahertz pulse imaging: a pilot study of potential applications in dentistry. <i>Caries Research</i> , 2003 , 37, 352-9	4.2	63
74	Two-photon laser scanning microscopy of epithelial cell-modulated collagen density in engineered human lung tissue. <i>Tissue Engineering</i> , 2001 , 7, 191-202		58
73	Photodynamic therapy of human glioma spheroids using 5-aminolevulinic acid. <i>Photochemistry and Photobiology</i> , 2000 , 72, 128-34	3.6	57
72	The interaction between electromagnetic fields at megahertz, gigahertz and terahertz frequencies with cells, tissues and organisms: risks and potential. <i>Journal of the Royal Society Interface</i> , 2017 , 14,	4.1	55
71	Ultrathin tunable terahertz absorber based on MEMS-driven metamaterial. <i>Microsystems and Nanoengineering</i> , 2017 , 3, 17033	7.7	51
70	A comparison of terahertz pulsed imaging with transmission microradiography for depth measurement of enamel demineralisation in vitro. <i>Caries Research</i> , 2007 , 41, 49-55	4.2	51
69	Terahertz pulsed imaging with 1.06 μ m laser excitation. <i>Applied Physics Letters</i> , 2003 , 83, 4113-4115	3.4	51
68	Use of a handheld terahertz pulsed imaging device to differentiate benign and malignant breast tissue. <i>Biomedical Optics Express</i> , 2017 , 8, 2932-2945	3.5	48
67	Terahertz pulsed imaging--a potential medical imaging modality?. <i>Photodiagnosis and Photodynamic Therapy</i> , 2009 , 6, 128-34	3.5	47
66	Non-Contact, Non-Destructive Testing in Various Industrial Sectors with Terahertz Technology. <i>Sensors</i> , 2020 , 20,	3.8	46
65	Terahertz time-domain spectroscopy of human blood. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2013 , 17, 774-8	7.2	43
64	A dielectric model of human breast tissue in terahertz regime. <i>IEEE Transactions on Biomedical Engineering</i> , 2015 , 62, 699-707	5	42

63	Terahertz pulsed imaging in vivo: measurements and processing methods. <i>Journal of Biomedical Optics</i> , 2011 , 16, 106010	3.5	37
62	Classification of reflectance spectra from pigmented skin lesions, a comparison of multivariate discriminant analysis and artificial neural networks. <i>Physics in Medicine and Biology</i> , 2000 , 45, 2859-71	3.8	37
61	Terahertz imaging and spectroscopy of human skin in vivo 2001 ,		37
60	In vivo terahertz reflection imaging of human scars during and after the healing process. <i>Journal of Biophotonics</i> , 2017 , 10, 1143-1151	3.1	35
59	Use of finite difference time domain simulations and Debye theory for modelling the terahertz reflection response of normal and tumour breast tissue. <i>PLoS ONE</i> , 2014 , 9, e99291	3.7	35
58	Gene inactivation by multiphoton-targeted photochemistry. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2000 , 97, 9504-7	11.5	29
57	Terahertz pulsed imaging of knee cartilage. <i>Biomedical Optics Express</i> , 2010 , 1, 967-974	3.5	22
56	Two-photon excitation laser scanning microscopy of human, porcine, and rabbit nasal septal cartilage. <i>Tissue Engineering</i> , 2001 , 7, 599-606		21
55	Concentration analysis of breast tissue phantoms with terahertz spectroscopy. <i>Biomedical Optics Express</i> , 2018 , 9, 1334-1349	3.5	19
54	Terahertz Time-Domain Spectroscopy of Human Blood. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 363-367	3.4	19
53	The Potential of the Double Debye Parameters to Discriminate Between Basal Cell Carcinoma and Normal Skin. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2015 , 5, 990-998	3.4	19
52	Deciphering Cell-to-Cell Communication in Acquisition of Cancer Traits: Extracellular Membrane Vesicles Are Regulators of Tissue Biomechanics. <i>OMICS A Journal of Integrative Biology</i> , 2016 , 20, 462-9	3.8	15
51	An intra-operative THz probe for use during the surgical removal of breast tumors 2008 ,		14
50	Chondrocyte repopulation of allograft cartilage: a preliminary investigation and strategy for developing cartilage matrices for reconstruction. <i>Otolaryngology - Head and Neck Surgery</i> , 2002 , 127, 265-70	5.5	13
49	An assessment of multimodal imaging of subsurface text in mummy cartonnage using surrogate papyrus phantoms. <i>Heritage Science</i> , 2018 , 6,	2.5	12
48	Terahertz pulse imaging in reflection geometry of skin tissue using time-domain analysis techniques 2002 , 4625, 160		12
47	Correlation between saturated fatty acid chain-length and intermolecular forces determined with terahertz spectroscopy. <i>Chemical Communications</i> , 2019 , 55, 3670-3673	5.8	10
46	Modulation of the Hydration Water Around Monoclonal Antibodies on Addition of Excipients Detected by Terahertz Time-Domain Spectroscopy. <i>Journal of Pharmaceutical Sciences</i> , 2015 , 104, 4025-4033	2.9	10

45	Enhanced skin permeation and hydration by magnetic field array: preliminary in-vitro and in-vivo assessment. <i>Journal of Pharmacy and Pharmacology</i> , 2010 , 62, 696-701	4.8	8
44	Use of Terahertz Waves To Monitor Moisture Content in High-Pressure Natural Gas Pipelines. <i>Energy & Fuels</i> , 2019 , 33, 8026-8031	4.1	7
43	Two-Photon Microscopy in Highly Scattering Tissue 2001 , 180-199		7
42	Convergence of terahertz radiation and nanotechnology. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10942-10955	4.1	5
41	High correlation of double Debye model parameters in skin cancer detection. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , 2014 , 2014, 718-21	0.9	5
40	Using Terahertz Pulsed Imaging to Measure Enamel Demineralisation in Teeth 2006 ,		5
39	Extraction of thickness and water content gradients in hydrogel-based, water-backed corneal phantoms via submillimeter wave reflectometry. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 1-1	3.4	5
38	. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2021 , 11, 538-547	3.4	5
37	Terahertz waveguide prism. <i>Optics Express</i> , 2013 , 21, 19292-301	3.3	4
36	Application of Finite Difference Time Domain methods to Terahertz Spectroscopy Measurements of Breast Cancer. <i>IEEE MTT-S International Microwave Symposium Digest IEEE MTT-S International Microwave Symposium</i> , 2007 ,		4
35	Terahertz-pulsed imaging of cancers 2003 ,		4
34	Millimeter Wave Radiation Activates Leech Nociceptors via TRPV1-Like Receptor Sensitization. <i>Biophysical Journal</i> , 2019 , 116, 2331-2345	2.9	3
33	Prediction of the terahertz absorption features with a straightforward molecular dynamics method. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2020 , 236, 118330	4.4	3
32	The future of medical imaging 2010 ,		3
31	Using terahertz pulsed imaging (TPI) to identify colonic pathology. 2008 ,		3
30	Photodynamic Therapy of Human Glioma Spheroids Using 5-Aminolevulinic Acid. <i>Photochemistry and Photobiology</i> , 2007 , 72, 128-134	3.6	3
29	The application of effective medium theory in tissue phantoms 2017 ,		2
28	Terahertz imaging detects cancerous tissue. <i>SPIE Newsroom</i> , 2008 ,		2

27	An oil and water emulsion phantom for biomedical terahertz spectroscopy 2007 ,		2
26	Terahertz spectroscopy of breast tumors 2007 ,		2
25	Medical applications of broadband terahertz pulsed radiation 2005 ,		2
24	Terahertz pulsed imaging and spectroscopy of breast tumors 2006 , 6386, 178		2
23	Potential uses of terahertz pulse imaging in dentistry: caries and erosion detection 2002 ,		2
22	Two-photon excited imaging of photosensitizers in tissues 1999 ,		2
21	Alterations in neuronal action potential shape and spiking rate caused by pulsed 60 GHz millimeter wave radiation 2016 ,		2
20	Breast Cancer classification using extracted parameters from a terahertz dielectric model of human breast tissue. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference, 2015</i> , 2804-7	0.9	1
19	Breast cancer tissue diagnosis at terahertz frequencies 2012 ,		1
18	Nondestructive determination of defects in firmly joint plastic compounds with portable THz system 2013 ,		1
17	Improved sample characterization in terahertz reflection imaging and spectroscopy: erratum. <i>Optics Express</i> , 2011 , 19, 24782	3.3	1
16	Application of terahertz imaging to osteoarthritis 2008 ,		1
15	Terahertz pulsed imaging and spectroscopy of breast tumours 2006 ,		1
14	Terahertz Spectroscopy of Biologically Relevant Liquids at Low Temperatures 2006 ,		1
13	Development of a hand-held TPI system for medical applications 2005 ,		1
12	Monitoring pigmented skin lesions 2002 ,		1
11	Three-dimensional terahertz pulse imaging of dental tissue 2002 ,		1
10	Two-photon excitation laser scanning microscopy of rabbit nasal septal cartilage following Nd:YAG-laser-mediated stress relaxation 2000 ,		1

- 9 Layered Monte Carlo model for the description of diffuse reflectance spectra from pigmented skin lesions **1999**, 1
- 8 Terahertz Radiation Stimulates Neurite Growth in PC12 Derived Neurons During Development Phase: Preliminary Study **2020**, 1
- 7 Preliminary study of different scar types with terahertz imaging **2016**, 1
- 6 Terahertz characterization of an asphaltene sample and its polarity-based sub-fractions **2016**, 1
- 5 Tissue classification using terahertz pulsed imaging **2004**, 5318, 23 0
- 4 Reproducibility of Terahertz Peaks in a Frozen Aqueous Solution of 5-Methylcytidine. *Journal of Infrared, Millimeter, and Terahertz Waves*, **2021**, 42, 588-606 2.2 0
- 3 Two-photon excitation laser scanning microscopy of porcine nasal septal cartilage following Nd:YAG laser-mediated stress relaxation **2000**, 3907, 380
- 2 Macrophage Targeted Photodynamic Regulation of Wound Healing. *Microscopy and Microanalysis*, **1998**, 4, 1090-1091 0.5
- 1 Spatial point spread function with depth in two-photon microscopy **1999**, 3605, 112