

# Sophie Eliet

## List of Publications by Year in descending order

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38  
papers

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citations

1040056

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839539

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all docs

39  
docs citations

39  
times ranked

343  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Theoretical and experimental studies of CH <sub>3</sub> X <sup>Y</sup> rotational line shapes for atmospheric spectra modelling: application to room-temperature CH <sub>3</sub> Cl <sup>O</sup> . Physical Chemistry Chemical Physics, 2011, 13, 20326.	2.8	39
3	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.	2.3	35
4	Widely tunable THz synthesizer. Applied Physics B: Lasers and Optics, 2011, 104, 763-768.	2.2	32
5	Versatile Sub-THz Spectrometer for Trace Gas Analysis. IEEE Sensors Journal, 2013, 13, 133-138.	4.7	28
6	Experimental studies by complementary terahertz techniques and semi-classical calculations of N <sub>2</sub> -broadening coefficients of CH <sub>3</sub> Cl. Journal of Quantitative Spectroscopy and Radiative Transfer, 2012, 113, 1113-1126.	2.3	27
7	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. Environmental Pollution, 2016, 210, 9-17.	7.5	24
8	New investigation on THz spectra of OH and SH radicals (X<math>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 477 Td (xmlns:mml="http:)</math>). Chemical Physics Letters, 2012, 550, 8-14.	2.6	22
9	Imaging of THz Photonic Modes by Scattering Scanning Near-Field Optical Microscopy. ACS Applied Materials & Interfaces, 2022, 14, 32608-32617.	8.0	13
10	Doppler limited rotational transitions of OH and SH radicals measured by continuous-wave terahertz photomixing. Journal of Molecular Structure, 2011, 1006, 13-19.	3.6	12
11	Rotational spectrum of formaldehyde reinvestigated using a photomixing THz synthesizer. Journal of Molecular Spectroscopy, 2012, 279, 12-15.	1.2	9
12	Optically Pumped Terahertz Molecular Laser: Gain Factor and Validation up to 5.5%THz. Advanced Photonics Research, 2022, 3, .	3.6	9
13	High-resolution THz gain measurements in optically pumped ammonia. Optics Express, 2018, 26, 21242.	3.4	8
14	Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at megahertz resolution. Optics Letters, 2019, 44, 4985.	3.3	8
15	Combined scanning microwave and electron microscopy: A novel toolbox for hybrid nanoscale material analysis. , 2017, , .		4
16	Transport mechanisms in a puckered graphene-on-lattice. Nanoscale, 2018, 10, 7519-7525.	5.6	4
17	Beyond the "Dynamic range" approach In noise evaluation for Terahertz Time domain spectrometers. , 2021, , .		4
18	Modeling and parameter retrieving in time domain spectroscopy of material and metamaterial. , 2018, , .		4

#	ARTICLE	IF	CITATIONS
19	s-SNOM imaging of a THz photonic mode. , 2020, , .		4
20	Unlocking synchrotron sources for THz spectroscopy at sub-MHz resolution. Optics Express, 2022, 30, 7372.	3.4	4
21	Continuous Monitoring of Formaldehyde Photolysis Products by THz Spectroscopy. IEEE Sensors Journal, 2015, 15, 6141-6146.	4.7	3
22	Terahertz near-field imaging using batch-fabricated cantilevers with 70 $\hat{1}$ / <sub>4</sub> m long tips. , 2019, , .		3
23	Nano-probing station incorporating MEMS probes for 1D device RF on-wafer characterization. , 2017, , .		2
24	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
25	THz s-SNOM Imaging Of Logarithmic Spiral Antennas. , 2021, , .		2
26	High resolution far infrared laboratory spectroscopy of transient species: application to the SO radical ( $X_{3<sup>3</sup>}$ ). EAS Publications Series, 2012, 58, 279-282.	0.3	1
27	Frequency noise power spectral density of a molecular THz-laser using a fs-fibre laser comb with 1 GHz repetition rate. , 2018, , .		1
28	Complex refractive indices in the TeraHertz domain of samples from atmospheric aerosol sources. , 2021, , .		1
29	Super resolution of a 400 MHz rotational line doublet with a TDS using a 850 ps long delay line. , 2021, , .		1
30	Large tuning range THz synthesiser by means of photomixing. , 2011, , .		0
31	Detection and analysis of OH and SH radicals by using THz photomixing synthesizer. , 2011, , .		0
32	Electromagnetic Modeling in Near-Field Scanning Microwave Microscopy Highlighting Limitations in Spatial and Electrical Resolutions. , 2018, , .		0
33	Enlarging the Frontiers of Research in the IR/mm Range Using Synchrotron Radiation. , 2019, , .		0
34	Broadband terahertz heterodyne spectrometer exploiting synchrotron radiation at sub-megahertz resolution. , 2019, , .		0
35	Frequency Noise and Phase-Locking of a Quantum Cascade Laser-Pumped, 1.073 Terahertz Molecular Laser using a 1560nm Frequency Comb. , 2019, , .		0
36	Mid-IR s-SNOM imaging of photo-induced refractive index variation in chalcogenide glass. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
37	Micro-Electro-Mechanical-Systems advances for measurements at small scales: the vertical silicon probes technology extended to nearfield optics. , 2019, , .		0
38	Continuous-wave lines up to 5.5 THz from the ammonia laser pumped by a quantum cascade laser. , 2020, , .		0