

Sophie Eliet

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Broadband Super-Resolution Terahertz Time-Domain Spectroscopy Applied to Gas Analysis. IEEE Transactions on Terahertz Science and Technology, 2022, 12, 75-80.	3.1	2
2	Optically Pumped Terahertz Molecular Laser: Gain Factor and Validation up to 5.5 THz. Advanced Photonics Research, 2022, 3, .	3.6	9
3	Unlocking synchrotron sources for THz spectroscopy at sub-MHz resolution. Optics Express, 2022, 30, 7372.	3.4	4
4	Imaging of THz Photonic Modes by Scattering Scanning Near-Field Optical Microscopy. ACS Applied Materials & Interfaces, 2022, 14, 32608-32617.	8.0	13
5	THz s-SNOM Imaging Of Logarithmic Spiral Antennas. , 2021, , .		2
6	Complex refractive indices in the TeraHertz domain of samples from atmospheric aerosol sources. , 2021, , .		1
7	Super resolution of a 400 MHz rotational line doublet with a TDS using a 850 ps long delay line. , 2021, , .		1
8	Beyond the "Dynamic range" approach In noise evaluation for Terahertz Time domain spectrometers. , 2021, , .		4
9	Continuous-wave lines up to 5.5 THz from the ammonia laser pumped by a quantum cascade laser. , 2020, , .		0
10	s-SNOM imaging of a THz photonic mode. , 2020, , .		4
11	Enlarging the Frontiers of Research in the IR/mm Range Using Synchrotron Radiation. , 2019, , .		0
12	Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at sub-megahertz resolution. , 2019, , .		0
13	Frequency Noise and Phase-Locking of a Quantum Cascade Laser-Pumped, 1.073 Terahertz Molecular Laser using a 1560nm Frequency Comb. , 2019, , .		0
14	Terahertz near-field imaging using batch-fabricated cantilevers with 70 μ m long tips. , 2019, , .		3
15	Mid-IR s-SNOM imaging of photo-induced refractive index variation in chalcogenide glass. , 2019, , .		0
16	Micro-Electro-Mechanical-Systems advances for measurements at small scales: the vertical silicon probes technology extended to nearfield optics. , 2019, , .		0
17	THz-TDS Time-Trace Analysis for the Extraction of Material and Metamaterial Parameters. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 136-149.	3.1	47
18	Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at megahertz resolution. Optics Letters, 2019, 44, 4985.	3.3	8

#	ARTICLE	IF	CITATIONS
19	Transport mechanisms in a puckered graphene-on-lattice. <i>Nanoscale</i> , 2018, 10, 7519-7525.	5.6	4
20	Frequency noise power spectral density of a molecular THz-laser using a fs- fibre laser comb with 1 GHz repetition rate. , 2018, , .		1
21	Electromagnetic Modeling in Near-Field Scanning Microwave Microscopy Highlighting Limitations in Spatial and Electrical Resolutions. , 2018, , .		0
22	High-resolution THz gain measurements in optically pumped ammonia. <i>Optics Express</i> , 2018, 26, 21242.	3.4	8
23	Modeling and parameter retrieving in time domain spectroscopy of material and metamaterial. , 2018, , .		4
24	Nano-probing station incorporating MEMS probes for 1D device RF on-wafer characterization. , 2017, , .		2
25	Combined scanning microwave and electron microscopy: A novel toolbox for hybrid nanoscale material analysis. , 2017, , .		4
26	Scanning electron microscopy-energy dispersive X-ray spectrometry (SEM-EDX) and aerosol time-of-flight mass spectrometry (ATOFMS) single particle analysis of metallurgy plant emissions. <i>Environmental Pollution</i> , 2016, 210, 9-17.	7.5	24
27	Continuous Monitoring of Formaldehyde Photolysis Products by THz Spectroscopy. <i>IEEE Sensors Journal</i> , 2015, 15, 6141-6146.	4.7	3
28	Analysis of self-broadened pure rotational and rovibrational lines of methyl chloride at room temperature. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2013, 116, 87-100.	2.3	35
29	Versatile Sub-THz Spectrometer for Trace Gas Analysis. <i>IEEE Sensors Journal</i> , 2013, 13, 133-138.	4.7	28
30	High resolution far infrared laboratory spectroscopy of transient species: application to the SO radical ($X^{3\Sigma^-}$). <i>EAS Publications Series</i> , 2012, 58, 279-282.	0.3	1
31	Rotational spectrum of formaldehyde reinvestigated using a photomixing THz synthesizer. <i>Journal of Molecular Spectroscopy</i> , 2012, 279, 12-15.	1.2	9
32	New investigation on THz spectra of OH and SH radicals ($X^{2\Sigma^-}$). <i>Journal of Molecular Spectroscopy</i> , 2012, 279, 12-15.	2.6	22
33	Chemical Physics Letters, 2012, 550, 8-14. Experimental studies by complementary terahertz techniques and semi-classical calculations of N ₂ -broadening coefficients of CH ₃ Cl. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2012, 113, 1113-1126.	2.3	27
34	Theoretical and experimental studies of CH ₃ Cl rotational line shapes for atmospheric spectra modelling: application to room-temperature CH ₃ Cl-O ₂ . <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 20326.	2.8	39
35	Large tuning range THz synthesiser by means of photomixing. , 2011, , .		0
36	Detection and analysis of OH and SH radicals by using THz photomixing synthesizer. , 2011, , .		0

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37	Doppler limited rotational transitions of OH and SH radicals measured by continuous-wave terahertz photomixing. <i>Journal of Molecular Structure</i> , 2011, 1006, 13-19.	3.6	12
38	Widely tunable THz synthesizer. <i>Applied Physics B: Lasers and Optics</i> , 2011, 104, 763-768.	2.2	32