Jean-Paul Guillet

Academic Curriculum Vitae

Associate Professor (Maître de conférences), Hors Classe, CNU Section 63
IMS Laboratory, University of Bordeaux; GEII Department, IUT de Bordeaux
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Current Position

- Associate Professor (Maître de conférences), Hors Classe, CNU Section 63, University of Bordeaux.
- Research affiliation: Laboratoire de l'Intégration du Matériau au Système (IMS), UMR 5218, University of Bordeaux.
- Teaching affiliation: GEII Department, IUT de Bordeaux.
- Member of CNU Section 63 since 2019: appointed mandate 2019-2023, elected mandate 2023-2027.
- Responsible for the experimental THz platform at IMS (two optical rooms) since early 2025.

Academic Profile

Jean-Paul Guillet is an associate professor in electrical engineering, electronics, photonics and systems at the University of Bordeaux. His research activity is centered on terahertz systems and instrumentation, terahertz imaging and spectroscopy, frequency-modulated continuous-wave radar, non-destructive testing, near-field and far-field terahertz sensing, and educational technology for optics and instrumentation. His publication record includes 56 peer-reviewed international journal articles, 95 peer-reviewed international conference papers with proceedings, 3 patents, an h-index of 26, and approximately 2600 citations.

Research Interests and Expertise

- Terahertz waves, millimeter-wave and sub-terahertz instrumentation, FMCW radar, time-domain spectroscopy, near-field microscopy, photoconductive antennas and terahertz components.
- Terahertz imaging for non-destructive testing, aeronautics, additive manufacturing, art conservation and restoration, geology, and biomedical tissue analysis.
- Signal and image processing for terahertz systems: 2D and 3D tomography, tomosynthesis, SAR reconstruction, holography, phase retrieval, image segmentation, dielectric-parameter extraction, guided reflectometry and computational imaging.
- Experimental platforms and component-system integration, including dielectric and hollow-core waveguides, geodesic lenses, multi-beam antennas, silicon-based sensors and photoconductive antenna arrays.
- Educational technology: augmented-reality optics benches, smartphone-based measurement, electronic instrumentation learning environments, and digital resources for engineering education.

Academic Appointments and Research Stays

2013-present	Associate Professor (Maître de conférences), IMS Laboratory and GEII Department, IUT de Bordeaux, University of Bordeaux, France.
2021-2022	Visiting researcher, UCLA, USA, in the group of Prof. Mona Jarrahi; work on photoconductive antenna arrays and non-destructive testing applied to art and heritage.
2015, 2016	Two-week research stays at WNLO, Huazhong University of Science and Technology, Wuhan, China, in the group of Prof. Kejia Wang; terahertz imaging and non-destructive testing for art and heritage.
2012	Two-week stay at Technical University of Kaiserslautern and Fraunhofer ITWM, Germany, in the framework of the European FP7 DOTNAC project; FMCW system training for aeronautical composite non-destructive testing.
2011-2013	Postdoctoral researcher, LOMA, University Bordeaux 1, France.
2010-2011	ATER, IES, University Montpellier 2, France.
2007-2010	Doctoral researcher, IES, University Montpellier 2, France.

Education

- PhD, University Montpellier 2, obtained 14 December 2010. Thesis: *Développement d'un système de microscopie en champ proche terahertz*. Prepared in Montpellier; supervisors: Laurent Chusseau and Annick Penarier.

Scientific Contributions and Highlights

- Developed and applied terahertz and millimeter-wave imaging approaches for non-destructive testing, including contactless inspection, thickness measurement, FMCW radar imaging, guided reflectometry and SAR-based reconstruction.
- Contributed to terahertz biomedical imaging studies on breast tissue, including refractive-index-based approaches, near-field microscopy and pilot studies on human tissue samples in collaboration with clinical and international partners.
- Developed terahertz approaches for art conservation and restoration, including FMCW radar and terahertz spectroscopy/imaging of paintings, pigments and multilayer objects.
- Led the ESA Millimeter Drop Antenna project on a geodesic lens antenna for millimeter waves, in collaboration with KTH Royal Institute of Technology and ESA-ESTEC.
- Developed educational-technology projects in optics and instrumentation, including HOBIT, an augmented-reality optical bench that led to publications, an international patent and a licensed commercial product.

Publication and Output Summary

- 56 peer-reviewed international journal articles, including 38 rank A journal articles.
- 95 peer-reviewed international conference papers with proceedings.
- 3 patents, including one international patent under license to Promic and one 2025 patent on porosity imaging.
- Google Scholar profile: scholar.google.com/citations?user=Te3MRH8AAAAJ.
- HAL CV: cv.archives-ouvertes.fr/jean-paul-guillet.

Patents and Technology Transfer

- Hybrid simulator and method for teaching optics or for training adjustment of an optical device. U.S. Patent No. 10,580,323 (2020), with L. Canioni, M. Hachet, J.-P. Guillet, B. Bousquet and D. Furio. International extension and licensing to Promic.
- Système et méthode pour la génération de signaux èlectronique analogiques destinés à des tests pédagogiques. Filed June 2021; BV_2019-056 / PJ_2018-010 / BNT231234FR00.
- Dispositif et procédé de génération d'images de porosité d'un èchantillon. Federico Sanjuan and Jean-Paul Guillet, 12 February 2025, FR2501528.
- Technology-transfer activity through Aquitaine Science Transfert maturation for HOBIT and a licensed commercialized educational product.

Funded Projects and Grants

Projects as Principal Investigator or Project Holder

- Department SIN, University of Bordeaux, 2024-2025, EUR 13k.
- Department SIN, University of Bordeaux, 2022, EUR 12k: development of non-destructive testing techniques between 10 and 300 GHz with Mehdi Sbartaï, I2M, University of Bordeaux.
- ESA Millimeter Drop Antenna, EUR 180k: geodesic antenna for millimeter waves, with Oscar Quevedo-Teruel (KTH Royal Institute of Technology) and Nelson Fonseca (ESA-ESTEC).
- Région Nouvelle-Aquitaine Terascope, EUR 200k: high-power portable terahertz sensors for non-destructive testing, with Lytid and RD Vision.
- IDEX Bordeaux, 2016, EUR 8.5k: terahertz imaging of art paintings for restoration, including mobility with WNLO, Huazhong University of Science and Technology, Wuhan, China.
- CNES Research and Technology, 2015, EUR 26.4k: terahertz techniques for failure analysis in integrated circuits.

- Department SIN, University of Bordeaux, 2014, EUR 20k: equipment for studying pulsed-laser-induced terahertz emission for defect detection in integrated circuits.

Educational-Technology Projects as Project Holder

- NRA HOBIT, 2021, EUR 169k: augmented-reality optics teaching in Nouvelle-Aquitaine.
- Aquitaine Science Transfert, Maturation HOBIT, 2018, EUR 95k: HOBIT prototype development toward industrial maturation.
- IDEX University of Bordeaux, 2015, EUR 27k: pedagogical evaluation of AMI, the Augmented Michelson Interferometer.

Participation in Funded Research Projects

- PEPR Terahertz; NRA ICND I2M; NRA FARSenSE; NRA Saphyr; ANR-DFG NearSense 2; FUI Athermo; EURAMET JRP MetAMMI; ANR-DFG NearSense; NRA IdeAl; ANR-DFG InPoSec; EU FP7 DOTNAC; CNRS FIRLAB RFBR-France; GIS Albatros.
- Educational-technology participation: NRA CobAquit, STEP University of Bordeaux HOBIT+, NRA SmartphoniaQ, and Labex CPU HOBIT.

International Collaborations and Experience

- International collaborations: UCLA and the Getty Center (USA), Wuppertal (Germany), WNLO/Huazhong University of Science and Technology (China), UNICAMP and Instituto de Física Gleb Wataghin (Brazil), ITMO (Russia), ESA-ESTEC (Netherlands), and KTH Royal Institute of Technology (Sweden).
- National collaborations and partners: XLIM, IES, IMEP-LAHC, CEA, CEA Tech, CNES, Luxondes, Lytid, Noctylio, MC2, OptiKan, RD Vision, CELIA, I2M and C2RMF.

Teaching Activities

- Main teaching areas: electrical and electronic engineering, digital electronics, industrial computing, programming, automation, Arduino, VHDL, analog electronics, microwave engineering, terahertz FMCW radar, laser telemetry, C++ and embedded systems, and professional-development support.
- Teaching hours: 148 h eqTD in 2022-2023; 220 h eqTD in 2023-2024; 220 h eqTD in 2024-2025; 274 h eqTD in 2025-2026.
- Since 2013, teaching at IUT GEII has included first-year industrial computing, VHDL, C programming, automation, Arduino, analog electronics, project-based SAé robot sumo activities, tutoring of projects and internships, and apprentice follow-up.
- Master-level teaching includes programming in Master GILOG, C++ programming in Master IMSAT, laser telemetry in EUR Light, and a terahertz FMCW radar module in EUR Light from 2023.
- International teaching activity: English-language teaching in the GEII Euro group and an 8-hour course on terahertz waves at the International Centre for Theoretical Physics in Trieste under UNESCO auspices.

Teaching Portfolio

Years	Level	Program	Course or activity	Nature	N	h
2023-	Bac+5	EUR Light	Millimeter radar	Integrated tutorial	12	20
2023-	Bac+5	Master GILOG	Arduino programming	Lectures, tutorials, practicals	15	20
2021	Bac+5	EUR Light	Laser telemetry	Integrated tutorial	12	20
2017-2021	Bac+4	Master IMSAT	C++ programming	Integrated tutorial	15	18
2022-	Bac+2	BUT GEII	SAé Robot Sumo	Practical work	28	28
2013-	Bac+1	BUT GEII	Arduino programming	Tutorials, practicals	24	28
2013-2021	Bac+1	DUT GEII	Industrial computing	Lecture	140	4
2013-2021	Bac+1	DUT GEII	Industrial computing	Tutorial	28	28

2015-2022	Bac+2	DUT GEII	Personal and professional project	Practical work	14	12
2013-2021	Bac+1	DUT GEII	Digital electronics, VHDL	Lecture	140	4
2013-2021	Bac+1	DUT GEII	Digital electronics, VHDL	Tutorial	28	4
2013-2021	Bac+1	DUT GEII	Digital electronics, VHDL	Practical work	14	28
2013-2020	Bac+1	DUT GEII	Automation	Lecture	140	2
2013-2020	Bac+1	DUT GEII	Automation	Tutorial	28	4
2013-2020	Bac+1	DUT GEII	Automation	Practical work	14	8
2013-2019	Bac+1	DUT GEII	C programming	Practical work	32	8
2018-2020	Bac+2	DUT GEII	Analog electronics	Practical work	32	8

Pedagogical Responsibilities and Innovation

- Course-unit responsibility at IUT de Bordeaux: first-year DUT GEII industrial computing (2013-2021), first-year DUT GEII VHDL practical work (2013-2021), first-year DUT GEII C programming practical work (2013-2018), first-year DUT GEII automation practical work (2013-2021), and Arduino course unit (2013-2021 and 2023-present).
- Coordination of teams of 5 to 8 teachers and external instructors, including examination preparation, course and practical-work creation, grading management and resit organization.
- Co-responsible for the GEII Euro group with S. Bouter and T. Levi (2016-2020), including student recruitment, English-language materials and English-language teaching.
- Creator, manager and maintainer of the GEII department website from 2013 to 2021; also created and managed departmental social media and YouTube communication channels.
- Moodle referent for the IUT and the GEII department since 2013.
- Deputy head of the GEII department in 2023, with responsibilities in scheduling, project activities, AOP implementation, teaching-load structure and teaching evaluation processes.
- Supervision of 2 to 4 apprentices per year and 3 to 5 internships per year.
- EdTech activities in augmented-reality optics, smartphone-based measurement and electronic instrumentation, with publications, patents and a licensed product.

Supervision and Mentoring

Doctoral Supervision

- Barnabé Carré, University of Bordeaux, September 2021-December 2024. Topic: application developments for the integrability of imaging systems and thickness control using FMCW radar in the terahertz domain. Laboratory: IMS. Funding: CIFRE thesis with Lytid. Supervisor: Jean-Paul Guillet (100%) with authorization to supervise a thesis.
- Adrien Chopard, University of Bordeaux, September 2017-November 2021. Topic: *Terahertz Inspection Through FMCW Radar Developments and Advanced Imaging Approaches*. Laboratory: IMS. Funding: CIFRE thesis with Lytid. Supervisor: Patrick Mounaix (50%); co-supervision: Pierre Gellie (33%) and Jean-Paul Guillet (33%).
- Mingming Pan, University of Bordeaux, September 2017-July 2020. Topic: guided time-domain reflectometry for terahertz optics. Laboratory: IMS. Funding: ministry thesis. Supervisor: Patrick Mounaix (45%); co-supervision: Dean Lewis (10%) and Jean-Paul Guillet (45%).
- Quentin Cassar, University of Bordeaux, January 2017-June 2020. Topic: applications of terahertz spectro-imaging for breast-cancer detection. Laboratory: IMS. Funding: ANR NearSense. Supervisor: Patrick Mounaix (50%); co-supervisor: Jean-Paul Guillet (50%).
- Amel Al-Ibadi, University of Bordeaux, January 2015-April 2018. Topic: terahertz spectro-imaging of biological tissues for breast-cancer detection. Laboratory: IMS. Funding: Campus France. Supervisor: Patrick Mounaix (50%); co-supervisor: Jean-Paul Guillet (50%).
- Abhishek El Shaji, University of Bordeaux, from October 2025. Topic: terahertz array sources and sensors for far-field and near-field imaging. Laboratory: IMS. Funding: ministry. Supervisor: Jean-Paul Guillet (70%); co-supervisor: Frédéric Darracq (30%).

Postdoctoral Researchers and Engineers

- Quentin Cassar, University of Bordeaux, September 2017-November 2021. Terahertz imaging and spectroscopy for tumor-tissue detection; ANR-DFG NearSense 2. Subsequent position: CTO, OptiKan.
- Corinna Koch Dandolo, University of Bordeaux, January-November 2018. Terahertz and millimeter-wave analysis for art conservation; Swiss National Science Foundation.
- Jean-Baptiste Perraud, University of Bordeaux, September 2017-November 2021. Terahertz imaging and spectroscopy for tumor-tissue detection and non-destructive testing of additive-manufactured objects; MetAMMI. Subsequent position: CEO, OptiKan.
- David Furio, University of Bordeaux, November 2016-November 2017. Augmented-reality system associated with sensors and simulation for optics teaching; IDEX.
- Hugo Balacey, University of Bordeaux, November 2017-November 2018. Parallel and automated signal-processing methods; ANR-DFG NearSense.

Scientific Responsibilities and Service

- Head of the Laser & Terahertz research team at IMS from 2016 until the end of 2024, including scientific animation, coordination of ongoing work, project follow-up and contribution to research orientations.
- Responsible for an independent 56 m^2 experimental terahertz platform at IMS since early 2025, including two optical rooms, equipment follow-up, maintenance, purchasing and calls for tender.
- Member of CNU Section 63 since 2019: appointed member for 2019-2023 and elected member for 2023-2027; activities include qualification, CRCT, grade-promotion, PEDR and RIPEC sessions, application assessment, deliberation and report writing.
- Regular reviewer for international journals, including Scientific Reports, Journal of Optics, Laser Technology, IEEE Transactions on Terahertz Science and Technology, MDPI Electronics and Sensors.
- Guest editor for special issues in MDPI Electronics and Sensors.
- Expert reviewer for research-evaluation bodies and funding schemes: FFG expertise in 2014, ANR generic-project expertise in 2021-2022, ANR “Instrumentation aux limites” expertise in 2015, and credit-research-tax expertise in 2025.
- Active IEEE member, SPIE lifetime member, URSI member and Club EEA member.

Conference Organization, Committees and Juries

- Conference organization committees: SPIE Optics + Photonics 2024, San Diego; SPIE Optics + Photonics 2023, San Diego; ESREF 2017; Optique 2016; Colloque GEII 2015.
- External PhD/HDR jury participation: Maha El Abed, University Côte d’Azur, 2026, rapporteur; Yanisse Boudrouz, University Paris-Saclay, 2025; Anna De Vetter, Sorbonne University, 2025; Pierre Payet, University of Montpellier, 2018; Rachid Omarouayache, University of Montpellier, 2015.
- Recruitment and selection committees: MCF Section 63 committee at IUT de Bordeaux in 2018; ATER committee at IUT de Bordeaux in 2015; secondary-school teacher committee at IUT de Bordeaux, Périgueux site, in 2024.

Administrative and Collective Responsibilities

- Elected member of the GEII Department Council, IUT de Bordeaux, 2014-2017 and again from 2022.
- Deputy head of the GEII department in 2023.
- Member of the IMS communication unit since 2023, with synthesis, formatting and reporting of terahertz-group news.
- Orientation and outreach for GEII: student fairs, open days, high-school forums, and review of 30 to 70 Parcoursup files per year.

Awards, Distinctions and Recognitions

- PEDR, CNU Section 63, 2017-2021; RIPEC, 2023-2027, after a one-year gap.
- National PEPS Pedagogical Excellence Certificate for SmartphoniaQ, 2019.
- University of Bordeaux regional PEPS prize for HOBIT, 2016.

Outreach and Dissemination

- Laboratory reception for 35 high-school and middle-school pupils, with four groups visiting the laser and terahertz experimental platform, 8 October 2024.
- Nuit de la recherche 2024: terahertz-wave discovery activity with middle-school pupils at Cap Sciences, 26 September 2024.
- Public presentation “Terahertz for art conservation and restoration”, S. Ashkenazy Foundation, Beverly Hills, USA, 18 July 2022.
- Public presentation “Terahertz Waves: When European science meets worldwide art”, Consulate of Los Angeles, USA, 23 June 2022.
- Demonstration stand with a terahertz camera at Cap Sciences, 15 October 2018.
- Media and dissemination coverage includes BBC Click/BBC World, France Inter, Journal du CNRS, Les Echos, Ouest France, Laser Focus World, Technology Networks, Bioengineer.org, ScienMag, INSIS CNRS, Techno-Science and Innovation Review.

Technical Skills and Instrumentation

- Experimental terahertz systems: time-domain spectroscopy, FMCW radar, near-field microscopy, full-field imaging, blackbody-source sensing, guided reflectometry, photoconductive antenna systems and millimeter/sub-terahertz imaging.
- Signal and image processing: tomography, tomosynthesis, SAR reconstruction, phase retrieval, holography, lensless imaging, shape-from-focus, segmentation, multivariate analysis, dielectric extraction, deconvolution and FMCW calibration.
- Components and electromagnetic design: dielectric and hollow-core waveguides, geodesic/Luneburg lenses, multi-beam antennas, finite-element and FDTD electromagnetic simulation, silicon-based sensors and photoconductive antenna arrays.
- Engineering education technologies: augmented-reality optical benches, smartphone sensing, Arduino and microcontroller teaching, VHDL, C/C++, Moodle, online teaching resources and electronic instrumentation training systems.

Complete Publication List

Peer-Reviewed International Journal Articles (56)

Ri 56 Guillet, J. P., Berthoumieu, J. F., & Demontoux, F. (2026) Terahertz time-of-flight contrast for non-destructive visualization of bruchid damage in lentils: a feasibility study. Advanced Optical Technologies, 15, 1704376.

Ri 55 Casamayou, V., Bousquet, B., Dillmann, J., Salin, N., Guillet, J. P., Canioni, L., & Hachet, M. (2025). Pushing the boundaries of hands-on optics experiments with interactive digital simulation. Discover Education, 4(1), 280.

Ri 54 Yanez-Godoy, H., Bui, M. T., Elachachi, S. M., El Oifi, B., & Guillet, J. P. (2025). Strategies for Assessing the Mechanical Impact of Climate Change on Urban Networks Using Physical Modeling. Academic Journal of Civil Engineering, 43(1), 732- 741.

Ri 53 Castillo-Tapia, P., Yang, S., Palomares-Caballero, A., Guillet, J. P., Fonseca, N. J. G., & Quevedo-Teruel, O. (2025). SubTHz fully-metallic geodesic luneburg lens antenna. IEEE Transactions on Terahertz Science and Technology, 15(3), 514-518.

Ri 52 Taton, G., Fauquet, F., Betka, I., Guillet, J. P., Darracq, F., Mounaix, P., & Bigourd, D. (2025). Broadband THz emission of long pulses from photomixing process with optical chirped pulses. Optics Letters, 50(2), 650-653.

Ri 51 Guillet, J. P., Fauquet, F., & Rioult, J. (2024). Augmented Reality Terahertz (AR-THz) Sensing and Imaging with Frequency-Modulated Continuous-Wave Radar. Journal of Infrared, Millimeter, and Terahertz Waves, 45(5), 433-443.

Ri 50 Bousquet, B., Hachet, M., Casamayou, V., Normand, E., Guillet, J. P., & Canioni, L. (2024). Reconfigurable and versatile augmented reality optical setup for tangible experimentations. Discover Education, 3(1), 113.

Ri 49 Sanjuan, F., Fauquet, F., Fasentieux, B., Mounaix, P., & Guillet, J. P. (2023). Feasibility of Using a 300 GHz Radar to Detect Fractures and Lithological Changes in Rocks. Remote Sensing, 15(10), 2605.

Ri 48 Tsiplakova, E. G., Chopard, A., Balbekin, N. S., Smolyanskaya, O. A., Perraud, J. B., Guillet, J. P., ... & Petrov, N. V. (2023). An algorithm of unordered wavefront propagation in terahertz phase retrieval with dense multiplane data acquisition. Computer Optics, 47(6), 901-912.

Ri 47 Elizaveta Tsiplakova, Jean-Baptiste Perraud, Adrien Chopard, Jean-Paul Guillet, Patrick Mounaix, and Nikolay Petrov (2023) Terahertz Diffractive Imaging with Saturated Data Inpainting. Optics Letters , DOI: 10.1364/OL.499478

Ri 46 Chopard, A., Guillet, J. P., Gellie, P., Recur, B., Balacey, H., & Mounaix, P. (2023). Skeletonization and 3D rendering with real time terahertz tomography. Optics Continuum, 2(5), 1060-1067.

Ri 45 Carré, B., Chopard, A., Guillet, J. P., Fauquet, F., Mounaix, P., & Gellie, P. (2022). Terahertz Nondestructive Testing with Ultra-Wideband FMCW Radar. Sensors, 23(1), 187.

Ri 44 Okada, K., Cassar, Q., Murakami, H., MacGrogan, G., Guillet, J. P., Mounaix, P., ... & Serita, K. (2022). Scanning point terahertz source microscopy of unstained comedo ductal carcinoma in situ. Optics Continuum, 1(3), 527-537.

Ri 43 Chopard, A., Tsiplakova, E., Balbekin, N., Smolyanskaya, O., Perraud, J. B., Guillet, J. P., ... & Mounaix, P. (2022). Single-scan multiplane phase retrieval with a radiation of terahertz quantum cascade laser. Applied Physics B, 128(3), 1-9.

Ri 42 Zurita-Miranda, O., Fourcade-Dutin, C., Fauquet, F., Darracq, F., Guillet, J. P., Mounaix, P., ... & Bigourd, D. (2022). Tunable ultrafast infrared generation in a gasfilled hollow-core capillary by a four-wave mixing process. JOSA B, 39(3), 662-670.

Ri 41 Chopard, A., Sleiman, J. B., Cassar, Q., Guillet, J. P., Pan, M., Perraud, J. B., ... & Mounaix, P. (2021). Terahertz waves for contactless control and imaging in aeronautics industry. NDT & E International, 102473.

Ri 40 Okada, K., Cassar, Q., Murakami, H., MacGrogan, G., Guillet, J. P., Mounaix, P., ... & Serita, K. (2021, May). Label-Free Observation of Micrometric Inhomogeneity of Human Breast Cancer Cell Density Using Terahertz Near-Field Microscopy. In Photonics (Vol. 8, No. 5, p. 151).

Ri 39 Sirro, S., Odlyanitskiy, E., Portieri, A., Taday, P., Arnone, D. D., Guillet, J. P., & Smolyanskaya, O. (2021, April). TeraPulse Lx for terahertz imaging of painting on canvas. In Journal of Physics (Vol. 1866, No. 1, p. 012004). IOP Publishing.

Ri 38 Cassar, Q., Caravera, S., MacGrogan, G., Bücher, T., Hillger, P., Pfeiffer, U., Zimmer, T, Guillet, J.-P. & Mounaix, P. (2021). Terahertz refractive index-based morphological dilation for breast carcinoma delineation. Scientific reports, 11(1), 1-16.

Ri 37 Cassar, Q., Koch-Dandolo, C. L., Guillet, J. P., Roux, M., Fauquet, F., Perraud, J. B., & Mounaix, P. (2020). 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, 41(12), 1556-1566.

Ri 36 Okada, K., Serita, K., Cassar, Q., Murakami, H., MacGrogan, G., Guillet, J. P., ... & Tonouchi, M. (2020). Terahertz near-field microscopy of ductal carcinoma in situ (DCIS) of the breast. Journal of Physics: Photonics, 2(4), 044008.

Ri 35 Kulya, M. S., Odlyanitskiy, E. L., Cassar, Q., Mustafin, I. A., Trukhin, V. N., Gavrilova, P. G., ... & Smolyanskaya, O. A. (2020). Fast terahertz spectroscopic holographic assessment of optical properties of diabetic blood plasma. Journal of Infrared, Millimeter, and Terahertz Waves, 41(9), 1041-1056.

Ri 34 Petrov, N. V., Perraud, J. B., Chopard, A., Guillet, J. P., Smolyanskaya, O. A., & Mounaix, P. (2020). Terahertz phase retrieval imaging in reflection. Optics Letters, 45(15), 4168-4171.

Ri 33 Pan, M., Chopard, A., Fauquet, F., Mounaix, P., & Guillet, J. P. (2020). Guided Reflectometry Imaging Unit Using Millimeter Wave FMCW Radars. IEEE Transactions on Terahertz Science and Technology, 10(6), 647-655.

Ri 32 Cassar, Q., Lykina, A. A., Lepeshkin, A. I., Baranenko, D. A., Kravtsenyuk, O. V., Mounaux, P., ... & Smolyanskaya, O. A. (2020, May). Using soy protein in the threecomponent phantom for breast cancer mimicking. Journal of Physics: Conference Series (Vol. 1537, No. 1, p. 012019). IOP Publishing.

Ri 31 Pan, M., Cassar, Q., Fauquet, F., Humbert, G., Mounaix, P., & Guillet, J. P. (2020). Guided terahertz pulse reflectometry with double photoconductive antenna. Applied optics, 59(6), 1641-1647.

Ri 30 Perraud, J. B., Chopard, A., Guillet, J. P., Gellie, P., Vuillot, A., & Mounaix, P. (2020). A versatile illumination system for real-time terahertz imaging. Sensors, 20(14), 3993.

Ri 29 Okada, Kosuke; Serita, Kazunori; Zang, Zirui; Murakami, Hironaru; Kawayama, Iwao; Cassar, Quentin; Macgrogan, Gaetan; Guillet, Jean-Paul; Mounaix, Patrick; Tonouchi, Masayoshi; Scanning laser terahertz near-field reflection imaging system, Applied Physics Express, 12,12,122005,2019, IOP Publishing

Ri 28 Cassar, Quentin; Chopard, Adrien; Fauquet, Frederic; Guillet, Jean-Paul; Pan, Mingming; Perraud, Jean-Baptiste; Mounaix, Patrick; ,Iterative Tree Algorithm to Evaluate Terahertz Signal Contribution of Specific Optical Paths Within Multilayered Materials, IEEE Transactions on Terahertz Science and Technology,9,6,684- 694,2019,IEEE

Ri 27 Pfeiffer, Ullrich R; Hillger, Philipp; Jain, Ritesh; Grzyb, Janusz; Bucher, Thomas; Cassar, Quentin; MacGrogan, Gaetan; Guillet, Jean-Paul; Mounaix, Patrick; Zimmer, Thomas; ,Ex Vivo Breast Tumor Identification: Advances Toward a Silicon-Based Terahertz Near-Field Imaging Sensor, IEEE Microwave Magazine, 20,9,32-46,2019, IEEE

Ri 26 Mavarani, Laven; Hillger, Philipp; Bucher, Thomas; Grzyb, Janusz; Cassar, Quentin; Al-Ibadi, Amel; Zimmer, Thomas; Macgrogan, Gaetan; Guillet, Jean-Paul; Mounaix, Patrick; ,NearSense-advances towards a silicon-based terahertz near-field imaging sensor for Ex vivo breast tumour identification, 2018, Frequenz, 72(3-4), 93-99

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