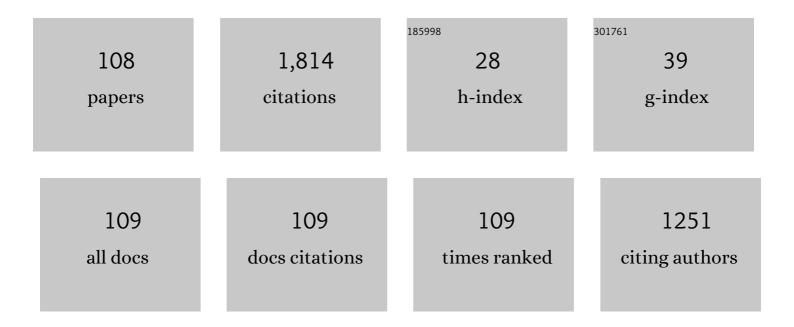
Francis Hindle

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | Detection and quantification of multiple molecular species in mainstream cigarette smoke by continuous-wave terahertz spectroscopy. Optics Letters, 2006, 31, 2356. | 1.7 | 115 |
| 2 | Toward in-cylinder absorption tomography in a production engine. Applied Optics, 2005, 44, 6578. | 2.1 | 77 |
| 3 | Spectrally interleaved, comb-mode-resolved spectroscopy using swept dual terahertz combs. Scientific Reports, 2014, 4, 3816. | 1.6 | 74 |
| 4 | Measurement of gaseous hydrocarbon distribution by a near-infrared absorption tomography system. Journal of Electronic Imaging, 2001, 10, 593. | 0.5 | 63 |
| 5 | Adaptive sampling dual terahertz comb spectroscopy using dual free-running femtosecond lasers. Scientific Reports, 2015, 5, 10786. | 1.6 | 60 |
| 6 | Milliwatt-level output power in the sub-terahertz range generated by photomixing in a GaAs photoconductor. Applied Physics Letters, 2011, 99, . | 1.5 | 57 |
| 7 | THz photomixing synthesizer based on a fiber frequency comb. Optics Express, 2009, 17, 22031. | 1.7 | 50 |
| 8 | Dynamic terahertz spectroscopy of gas molecules mixed with unwanted aerosol under atmospheric pressure using fibre-based asynchronous-optical-sampling terahertz time-domain spectroscopy. Scientific Reports, 2016, 6, 28114. | 1.6 | 49 |
| 9 | Inscription of Long-Period Gratings in Pure Silica and Germano–Silicate Fiber Cores by Femtosecond Laser Irradiation. IEEE Photonics Technology Letters, 2004, 16, 1861-1863. | 1.3 | 48 |
| 10 | Continuous-wave terahertz by photomixing: applications to gas phase pollutant detection and quantification. Comptes Rendus Physique, 2008, 9, 262-275. | 0.3 | 44 |
| 11 | High-efficiency uni-travelling-carrier photomixer at 1.55â€[micro sign]m and spectroscopy application up to 1.4â€THz. Electronics Letters, 2008, 44, 1320. | 0.5 | 43 |
| 12 | Multiple component analysis of cigarette smoke using THz spectroscopy, comparison with standard chemical analytical methods. Applied Physics B: Lasers and Optics, 2007, 86, 579-586. | 1.1 | 42 |
| 13 | Far-infrared cw difference-frequency generation using vertically integrated and planar low temperature grown GaAs photomixers: application to H2S rotational spectrum up to 3�THz. Applied Physics B: Lasers and Optics, 2004, 79, 725-729. | 1.1 | 41 |
| 14 | Chemical species tomography by near infra-red absorption. Chemical Engineering Journal, 2000, 77, 111-118. | 6.6 | 40 |
| 15 | Theoretical and experimental studies of CH3X–Y2 rotational line shapes for atmospheric spectra modelling: application to room-temperature CH3Cl–O2. Physical Chemistry Chemical Physics, 2011, 13, 20326. | 1.3 | 39 |
| 16 | Terahertz Comb Spectroscopy Traceable to Microwave Frequency Standard. IEEE Transactions on Terahertz Science and Technology, 2013, 3, 322-330. | 2.0 | 39 |
| 17 | Adaptive-sampling near-Doppler-limited terahertz dual-comb spectroscopy with a free-running single-cavity fiber laser. Advanced Photonics, 2020, 2, 1. | 6.2 | 38 |
| 18 | Continuous terahertz-wave generation using a monolithically integrated horn antenna. Applied Physics Letters, 2008, 93, . | 1.5 | 37 |

| # | Article | IF | CITATIONS |
|----|--|------------------|-------------------|
| 19 | Tomographic measurement of femtosecond-laser induced stress changes in optical fibers. Applied Physics Letters, 2004, 84, 4983-4985. | 1.5 | 35 |
| 20 | Enhancement of spectral resolution and accuracy in asynchronous-optical-sampling terahertz time-domain spectroscopy for low-pressure gas-phase analysis. Optics Express, 2012, 20, 15071. | 1.7 | 35 |
| 21 | Analysis of self-broadened pure rotational and rovibrational lines of methyl chloride at room temperature. Journal of Quantitative Spectroscopy and Radiative Transfer, 2013, 116, 87-100. | 1.1 | 35 |
| 22 | Terahertz gas phase spectroscopy using a high-finesse Fabry–Pérot cavity. Optica, 2019, 6, 1449. | 4.8 | 34 |
| 23 | Widely tunable THz synthesizer. Applied Physics B: Lasers and Optics, 2011, 104, 763-768. | 1.1 | 32 |
| 24 | Monitoring of food spoilage by high resolution THz analysis. Analyst, The, 2018, 143, 5536-5544. | 1.7 | 32 |
| 25 | Terahertz spectroscopy applied to the measurement of strengths and self-broadening coefficients for high-J lines of OCS. Journal of Molecular Spectroscopy, 2006, 239, 182-189. | 0.4 | 31 |
| 26 | Oxygen, nitrogen and air broadening of HCN spectral lines at terahertz frequencies. Journal of Quantitative Spectroscopy and Radiative Transfer, 2008, 109, 2857-2868. | 1.1 | 30 |
| 27 | High density terahertz frequency comb produced by coherent synchrotron radiation. Nature Communications, 2015, 6, 7733. | 5.8 | 30 |
| 28 | Anomalous dispersion measurement in terahertz frequency region by photomixing. Applied Physics Letters, 2006, 88, 181105. | 1.5 | 29 |
| 29 | Recent Developments of an Opto-Electronic THz Spectrometer for High-Resolution Spectroscopy. Sensors, 2009, 9, 9039-9057. | 2.1 | 29 |
| 30 | Versatile Sub-THz Spectrometer for Trace Gas Analysis. IEEE Sensors Journal, 2013, 13, 133-138. | 2.4 | 28 |
| 31 | Experimental studies by complementary terahertz techniques and semi-classical calculations of N2- broadening coefficients of CH335Cl. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1113-1126. | 1.1 | 27 |
| 32 | THz media characterization by means of coherent homodyne detection, results and potential applications. Applied Physics B: Lasers and Optics, 2007, 89, 395-399. | 1.1 | 26 |
| 33 | New investigation on THz spectra of OH and SH radicals (X <mml:math) (overlock="" 0.784314="" 1="" 10<="" etqq1="" rgbt="" td="" tj=""><td>1f 50 197 1.2</td><td>Td (xmlns:m 22</td></mml:math)> | 1f 50 197 1.2 | Td (xmlns:m 22 |
| 34 | Chemical Physics Letters, 2012, 550, 8-14. Super-resolution discrete Fourier transform spectroscopy beyond time-window size limitation using precisely periodic pulsed radiation. Optica, 2015, 2, 460. | 4.8 | 21 |
| 35 | Towards the Detection of Explosive Taggants: Microwave and Millimetreâ€Wave Gasâ€Phase Spectroscopies of 3â€Nitrotoluene. ChemPhysChem, 2018, 19, 1056-1067. | 1.0 | 21 |
| 36 | A COMPLETE SPECTROSCOPIC CHARACTERIZATION OF SO AND ITS ISOTOPOLOGUES UP TO THE TERAHERTZ DOMAIN. Astrophysical Journal, 2015, 799, 115. | 1.6 | 18 |

| # | Article | IF | CITATIONS |
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| 37 | Rotational spectroscopy and dynamics of carbonyl sulphide studied by terahertz free induction decays signals. Optics Communications, 2008, 281, 3111-3119. | 1.0 | 17 |
| 38 | Wide-band continuous-wave terahertz source with a vertically integrated photomixer. Applied Physics Letters, 2009, 95, . | 1.5 | 17 |
| 39 | Structural analysis of xCsCl(1â^'x)Ga2S3 glasses by means of DFT calculations and Raman spectroscopy. Journal of Raman Spectroscopy, 2010, 41, 1050-1058. | 1.2 | 16 |
| 40 | Terahertz Frequency-Domain Spectroscopy of Low-Pressure Acetonitrile Gas by a Photomixing Terahertz Synthesizer Referenced to Dual Optical Frequency Combs. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 903-915. | 1.2 | 16 |
| 41 | Terahertz Rotational Spectroscopy of Greenhouse Gases Using Long Interaction Path-Lengths. Applied Sciences (Switzerland), 2021, 11, 1229. | 1.3 | 16 |
| 42 | Fiber-Based UV Laser-Diode Fluorescence Sensor for Commercial Gasolines. IEEE Sensors Journal, 2004, 4, 681-690. | 2.4 | 14 |
| 43 | Gas-Phase Synchrotron FTIR Spectroscopy of Weakly Volatile Alkyl Phosphonate and Alkyl Phosphate Compounds: Vibrational and Conformational Analysis in the Terahertz/Far-IR Spectral Domain. Journal of Physical Chemistry B, 2010, 114, 16936-16947. | 1.2 | 14 |
| 44 | Rotation-vibration interactions in the spectra of polycyclic aromatic hydrocarbons: Quinoline as a test-case species. Journal of Chemical Physics, 2015, 142, 104310. | 1.2 | 14 |
| 45 | Doppler limited rotational transitions of OH and SH radicals measured by continuous-wave terahertz photomixing. Journal of Molecular Structure, 2011, 1006, 13-19. | 1.8 | 12 |
| 46 | Spectral lines of methane measured up to 2.6 THz at sub-MHz accuracy with a CW-THz photomixing spectrometer: Line positions of rotational transitions induced by centrifugal distortion. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 203, 349-354. | 1.1 | 12 |
| 47 | First demonstration of optical fluorescence auto-projection tomography. Chemical Engineering Journal, 2000, 77, 127-135. | 6.6 | 11 |
| 48 | Far-infrared high resolution synchrotron FTIR spectroscopy of the $\hat{1}/211$ bending vibrational fundamental transition of dimethylsulfoxyde. Chemical Physics Letters, 2010, 492, 30-34. | 1.2 | 11 |
| 49 | Full Conformational Landscape of 3â€Methoxyphenol Revealed by Room Temperature mmâ€wave Rotational Spectroscopy Supported by Quantum Chemical Calculations. ChemPhysChem, 2018, 19, 1572-1578. | 1.0 | 11 |
| 50 | Characteristics of Gasoline Fluorescence Using 404-nm Semi-Conductor Laser Diode Excitation. Applied Spectroscopy, 2002, 56, 846-851. | 1.2 | 10 |
| 51 | Rotational structure of the five lowest frequency fundamental vibrational states of dimethylsulfoxide. Chemical Physics Letters, 2013, 586, 10-15. | 1.2 | 10 |
| 52 | Guest Editorial THz Sensing: Materials, Devices, and Systems. IEEE Sensors Journal, 2013, 13, 7-7. | 2.4 | 10 |
| 53 | Synthesis and properties of new CdSe–AgI–As2Se3 chalcogenide glasses. Materials Research Bulletin, 2011, 46, 210-215. | 2.7 | 9 |
| 54 | Rotational spectrum of formaldehyde reinvestigated using a photomixing THz synthesizer. Journal of Molecular Spectroscopy, 2012, 279, 12-15. | 0.4 | 9 |

| # | Article | IF | CITATIONS |
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| 55 | Chirped Pulse Spectrometer Operating at 200 GHz. Journal of Infrared, Millimeter, and Terahertz Waves, 2018, 39, 105-119. | 1.2 | 9 |
| 56 | Optically Pumped Terahertz Molecular Laser: Gain Factor and Validation up to 5.5 THz. Advanced Photonics Research, 2022, 3, . | 1.7 | 9 |
| 57 | High resolution spectroscopy of six SOCl2 isotopologues from the microwave to the far-infrared. Journal of Chemical Physics, 2016, 144, 084305. | 1.2 | 8 |
| 58 | Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at megahertz resolution. Optics Letters, 2019, 44, 4985. | 1.7 | 8 |
| 59 | Structural analysis of xCsCl(1â^x)Ga2S3 glasses. Journal of Non-Crystalline Solids, 2008, 354, 134-137. | 1.5 | 7 |
| 60 | CH3D photomixing spectroscopy up to 2.5 THz: New set of rotational and dipole parameters, first THz self-broadening measurements. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 189, 198-205. | 1.1 | 7 |
| 61 | Gas phase THz spectroscopy of toxic agent simulant compounds using the AILES synchrotron beamline. , 2010, , . | | 6 |
| 62 | Conformational landscape and inertial defect of methoxyphenol isomers studied by mm-wave spectroscopy and quantum chemistry calculations. Journal of Chemical Physics, 2019, 150, 104303. | 1.2 | 6 |
| 63 | Self and N2 broadening coefficients of H2S probed by submillimeter spectroscopy: Comparison with IR measurements and semi-classical calculations. Journal of Quantitative Spectroscopy and Radiative Transfer, 2020, 247, 106955. | 1.1 | 5 |
| 64 | Characterization of the Observed Electric Field and Molecular Relaxation Times for Millimeter-Wave Chirped Pulse Instrumentation. Journal of Infrared, Millimeter, and Terahertz Waves, 2020, 41, 1009-1021. | 1.2 | 5 |
| 65 | Applicability of blue/uv laser diodes for the measurement of vaporized fuel fluorescence around stoichiometric concentrations. IEEE Sensors Journal, 2003, 3, 766-773. | 2.4 | 4 |
| 66 | Unlocking synchrotron sources for THz spectroscopy at sub-MHz resolution. Optics Express, 2022, 30, 7372. | 1.7 | 4 |
| 67 | Near-infrared absorption tomography system for measurement of gaseous hydrocarbon distribution. , 2001, 4188, 141. | | 3 |
| 68 | Terahertz photomixing in InP/InGaAs UTC-PD integrated with TEM horn antennas. , 2008, , . | | 3 |
| 69 | Fiberâ€based telecoms components at 1550 nm for the generation of cwâ€THz by photomixing. Microwave and Optical Technology Letters, 2009, 51, 991-994. | 0.9 | 3 |
| 70 | Study of the pseudo-ternary Ag2Sî—,As2S3î—,HgI2 vitreous system. Journal of Solid State Chemistry, 2013, 199, 264-270. | 1.4 | 3 |
| 71 | Continuous Monitoring of Formaldehyde Photolysis Products by THz Spectroscopy. IEEE Sensors Journal, 2015, 15, 6141-6146. | 2.4 | 3 |
| 72 | Anomalous small-angle X-ray scattering of a femtosecond irradiated germano silicate fibre preform. Journal of Non-Crystalline Solids, 2005, 351, 2200-2204. | 1.5 | 2 |

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| 73 | A compact CW-THz spectrometer for applications to gas phase identification and quantification of multiple species. , 2007, , . | | 2 |
| 74 | TEM-horn antennas for generation and detection of terahertz pulses. , 2007, , . | | 2 |
| 75 | Molecules probed with a slow chirped-pulse excitation: Analytical model of the free-induction-decay signal. Physical Review A, 2019, 100, . | 1.0 | 2 |
| 76 | Broadband Super-Resolution Terahertz Time-Domain Spectroscopy Applied to Gas Analysis. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 75-80. | 2.0 | 2 |
| 77 | THz analysis of mainstream cigarette smoke. , 2006, , . | | 1 |
| 78 | Integrated Horn Antenna for THz Photomixing in LTG-GaAs. , 2008, , . | | 1 |
| 79 | Long path length cw-THz spectrometer using a multipass cell. , 2008, , . | | 1 |
| 80 | THz photomixing: Comparison between horn and spiral antennas. , 2009, , . | | 1 |
| 81 | High efficiency optoelectronic terahertz sources. , 2010, , . | | 1 |
| 82 | Pollutants monitoring in the sub - THz frequency domain. , 2012, , . | | 1 |
| 83 | Gapless THz comb spectroscopy. , 2013, , . | | 1 |
| 84 | Spoilage of Salmon fillets as observed by THz waves. , 2019, , . | | 1 |
| 85 | Super resolution of a 400 MHz rotational line doublet with a TDS using a 850 ps long delay line. , 2021, , . | | 1 |
| 86 | Super resolution spectroscopy for THz-TDS: Application to Gas spectroscopy. , 2020, , . | | 1 |
| 87 | MULTICHARME: a modified Chernin-type multi-pass cell designed for IR and THz long-path absorption measurements in the CHARME atmospheric simulation chamber. Atmospheric Measurement Techniques, 2022, 15, 1201-1215. | 1.2 | 1 |
| 88 | All-optoelectronic solutions for process tomography. , 0, , . | | 0 |
| 89 | UV laser-diode fluorescence fibre-sensor for commercial gasolines. , 0, , . | | Ο |
| 90 | Generation and coherent detection of terahertz radiation by photomixing: dielectric media | | 0 |

characterization., 0,,.

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| 91 | La corrélation à filtre de gaz dans le domaine submillimétrique. European Physical Journal Special Topics, 2006, 135, 91-92. | 0.2 | 0 |
| 92 | Frequency measurement in THz domain by using femtosecond laser frequency comb. , 2008, , . | | 0 |
| 93 | Silicon substrate low-temperature-grown GaAs terahertz photomixers. , 2009, , . | | 0 |
| 94 | Frequency metrology of a photomixing source for gas phase spectroscopy. Proceedings of SPIE, 2010, , | 0.8 | 0 |
| 95 | Continuous-wave terahertz generation using a vertically integrated horn antenna photomixer. , 2010, , . | | 0 |
| 96 | THz synthesizer for high resolution spectroscopy. , 2010, , . | | 0 |
| 97 | Frequency metrology of a cw-THz photomixing source. , 2011, , . | | 0 |
| 98 | Large tuning range THz synthesiser by means of photomixing. , 2011, , . | | 0 |
| 99 | Detection and analysis of OH and SH radicals by using THz photomixing synthesizer. , 2011, , . | | 0 |
| 100 | Milliwatt-level power generated in the sub-terahertz range by photomixing in a metal-metal resonant cavity GaAs photoconductor. , 2012, , . | | 0 |
| 101 | THz spectroscopy of radicals by means of photomixing experiment. , 2013, , . | | 0 |
| 102 | Spectrally Interleaved, Comb-Mode-Resolved, Dual-Terahertz-Comb Spectroscopy. , 2014, , . | | 0 |
| 103 | Frequency comb for THz metrology and spectroscopy. EPJ Web of Conferences, 2018, 195, 02014. | 0.1 | 0 |
| 104 | Modelisation of a gas phase polarization induced by a 200 GHz chirped pulse. EPJ Web of Conferences, 2018, 195, 06001. | 0.1 | 0 |
| 105 | Enlarging the Frontiers of Research in the IR/mm Range Using Synchrotron Radiation. , 2019, , . | | 0 |
| 106 | Free Induction Decay signals stimulated by photomixing. , 2019, , . | | 0 |
| 107 | Cavity based high resolution THz spectrometer. , 2021, , . | | 0 |
| 108 | Continuous-wave lines up to 5.5 THz from the ammonia laser pumped by a quantum cascade laser. , 2020, , . | | 0 |