

Jean-Paul Guillet

List of Publications by Year in descending order

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Version: 2024-02-01

98
papers

1,423
citations

430442

18
h-index

344852

36
g-index

99
all docs

99
docs citations

99
times ranked

1178
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | 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. | 3.5 | 204 |
| 2 | Review of Terahertz Tomography Techniques. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 382-411. | 1.2 | 201 |
| 3 | Ultra-flexible multiband terahertz metamaterial absorber for conformal geometry applications. <i>Optics Letters</i> , 2013, 38, 4988. | 1.7 | 122 |
| 4 | Aeronautics composite material inspection with a terahertz time-domain spectroscopy system. <i>Optical Engineering</i> , 2013, 53, 031208. | 0.5 | 101 |
| 5 | Propagation beam consideration for 3D THz computed tomography. <i>Optics Express</i> , 2012, 20, 5817. | 1.7 | 68 |
| 6 | Pilot study of freshly excised breast tissue response in the 300 – 600 GHz range. <i>Biomedical Optics Express</i> , 2018, 9, 2930. | 1.5 | 48 |
| 7 | Terahertz imaging and tomography as efficient instruments for testing polymer additive manufacturing objects. <i>Applied Optics</i> , 2016, 55, 3462. | 2.1 | 47 |
| 8 | Terahertz frequency modulated continuous wave imaging advanced data processing for art painting analysis. <i>Optics Express</i> , 2018, 26, 5358. | 1.7 | 46 |
| 9 | Advanced Processing Sequence for 3-D THz Imaging. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2016, 6, 191-198. | 2.0 | 40 |
| 10 | Art Painting Diagnostic Before Restoration with Terahertz and Millimeter Waves. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 369-379. | 1.2 | 38 |
| 11 | Shape-from-focus for real-time terahertz 3D imaging. <i>Optics Letters</i> , 2019, 44, 483. | 1.7 | 30 |
| 12 | Linear to radial polarization conversion in the THz domain using a passive system. <i>Optics Express</i> , 2008, 16, 18895. | 1.7 | 29 |
| 13 | Ordered subsets convex algorithm for 3D terahertz transmission tomography. <i>Optics Express</i> , 2014, 22, 23299. | 1.7 | 26 |
| 14 | Terahertz near-field microscopy of ductal carcinoma in situ (DCIS) of the breast. <i>JPhys Photonics</i> , 2020, 2, 044008. | 2.2 | 23 |
| 15 | Scanning laser terahertz near-field reflection imaging system. <i>Applied Physics Express</i> , 2019, 12, 122005. | 1.1 | 21 |
| 16 | Terahertz Spectroscopy and Quantum Mechanical Simulations of Crystalline Copper-Containing Historical Pigments. <i>Journal of Physical Chemistry A</i> , 2019, 123, 1225-1232. | 1.1 | 21 |
| 17 | Terahertz phase retrieval imaging in reflection. <i>Optics Letters</i> , 2020, 45, 4168. | 1.7 | 19 |
| 18 | Ex Vivo Breast Tumor Identification: Advances Toward a Silicon-Based Terahertz Near-Field Imaging Sensor. <i>IEEE Microwave Magazine</i> , 2019, 20, 32-46. | 0.7 | 18 |

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|----|--|-----|-----------|
| 19 | Terahertz refractive index-based morphological dilation for breast carcinoma delineation. Scientific Reports, 2021, 11, 6457. | 1.6 | 18 |
| 20 | Study of blood plasma optical properties in mice grafted with Ehrlich carcinoma in the frequency range 0.1–1.0 THz. Quantum Electronics, 2017, 47, 1031-1040. | 0.3 | 17 |
| 21 | Multimodal Optical Diagnostics of Glycated Biological Tissues. Biochemistry (Moscow), 2019, 84, 124-143. | 0.7 | 16 |
| 22 | Near-field wire-based passive probe antenna for the selective detection of the longitudinal electric field at terahertz frequencies. Journal of Applied Physics, 2009, 106, 073107. | 1.1 | 15 |
| 23 | Room temperature thermopile THz sensor. Sensors and Actuators A: Physical, 2013, 193, 155-160. | 2.0 | 14 |
| 24 | HOBIT. , 2017, , . | | 14 |
| 25 | Continuous-wave scanning terahertz near-field microscope. Microwave and Optical Technology Letters, 2011, 53, 580-582. | 0.9 | 13 |
| 26 | Terahertz radiation for tomographic inspection. Optical Engineering, 2012, 51, 091609. | 0.5 | 13 |
| 27 | Terahertz waves for contactless control and imaging in aeronautics industry. NDT and E International, 2021, 122, 102473. | 1.7 | 13 |
| 28 | Low-frequency noise effect on terahertz tomography using thermal detectors. Applied Optics, 2015, 54, 6758. | 2.1 | 12 |
| 29 | Label-Free Observation of Micrometric Inhomogeneity of Human Breast Cancer Cell Density Using Terahertz Near-Field Microscopy. Photonics, 2021, 8, 151. | 0.9 | 12 |
| 30 | Coupling and Propagation of Sommerfeld Waves at 100 and 300 GHz. Journal of Infrared, Millimeter, and Terahertz Waves, 2012, 33, 174-182. | 1.2 | 11 |
| 31 | Iterative Tree Algorithm to Evaluate Terahertz Signal Contribution of Specific Optical Paths Within Multilayered Materials. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 684-694. | 2.0 | 10 |
| 32 | Fast Terahertz Spectroscopic Holographic Assessment of Optical Properties of Diabetic Blood Plasma. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1041-1056. | 1.2 | 10 |
| 33 | Single-scan multiplane phase retrieval with a radiation of terahertz quantum cascade laser. Applied Physics B: Lasers and Optics, 2022, 128, 1. | 1.1 | 10 |
| 34 | A Versatile Illumination System for Real-Time Terahertz Imaging. Sensors, 2020, 20, 3993. | 2.1 | 8 |
| 35 | Guided Reflectometry Imaging Unit Using Millimeter Wave FMCW Radars. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 647-655. | 2.0 | 8 |
| 36 | Characterization of Varnish Ageing and its Consequences on Terahertz Imagery: Demonstration on a Painting Presumed of the French Renaissance. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1556-1566. | 1.2 | 7 |

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|----|---|-----|-----------|
| 37 | Liquid index matching for 2D and 3D terahertz imaging. Applied Optics, 2016, 55, 9185. | 2.1 | 6 |
| 38 | Frequency modulated continuous wave terahertz imaging for art restoration. , 2016, , . | | 6 |
| 39 | THz spectroscopy and imaging for breast cancer detection in the 300â€“500 GHz range. , 2017, , . | | 5 |
| 40 | Teragologic : Open source platform for low cost millimeter wave sensing and terahertz imaging. , 2021, , . | | 5 |
| 41 | Scanning point terahertz source microscopy of unstained comedo ductal carcinoma in situ. , 2022, 1, 527. | | 5 |
| 42 | AMI: Augmented Michelson Interferometer. Proceedings of SPIE, 2015, , . | 0.8 | 4 |
| 43 | Discrimination and identification of RDX/PETN explosives by chemometrics applied to terahertz time-domain spectral imaging. , 2015, , . | | 4 |
| 44 | NearSense â€“ Advances Towards a Silicon-Based Terahertz Near-Field Imaging Sensor for Ex Vivo Breast Tumour Identification. Frequenz, 2018, 72, 93-99. | 0.6 | 4 |
| 45 | Terahertz spectra of drug-laden magnetic nanoparticles. , 2019, , . | | 4 |
| 46 | Tunable ultrafast infrared generation in a gas-filled hollow-core capillary by a four-wave mixing process. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 662. | 0.9 | 4 |
| 47 | Theoretical and experimental studies of metallic grids absorption: Application to the design of a bolometer. Procedia Chemistry, 2009, 1, 1135-1138. | 0.7 | 3 |
| 48 | 3D-Terahertz Tomography using a more realistic beam propagation model applied to different image reconstruction methods. , 2012, , . | | 3 |
| 49 | A comprehensive study of the application of the EOP techniques on bipolar devices. Microelectronics Reliability, 2014, 54, 2088-2092. | 0.9 | 3 |
| 50 | Room temperature Siâ€“Ti thermopile THz sensor. Microsystem Technologies, 2015, 21, 1627-1631. | 1.2 | 3 |
| 51 | A Solid-State 0.56 THz Near-Field Array for 1/4M-Scale Surface Imaging. , 2018, , . | | 3 |
| 52 | TeraPulse Lx for terahertz imaging of painting on canvas. Journal of Physics: Conference Series, 2021, 1866, 012004. | 0.3 | 3 |
| 53 | Terahertz pulse time-domain holography method for phase imaging of breast tissue. , 2019, , . | | 3 |
| 54 | Guided terahertz pulse reflectometry with double photoconductive antenna. Applied Optics, 2020, 59, 1641. | 0.9 | 3 |

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|----|--|-----|-----------|
| 55 | Spectroscopy and terahertz imaging for sigillography applications. , 2012, , . | | 2 |
| 56 | Millimeter waves reflector with Lüneburg lenses. , 2012, , . | | 2 |
| 57 | 3D terahertz imaging for the control of aeronautics composite multilayered structures. , 2013, , . | | 2 |
| 58 | Structural health monitoring using a scanning THz system. , 2013, , . | | 2 |
| 59 | X-ray versus 3D terahertz imaging for sigillography science. , 2013, , . | | 2 |
| 60 | Processing sequence for non-destructive inspection based on 3D terahertz images. Proceedings of SPIE, 2014, , . | 0.8 | 2 |
| 61 | Temperature effect on reflected laser probing signal of multiple elementary substructures. , 2014, , . | | 2 |
| 62 | Automated data and image processing for biomedical sample analysis. , 2016, , . | | 2 |
| 63 | The terahertz pulse time-domain holography method for phase imaging of breast tissue sample. , 2019, , . | | 2 |
| 64 | Augmented reality terahertz (AR-THz) interface for imaging and sensing. , 2021, , . | | 2 |
| 65 | Terahertz near-field imaging using a Y splitter and Sommerfeld wire waves on bare metal rods. , 2010, , . | | 1 |
| 66 | Investigations of room temperature bolometers for THz applications. , 2010, , . | | 1 |
| 67 | 3D millimeter waves Tomosynthesis for the control of aeronautics materials. , 2013, , . | | 1 |
| 68 | Towards a 3D material characterization using dual-energy THz tomography. , 2014, , . | | 1 |
| 69 | Chemical imaging and quantification of RDX/PETN mixtures by PLS applied on terahertz time-domain spectroscopy. , 2015, , . | | 1 |
| 70 | Terahertz biomedical imaging: From multivariate analysis and detection to material parameter extraction. , 2017, , . | | 1 |
| 71 | Art painting testing with terahertz pulse and frequency modulated continuous wave. , 2017, , . | | 1 |
| 72 | Comparative study of terahertz waveguide in reflective mode configuration. , 2018, , . | | 1 |

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|----|--|-----|-----------|
| 73 | Tomography and image processing for polymer additive manufacturing objects. , 2016, , . | | 1 |
| 74 | A new THz passive radial polarizer. , 2008, , . | | 0 |
| 75 | Influence of the acquisition method on terahertz tomography. , 2013, , . | | 0 |
| 76 | Tomography and image processing for polymer additive manufacturing characterization. , 2016, , . | | 0 |
| 77 | Phase uncertainty in different THz time-domain spectrometers. , 2017, , . | | 0 |
| 78 | Evaluation and correction of distortion for real-time terahertz camera. , 2017, , . | | 0 |
| 79 | A novel approach of aqueous solution analysis using a fully-integrated terahertz near-field sensor. , 2017, , . | | 0 |
| 80 | Guided terahertz pulsed reflectometry simulation with near field probe. , 2017, , . | | 0 |
| 81 | Varnishes of painting material studied by terahertz spectroscopy. , 2018, , . | | 0 |
| 82 | Studies on PCA for Breast Tissue Segmentation. , 2018, , . | | 0 |
| 83 | Shape from Focus Applied to Real- Time Terahertz Imaging. , 2018, , . | | 0 |
| 84 | Interaction of terahertz radiation with tissue phantoms: numerical and experimental studies. EPJ Web of Conferences, 2018, 195, 10012. | 0.1 | 0 |
| 85 | Iterative Tree Algorithm for the Assessment of Optical Path Contributions within Stratified Structures. , 2019, , . | | 0 |
| 86 | Reconstructed THz phase image of the two-component numerical model of breast cancer tissue. , 2019, , . | | 0 |
| 87 | Comparative study of millimeter wave III/V semiconductor and integrated silicon based FMCW radars. , 2019, , . | | 0 |
| 88 | Ancient Painting on Copper Substrate Inspected by Terahertz Spectroscopy-Imaging. , 2019, , . | | 0 |
| 89 | Study of a THz Hollow-core Fiber for Sample Reflectance Analysis. , 2019, , . | | 0 |
| 90 | Terahertz data processing for imaging and spectroscopy of artwork. , 2021, , . | | 0 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 91 | HOBIT - A NEW CONCEPT FOR PEDAGOGICAL INNOVATIONS IN LEARNING AND TEACHING OPTICS. EDULEARN Proceedings, 2021, , . | 0.0 | 0 |
| 92 | Guided terahertz pulsed reflectometry: a remote probe for near-field imaging (Conference) Tj ETQq0 0 0 rgBT /Overlock 10 Tf ₀ 50 702 Td | | |
| 93 | 3D-additive manufacturing non-destructive characterization with terahertz waves (Conference) Tj ETQq1 1 0.784314 rgBT /Overlock 10 | | |
| 94 | Terahertz frequency modulated continuous wave imaging for non-destructive evaluation of painting and multilayer parts. , 2018, , . | | 0 |
| 95 | Scanning laser terahertz near-field reflection microscope for biological analysis. , 2019, , . | | 0 |
| 96 | Terahertz Multiple-Plane Phase Retrieval. , 2020, , . | | 0 |
| 97 | Tunable source of infrared pulses in gas-filled hollow core capillary. , 2020, , . | | 0 |
| 98 | Terahertz Diffractive Reflection Phase Imaging. , 2020, , . | | 0 |