Mira Naftaly

List of Publications by Year
in descending order

134 papers	4,694 citations	185998 28 h-index	102304 66 g-index
135 all docs	135 docs citations	135 times ranked	4752 citing authors

#	Article	IF	Citations
1	Non-Destructive Porosity Measurements of 3D Printed Polymer by Terahertz Time-Domain Spectroscopy. Applied Sciences (Switzerland), 2022, 12, 927.	1.3	3
2	Polymer Pellet Fabrication for Accurate THz-TDS Measurements. Applied Sciences (Switzerland), 2022, 12, 3475.	1.3	8
3	Terahertz response of Er3+/Yb3+ co-doped La2Zr2O7 synthesized using the sol-gel precipitation method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 644, 128836.	2.3	0
4	An Overview of Terahertz Imaging with Resonant Tunneling Diodes. Applied Sciences (Switzerland), 2022, 12, 3822.	1.3	9
5	Effect of Microsphere Concentration and Size in Compacts on Terahertz Scattering. , 2022, , .		0
6	Effect of Gallium and Boron doping on dielectric and conductivity properties of ZnO sintered from nanoparticles of different morphology in THz region. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2021, 611, 125896.	2.3	0
7	ZnO nanoparticles as photodegradation agent controlled by morphology and boron doping. Catalysis Science and Technology, 2021, 11, 2167-2185.	2.1	13
8	Refractive Indices of Ge and Si at Temperatures between 4â€“296 K in the 4â€“8 THz Region. Applied Sciences (Switzerland), 2021, 11, 487.	1.3	3
9	Sheet Resistance Measurements of Conductive Thin Films: A Comparison of Techniques. Electronics (Switzerland), 2021, 10, 960.	1.8	45
10	Pilot-Tone Assisted 16-QAM Photonic Wireless Bridge Operating At 250 GHz. Journal of Lightwave Technology, 2021, 39, 2725-2736.	2.7	10
11	Terahertz and Microwave Optical Properties of Single-Crystal Quartz and Vitreous Silica and the Behavior of the Boson Peak. Applied Sciences (Switzerland), 2021, 11, 6733.	1.3	31
12	Beam Profile Characterisation of an Optoelectronic Silicon Lens-Integrated PIN-PD Emitter between 100 GHz and 1 THz. Applied Sciences (Switzerland), 2021, 11, 465.	1.3	11
13	Material Measurements Using VNA-Based Material Characterization Kits Subject to Thru-Reflect-Line Calibration. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 466-473.	2.0	21
14	Measuring Open Porosity of Porous Materials Using THz-TDS and an Index-Matching Medium. Sensors, 2020, 20, 3120.	2.1	19
15	Industrial Applications of Terahertz Sensing: State of Play. Sensors, 2019, 19, 4203.	2.1	191
16	Terahertz time-domain spectroscopy as a novel metrology tool for liquid-phase exfoliated few-layer graphene. Nanotechnology, 2019, 30, 025709.	1.3	10
17	Comparison of Optical Single Sideband Techniques for THz-Over-Fiber Systems. IEEE Transactions on Terahertz Science and Technology, 2019, 9, 98-105.	2.0	7
18	Metrology of complex refractive index for solids in the terahertz regime using frequency domain spectroscopy. Metrologia, 2018, 55, 771-781.	0.6	5

#	ARTICLE	IF	CITATIONS
19	A Review of Measurement Capabilities at Millimetre and Submillimetre Wavelengths at the UK's National Physical Laboratory. , 2018, , .		0
20	Single Sideband Signals for Phase Noise Mitigation in Wireless THz-Over-Fibre Systems. Journal of Lightwave Technology, 2018, 36, 4527-4534.	2.7	16
21	Spectrally Efficient SSB signals for W-band Links Enabled by Kramers-Kronig Receiver. , 2018, , .		8
22	Metrology State-of-the-Art and Challenges in Broadband Phase-Sensitive Terahertz Measurements. Proceedings of the IEEE, 2017, 105, 1151-1165.	16.4	24
23	Observation of a different birefringence order at optical and THz frequencies in LBO crystal. Optical Materials, 2017, 66, 94-97.	1.7	13
24	Variability of Terahertz Transmission Measured in Live Plant Leaves. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 636-638.	1.4	20
25	The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.	1.3	1,160
26	Coherent superpositions of three states for phosphorous donors in silicon prepared using THz radiation. Nature Communications, 2017, 8, 16038.	5.8	11
27	Dielectric and structural characterisation of chalcogenide glasses via terahertz time-domain spectroscopy. Optical Materials, 2017, 69, 339-343.	1.7	33
28	Measurement of a phonon resonance in a GaSe crystal using THz free induction decay. Vibrational Spectroscopy, 2017, 92, 169-172.	1.2	4
29	Terahertz time domain detection of imidazolium ionic liquid reactivity in nanohybrid materials based on Kaolinite and Halloysite. Applied Clay Science, 2017, 135, 475-484.	2.6	5
30	Experimental investigation of phase noise tolerance of SSB THz signals. , 2017, , .		1
31	Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach. , 2017, , .		11
32	Device characterization for THz wireless links. , 2017, , .		0
33	THz metrology for active electronic devices: state of the art and challenges. , 2017, , .		0
34	Non-linear coefficients of crystals measured at THz frequencies. , 2016, , .		1
35	An international intercomparison of THz time-domain spectrometers. , 2016, , .		15
36	Intercomparison of Terahertz Dielectric Measurements Using Vector Network Analyzer and Time-Domain Spectrometer. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 691-702.	1.2	17

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37	Dielectric constants of bulk ferroelectric PZT measured by terahertz time-domain spectroscopy. Advances in Applied Ceramics, 2016, 115, 260-263.	0.6	7
38	Comments on â€œOptical properties of borate crystals in the terahertz domainâ€• Optics Communications, 2016, 365, 14-15.	1.0	4
39	Silicon carbideâ€”a high-transparency nonlinear material for THz applications. Optics Express, 2016, 24, 2590.	1.7	43
40	Covalent Carbene Functionalization of Graphene: Toward Chemical Band-Gap Manipulation. ACS Applied Materials & Interfaces, 2016, 8, 4870-4877.	4.0	49
41	Dielectric properties of CaZrO<inf>3</inf> investigated by THz-TDS. , 2015, , .		1
42	Dispersion properties of sulfur doped gallium selenide crystals studied by THz TDS. Optics Express, 2015, 23, 32820.	1.7	9
43	Evolution of GaSe<inf>1−x</inf>S<inf>x</inf> phonon absorption peaks with S-doping studied by THz-TDS. , 2015, , .		0
44	Dispersion equations for the entire transparency range of GaSe. , 2015, , .		1
45	Metrology for terahertz time-domain spectrometers. , 2015, , .		0
46	Dielectric constants of ferroelectric PZT at THz frequencies. , 2015, , .		0
47	A comparison method for THz measurements using VNA and TDS. , 2015, , .		2
48	A multi-lab intercomparison study of THz time-domain spectrometers. , 2015, , .		2
49	Refractivity of water vapor at terahertz frequencies — Comparison of measurements with models. , 2015, , .		0
50	Growth and optical properties of solid solution crystals GaSe1â^'xSx. Materials Chemistry and Physics, 2015, 154, 152-157.	2.0	34
51	LBO: optical properties and potential for THz application. Laser Physics Letters, 2015, 12, 115402.	0.6	14
52	Effect of time-delay errors on THz spectroscopy dynamic range. , 2014, , .		4
53	Identification of textile fiber by IR and Raman spectroscopy. , 2014, , .		2
54	Absorption anisotropy in sulfur doped gallium selenide crystals studied by THz-TDS. Optical Materials Express, 2014, 4, 2451.	1.6	26

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55	Solid solution GaSe<inf>1−x</inf>S<inf>x</inf> crystals for THz applications. , 2014, , .		1
56	Terahertz time-domain spectroscopy response of amines and amino acids intercalated smectites in far-infrared region. Materials Chemistry and Physics, 2014, 145, 278-287.	2.0	14
57	Dispersion properties of GaS studied by THz-TDS. CrystEngComm, 2014, 16, 1995.	1.3	14
58	Fundamentals of Measurement in Terahertz Time-Domain Spectroscopy. Journal of Infrared, Millimeter, and Terahertz Waves, 2014, 35, 610-637.	1.2	193
59	Wool textile identification by terahertz spectroscopy. Journal of the Textile Institute, 2014, 105, 794-798.	1.0	9
60	Dynamic range improvement of THz spectroscopy. , 2014, , .		2
61	THz-TDS of chemically modified natural or synthetic layered clay systems. , 2014, , .		0
62	THz spectroscopy of amines and aminoacids intercalated in clays. , 2014, , .		0
63	Investigation of optical and structural properties of ceramic boron nitride by terahertz time-domain spectroscopy. Applied Optics, 2013, 52, B20.	0.9	8
64	Terahertz characterization of textiles. , 2013, , .		2
65	Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. IEEE Sensors Journal, 2013, 13, 8-17.	2.4	62
66	Determination of renewable energy yield from mixed waste material from the use of novel image analysis methods. Waste Management, 2013, 33, 2449-2456.	3.7	7
67	THz optical constants of liquid crystals BL037 and GT3–23001. , 2013, , .		2
68	Dependence of THz optical constants on orientational alignment of liquid crystals. , 2013, , .		0
69	Terahertz time-domain characterization of various fabrics. , 2013, , .		0
70	Characterization of Terahertz Beam Profile and Propagation. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8401508-8401508.	1.9	25
71	Terahertz time-domain spectroscopy for textile identification. Applied Optics, 2013, 52, 4433.	0.9	23
72	Optical properties and structure of pyrolytic boron nitride for THz applications. Optical Materials Express, 2013, 3, 260.	1.6	3

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73	Orientational dependence of THz optical constants, birefrigence and dichroism of liquid crystals BL037 and GT3-23001. Optical Materials Express, 2013, 3, 459.	1.6	4
74	Investigation of modified GaSe crystal compositions for nonlinear THz applications. , 2013, , .		0
75	Electrical characterisation of liquid crystals at millimetre wavelengths using frequency selective surfaces. Electronics Letters, 2012, 48, 611.	0.5	36
76	Terahertz time-domain spectroscopy characterization of vertically aligned carbon nanotube films. Carbon, 2012, 50, 939-942.	5.4	11
77	Terahertz reflectivities of metal-coated mirrors. Applied Optics, 2011, 50, 3201.	2.1	30
78	Hexagonal boron nitride studied by terahertz time-domain spectroscopy. Journal of Physics: Conference Series, 2011, 310, 012006.	0.3	1
79	A simple fluid cell for the study of aqueous solutions using THz time-domain spectroscopy. Measurement Science and Technology, 2011, 22, 037003.	1.4	3
80	Investigation of ceramic boron nitride by terahertz time-domain spectroscopy. Journal of the European Ceramic Society, 2010, 30, 2691-2697.	2.8	12
81	An etalon-based method for frequency calibration of terahertz time-domain spectrometers (THz TDS). Optics Communications, 2010, 283, 1849-1853.	1.0	14
82	Investigation of Hexagonal Boron Nitride by Terahertz Time-Domain Spectroscopy. , 2010, , .		0
83	Line strengths and self-broadening of pure rotational lines of carbon monoxide measured by terahertz time-domain spectroscopy. Applied Optics, 2010, 49, 2490.	2.1	10
84	Line strengths and self-broadening of pure rotational lines of nitrous oxide measured by terahertz time-domain spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1717.	0.9	12
85	On competition between two types of anti-Stokes emission in Ho3+ and Nd3+ ions in glasses. Journal of Non-Crystalline Solids, 2010, 356, 435-440.	1.5	12
86	Frequency calibration of THz time-domain spectrometers using an etalon. , 2009, , .		0
87	Excited state absorption spectroscopy of Nd3+ activated fluoroaluminate glass â€“ experiment and simulation. Optical Materials, 2009, 31, 541-547.	1.7	8
88	Low loss nitride ceramics for terahertz windows. Optical Materials, 2009, 31, 1575-1577.	1.7	10
89	Linearity calibration of amplitude and power measurements in terahertz systems and detectors. Optics Letters, 2009, 34, 674.	1.7	40
90	Methodologies for determining the dynamic ranges and signal-to-noise ratios of terahertz time-domain spectrometers. Optics Letters, 2009, 34, 1213.	1.7	148

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91	Frequency calibration of terahertz time-domain spectrometers. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1357.	0.9	18
92	A Simple Interferometer for the Analysis of Terahertz Sources and Detectors. IEEE Journal of Selected Topics in Quantum Electronics, 2008, 14, 443-448.	1.9	13
93	Linearity of terahertz time-domain spectrometers. Electronics Letters, 2008, 44, 854.	0.5	2
94	Linearity of terahertz time-domain spectrometers.. , 2008, , .		0
95	Broadband Dielectric Characterization of Aluminum Oxide (Al2O3). Journal of Microelectronics and Electronic Packaging, 2008, 5, 2-7.	0.8	60
96	Terahertz transmission through periodic arrays of dielectric and conducting spheres. , 2007, , .		0
97	Terahertz time-domain spectroscopy of silicate glasses and the relationship to material properties. Journal of Applied Physics, 2007, 102, .	1.1	170
98	A simple interferometer for the characterization of sources at terahertz frequencies. Measurement Science and Technology, 2007, 18, 2623-2628.	1.4	24
99	Terahertz Time-Domain Spectroscopy for Material Characterization. Proceedings of the IEEE, 2007, 95, 1658-1665.	16.4	396
100	A method for removing etalon oscillations from THz time-domain spectra. Optics Communications, 2007, 280, 291-295.	1.0	46
101	Polymerisation-related changes in THz transmission in SU8 and polystyrene. , 2006, , .		0
102	Upconverted luminescence under 800nm laser diode excitation in Nd3+-activated fluoroaluminate glass. Optical Materials, 2006, 28, 129-136.	1.7	42
103	Influence of the oxygen-affected sites on decay times in Pr3+â€"activated fluoroaluminate glass. Journal of Luminescence, 2006, 116, 94-100.	1.5	8
104	A Sensitive Broadband Detector for Room-Temperature Operation of a Simple Terahertz Fourier-Transform Spectrometer. , 2006, , .		3
105	The investigation of sooty flames using terahertz waves. Flow Measurement and Instrumentation, 2005, 16, 341-345.	1.0	14
106	Generation of Submillimeter-Wave Radiation with GaAs Tunnett Diodes and InP Gunn Devices in a Second or Higher Harmonic Mode. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 1-14.	0.6	19
107	Terahertz Transmission Spectroscopy of Nonpolar Materials and Relationship with Composition and Properties. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 55-64.	0.6	82
108	Terahertz time-domain spectroscopy: A new tool for the study of glasses in the far infrared. Journal of Non-Crystalline Solids, 2005, 351, 3341-3346.	1.5	103

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109	Generation of continuous-wave terahertz radiation using a two-mode titanium sapphire laser containing an intracavity Fabryâ€“Perot etalon. Journal of Applied Physics, 2005, 97, 103108.	1.1	15
110	Generation of CW terahertz radiation using two-colour laser with Fabry-Perot etalon. Electronics Letters, 2005, 41, 128.	0.5	14
111	Electrical and Radiation Characteristics of Semilarge Photoconductive Terahertz Emitters. IEEE Transactions on Microwave Theory and Techniques, 2004, 52, 2420-2429.	2.9	49
112	Optical spectroscopy and multiple-line gain in Pr3+-activated fluoroaluminate glass. Journal of Physics Condensed Matter, 2002, 14, 6785-6799.	0.7	5
113	Tungstenâ€“telluriteâ€”a host glass for broadband EDFA. Optics Communications, 2002, 205, 101-105.	1.0	90
114	Tellurite Glasses for Broadband Amplifiers and Integrated Optics. Journal of the American Ceramic Society, 2002, 85, 1391-1395.	1.9	135
115	Spectroscopic evidence for oxide dopant sites in GeS2-based glasses using visible photoluminescence from Pr3+ probe ions. Journal of Luminescence, 2002, 96, 227-238.	1.5	8
116	Pr3+-doped fluoride glass for a 589nm fibre laser. Journal of Luminescence, 2000, 91, 133-138.	1.5	18
117	Nd3+-doped fluoroaluminate glasses for a 1.3 Î¼m amplifier. Journal of Applied Physics, 2000, 87, 2098-2104.	1.1	104
118	Tm^3+-doped tellurite glass for a broadband amplifier at 147 Âµm. Applied Optics, 2000, 39, 4979.	2.1	115
119	Structural origin of spectral broadening of 1.5-Î¼m emission inEr3+-doped tellurite glasses. Physical Review B, 2000, 62, 6215-6227.	1.1	262
120	Effects of the site symmetry and host polarizability on the hypersensitive transition 3P0â†'3F2 of Pr3+ in fluoride glasses. Journal of Applied Physics, 1999, 86, 351-354.	1.1	31
121	An interpretation of the Boson peak in rare-earth ion doped glasses. Journal of Non-Crystalline Solids, 1999, 256-257, 89-94.	1.5	35
122	Spectroscopic properties of Nd3+ in fluoroaluminate glasses for an efficient 1.3 Î¼m optical amplifier. Journal of Non-Crystalline Solids, 1999, 256-257, 248-252.	1.5	16
123	1.3 Î¼m Fluorescence quenching in Pr-doped glasses. Journal of Applied Physics, 1998, 84, 1800-1804.	1.1	16
124	1310- to 1320-nm emission in Nd3+-ion-doped fluoroaluminate glasses. , 1998, , .		0
125	Viscosity measurement in halide melts. Journal of Non-Crystalline Solids, 1997, 213-214, 106-112.	1.5	8
126	A review of optical and thermal properties of cadmium-mixed halide glass host for the 1.3 Î¼m Pr3+-doped amplifier. Journal of Non-Crystalline Solids, 1996, 196, 199-203.	1.5	6

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127	Cadmium mixed halide glass for optical amplification at 1.3 Î¼m. Journal of Non-Crystalline Solids, 1995, 184, 61-67.	1.5	16
128	Effects of impurities in cadmium halide glasses for 1.3 Î¼m amplifier. Journal of Non-Crystalline Solids, 1995, 184, 263-267.	1.5	6
129	Properties of a matched halide glass pair for the fabrication of large numerical aperture core-cladding preform structures. Journal of Non-Crystalline Solids, 1995, 184, 268-272.	1.5	4
130	Design and fabrication of Pr3+-doped fluoride glass optical fibres for efficient 1.3 mu m amplifiers. Journal of Optics, 1995, 4, 417-424.	0.5	13
131	Photochromism of spiro-naphthoxazines : molar absorption coefficients and quantum efficiencies. Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1511.	1.7	75
132	Observation of mode pulling in a CO_2 laser. Applied Optics, 1984, 23, 661.	2.1	11
133	Demonstration of CW THz generation using a two-color Ti-sapphire laser containing a Fabry-Perot etalon. , 0, , .		1
134	Characteristics of large-aperture photoconductive terahertz antennas. , 0, , .		2