

Jean-Paul Guillet

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58
papers

876
citations

13
h-index

28
g-index

99
ext. papers

1,220
ext. citations

2.3
avg, IF

3.99
L-index

#	Paper	IF	Citations
58	Tunable ultrafast infrared generation in a gas-filled hollow-core capillary by a four-wave mixing process. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022 , 39, 662	1.7	0
57	Scanning point terahertz source microscopy of unstained comedo ductal carcinoma in situ 2022 , 1, 527		
56	Single-scan multiplane phase retrieval with a radiation of terahertz quantum cascade laser. <i>Applied Physics B: Lasers and Optics</i> , 2022 , 128, 1	1.9	2
55	Terahertz refractive index-based morphological dilation for breast carcinoma delineation. <i>Scientific Reports</i> , 2021 , 11, 6457	4.9	9
54	TeraPulse Lx for terahertz imaging of painting on canvas. <i>Journal of Physics: Conference Series</i> , 2021 , 1866, 012004	0.3	
53	Label-Free Observation of Micrometric Inhomogeneity of Human Breast Cancer Cell Density Using Terahertz Near-Field Microscopy. <i>Photonics</i> , 2021 , 8, 151	2.2	4
52	Terahertz waves for contactless control and imaging in aeronautics industry. <i>NDT and E International</i> , 2021 , 122, 102473	4.1	2
51	Guided Reflectometry Imaging Unit Using Millimeter Wave FMCW Radars. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2020 , 10, 647-655	3.4	1
50	Guided terahertz pulse reflectometry with double photoconductive antenna. <i>Applied Optics</i> , 2020 , 59, 1641-1647	1.7	2
49	Terahertz phase retrieval imaging in reflection. <i>Optics Letters</i> , 2020 , 45, 4168-4171	3	10
48	Terahertz near-field microscopy of ductal carcinoma in situ (DCIS) of the breast. <i>JPhys Photonics</i> , 2020 , 2, 044008	2.5	9
47	Fast Terahertz Spectroscopic Holographic Assessment of Optical Properties of Diabetic Blood Plasma. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1041-1056	2.2	6
46	A Versatile Illumination System for Real-Time Terahertz Imaging. <i>Sensors</i> , 2020 , 20,	3.8	3
45	Characterization of Varnish Ageing and its Consequences on Terahertz Imagery: Demonstration on a Painting Presumed of the French Renaissance. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2020 , 41, 1556-1566	2.2	2
44	Iterative Tree Algorithm to Evaluate Terahertz Signal Contribution of Specific Optical Paths Within Multilayered Materials. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019 , 9, 684-694	3.4	8
43	Terahertz Spectroscopy and Quantum Mechanical Simulations of Crystalline Copper-Containing Historical Pigments. <i>Journal of Physical Chemistry A</i> , 2019 , 123, 1225-1232	2.8	9
42	Multimodal Optical Diagnostics of Glycated Biological Tissues. <i>Biochemistry (Moscow)</i> , 2019 , 84, S124-S143	3.3	9

41	Ex Vivo Breast Tumor Identification: Advances Toward a Silicon-Based Terahertz Near-Field Imaging Sensor. <i>IEEE Microwave Magazine</i> , 2019 , 20, 32-46	1.2	9
40	Scanning laser terahertz near-field reflection imaging system. <i>Applied Physics Express</i> , 2019 , 12, 122005	2.4	8
39	Terahertz spectra of drug-laden magnetic nanoparticles 2019 ,		1
38	Terahertz pulse time-domain holography method for phase imaging of breast tissue 2019 ,		2
37	The terahertz pulse time-domain holography method for phase imaging of breast tissue sample 2019 ,		2
36	Shape-from-focus for real-time terahertz 3D imaging. <i>Optics Letters</i> , 2019 , 44, 483-486	3	17
35	NearSense [Advances Towards a Silicon-Based Terahertz Near-Field Imaging Sensor for Ex Vivo Breast Tumour Identification. <i>Frequenz</i> , 2018 , 72, 93-99	0.6	4
34	Pilot study of freshly excised breast tissue response in the 300-600 GHz range. <i>Biomedical Optics Express</i> , 2018 , 9, 2930-2942	3.5	32
33	Terahertz frequency modulated continuous wave imaging advanced data processing for art painting analysis. <i>Optics Express</i> , 2018 , 26, 5358-5367	3.3	27
32	A Solid-State 0.56 THz Near-Field Array for M-Scale Surface Imaging 2018 ,		2
31	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
30	Interaction of terahertz radiation with tissue phantoms: numerical and experimental studies. <i>EPJ Web of Conferences</i> , 2018 , 195, 10012	0.3	
29	Art Painting Diagnostic Before Restoration with Terahertz and Millimeter Waves. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017 , 38, 369-379	2.2	23
28	Study of blood plasma optical properties in mice grafted with Ehrlich carcinoma in the frequency range 0.1-0.1 THz. <i>Quantum Electronics</i> , 2017 , 47, 1031-1040	1.8	11
27	HOBIT 2017 ,		7
26	THz spectroscopy and imaging for breast cancer detection in the 300-600 GHz range 2017 ,		3
25	Advanced Processing Sequence for 3-D THz Imaging. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016 , 6, 191-198	3.4	26
24	Liquid index matching for 2D and 3D terahertz imaging. <i>Applied Optics</i> , 2016 , 55, 9185-9192	0.2	2

23	Automated data and image processing for biomedical sample analysis 2016 ,		1
22	Frequency modulated continuous wave terahertz imaging for art restoration 2016 ,		2
21	Terahertz imaging and tomography as efficient instruments for testing polymer additive manufacturing objects. <i>Applied Optics</i> , 2016 , 55, 3462-7	0.2	32
20	Room temperature Si ₃ N ₄ thermopile THz sensor. <i>Microsystem Technologies</i> , 2015 , 21, 1627-1631	1.7	3
19	Low-frequency noise effect on terahertz tomography using thermal detectors. <i>Applied Optics</i> , 2015 , 54, 6758-62	0.2	12
18	AMI: Augmented Michelson Interferometer 2015 ,		2
17	Discrimination and identification of RDX/PETN explosives by chemometrics applied to terahertz time-domain spectral imaging 2015 ,		3
16	Review of Terahertz Tomography Techniques. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014 , 35, 382-411	2.2	142
15	A comprehensive study of the application of the EOP techniques on bipolar devices. <i>Microelectronics Reliability</i> , 2014 , 54, 2088-2092	1.2	2
14	Ordered subsets convex algorithm for 3D terahertz transmission tomography. <i>Optics Express</i> , 2014 , 22, 23299-309	3.3	14
13	Processing sequence for non-destructive inspection based on 3D terahertz images 2014 ,		1
12	Room temperature thermopile THz sensor. <i>Sensors and Actuators A: Physical</i> , 2013 , 193, 155-160	3.9	11
11	Structural health monitoring using a scanning THz system 2013 ,		1
10	Ultra-flexible multiband terahertz metamaterial absorber for conformal geometry applications. <i>Optics Letters</i> , 2013 , 38, 4988-90	3	105
9	Aeronautics composite material inspection with a terahertz time-domain spectroscopy system. <i>Optical Engineering</i> , 2013 , 53, 031208	1.1	71
8	X-ray versus 3D terahertz imaging for sigillography science 2013 ,		2
7	Coupling and Propagation of Sommerfeld Waves at 100 and 300 GHz. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2012 , 33, 174-182	2.2	7
6	Terahertz radiation for tomographic inspection. <i>Optical Engineering</i> , 2012 , 51, 091609	1.1	6

5	Propagation beam consideration for 3D THz computed tomography. <i>Optics Express</i> , 2012 , 20, 5817-29	3-3	41
4	Continuous-wave scanning terahertz near-field microscope. <i>Microwave and Optical Technology Letters</i> , 2011 , 53, 580-582	1-2	11
3	Near-field wire-based passive probe antenna for the selective detection of the longitudinal electric field at terahertz frequencies. <i>Journal of Applied Physics</i> , 2009 , 106, 073107	2-5	12
2	Theoretical and experimental studies of metallic grids absorption: Application to the design of a bolometer. <i>Procedia Chemistry</i> , 2009 , 1, 1135-1138		2
1	Linear to radial polarization conversion in the THz domain using a passive system. <i>Optics Express</i> , 2008 , 16, 18895-909	3-3	24