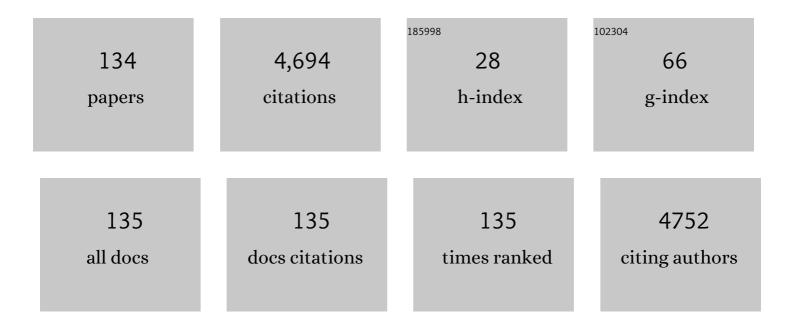
## Mira Naftaly

List of Publications by Year in descending order

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Μίρα Νλετλιν

| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | The 2017 terahertz science and technology roadmap. Journal Physics D: Applied Physics, 2017, 50, 043001.  | 1.3  | 1,160     |
| 2  | Terahertz Time-Domain Spectroscopy for Material Characterization. Proceedings of the IEEE, 2007, 95, 1658-1665.   | 16.4 | 396       |
| 3  | Structural origin of spectral broadening of 1.5-μm emission inEr3+-doped tellurite glasses. Physical<br>Review B, 2000, 62, 6215-6227.  | 1.1  | 262       |
| 4  | Fundamentals of Measurement in Terahertz Time-Domain Spectroscopy. Journal of Infrared,<br>Millimeter, and Terahertz Waves, 2014, 35, 610-637.                                    | 1.2  | 193       |
| 5  | Industrial Applications of Terahertz Sensing: State of Play. Sensors, 2019, 19, 4203.   | 2.1  | 191       |
| 6  | Terahertz time-domain spectroscopy of silicate glasses and the relationship to material properties.<br>Journal of Applied Physics, 2007, 102, .                                   | 1.1  | 170       |
| 7  | Methodologies for determining the dynamic ranges and signal-to-noise ratios of terahertz time-domain spectrometers. Optics Letters, 2009, 34, 1213.                               | 1.7  | 148       |
| 8  | Tellurite Glasses for Broadband Amplifiers and Integrated Optics. Journal of the American Ceramic Society, 2002, 85, 1391-1395.   | 1.9  | 135       |
| 9  | Tm^3+-doped tellurite glass for a broadband amplifier at 147 µm. Applied Optics, 2000, 39, 4979.  | 2.1  | 115       |
| 10 | Nd3+-doped fluoroaluminate glasses for a 1.3 μm amplifier. Journal of Applied Physics, 2000, 87, 2098-2104.   | 1.1  | 104       |
| 11 | 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       |
| 12 | Tungsten–tellurite—a host glass for broadband EDFA. Optics Communications, 2002, 205, 101-105.  | 1.0  | 90        |
| 13 | 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        |
| 14 | Photochromism of spiro-naphthoxazines : molar absorption coefficients and quantum efficiencies.<br>Journal of the Chemical Society, Faraday Transactions, 1992, 88, 1511.         | 1.7  | 75        |
| 15 | Metrology Issues and Solutions in THz Time-Domain Spectroscopy: Noise, Errors, Calibration. IEEE<br>Sensors Journal, 2013, 13, 8-17.  | 2.4  | 62        |
| 16 | Broadband Dielectric Characterization of Aluminum Oxide (Al2O3). Journal of Microelectronics and Electronic Packaging, 2008, 5, 2-7.  | 0.8  | 60        |
| 17 | Electrical and Radiation Characteristics of Semilarge Photoconductive Terahertz Emitters. IEEE<br>Transactions on Microwave Theory and Techniques, 2004, 52, 2420-2429.           | 2.9  | 49        |
| 18 | Covalent Carbene Functionalization of Graphene: Toward Chemical Band-Gap Manipulation. ACS<br>Applied Materials & Interfaces, 2016, 8, 4870-4877.                                 | 4.0  | 49        |

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| #  | Article   | IF   | CITATIONS |
|----|---|------|-----------|
| 19 | A method for removing etalon oscillations from THz time-domain spectra. Optics Communications, 2007, 280, 291-295.  | 1.0  | 46        |
| 20 | Sheet Resistance Measurements of Conductive Thin Films: A Comparison of Techniques. Electronics (Switzerland), 2021, 10, 960.   | 1.8  | 45        |
| 21 | Silicon carbide—a high-transparency nonlinear material for THz applications. Optics Express, 2016, 24, 2590.  | 1.7  | 43        |
| 22 | Upconverted luminescence under 800nm laser diode excitation in Nd3+-activated fluoroaluminate glass. Optical Materials, 2006, 28, 129-136.  | 1.7  | 42        |
| 23 | Linearity calibration of amplitude and power measurements in terahertz systems and detectors. Optics<br>Letters, 2009, 34, 674.   | 1.7  | 40        |
| 24 | Electrical characterisation of liquid crystals at millimetre wavelengths using frequency selective surfaces. Electronics Letters, 2012, 48, 611.  | 0.5  | 36        |
| 25 | An interpretation of the Boson peak in rare-earth ion doped glasses. Journal of Non-Crystalline<br>Solids, 1999, 256-257, 89-94.  | 1.5  | 35        |
| 26 | Growth and optical properties of solid solution crystals GaSe1â^'xSx. Materials Chemistry and Physics,<br>2015, 154, 152-157.   | 2.0  | 34        |
| 27 | Dielectric and structural characterisation of chalcogenide glasses via terahertz time-domain spectroscopy. Optical Materials, 2017, 69, 339-343.  | 1.7  | 33        |
| 28 | Effects of the site symmetry and host polarizability on the hypersensitive transition 3P0→3F2 of Pr3+ in<br>fluoride glasses. Journal of Applied Physics, 1999, 86, 351-354.                | 1.1  | 31        |
| 29 | 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        |
| 30 | Terahertz reflectivities of metal-coated mirrors. Applied Optics, 2011, 50, 3201.   | 2.1  | 30        |
| 31 | Absorption anisotropy in sulfur doped gallium selenide crystals studied by THz-TDS. Optical Materials<br>Express, 2014, 4, 2451.  | 1.6  | 26        |
| 32 | Characterization of Terahertz Beam Profile and Propagation. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8401508-8401508.  | 1.9  | 25        |
| 33 | A simple interferometer for the characterization of sources at terahertz frequencies. Measurement<br>Science and Technology, 2007, 18, 2623-2628.   | 1.4  | 24        |
| 34 | Metrology State-of-the-Art and Challenges in Broadband Phase-Sensitive Terahertz Measurements.<br>Proceedings of the IEEE, 2017, 105, 1151-1165.  | 16.4 | 24        |
| 35 | Terahertz time-domain spectroscopy for textile identification. Applied Optics, 2013, 52, 4433.  | 0.9  | 23        |
| 36 | Material Measurements Using VNA-Based Material Characterization Kits Subject to Thru-Reflect-Line<br>Calibration. IEEE Transactions on Terahertz Science and Technology, 2020, 10, 466-473. | 2.0  | 21        |

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|----|---|-----|-----------|
| 37 | Variability of Terahertz Transmission Measured in Live Plant Leaves. IEEE Geoscience and Remote<br>Sensing Letters, 2017, 14, 636-638.  | 1.4 | 20        |
| 38 | Generation of Submillimeter-Wave Radiation with GaAs Tunnett Diodes and InP Gunn Devices in a<br>Second or Higher Harmonic Mode. Journal of Infrared, Millimeter and Terahertz Waves, 2005, 26, 1-14. | 0.6 | 19        |
| 39 | Measuring Open Porosity of Porous Materials Using THz-TDS and an Index-Matching Medium. Sensors, 2020, 20, 3120.  | 2.1 | 19        |
| 40 | Pr3+-doped fluoride glass for a 589nm fibre laser. Journal of Luminescence, 2000, 91, 133-138.  | 1.5 | 18        |
| 41 | Frequency calibration of terahertz time-domain spectrometers. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 1357.   | 0.9 | 18        |
| 42 | Intercomparison of Terahertz Dielectric Measurements Using Vector Network Analyzer and<br>Time-Domain Spectrometer. Journal of Infrared, Millimeter, and Terahertz Waves, 2016, 37, 691-702.          | 1.2 | 17        |
| 43 | Cadmium mixed halide glass for optical amplification at 1.3 μm. Journal of Non-Crystalline Solids, 1995, 184, 61-67.  | 1.5 | 16        |
| 44 | 1.3 μm Fluorescence quenching in Pr-doped glasses. Journal of Applied Physics, 1998, 84, 1800-1804.   | 1.1 | 16        |
| 45 | Spectroscopic properties of Nd3+ in fluoroaluminate glasses for an efficient 1.3 μm optical amplifier.<br>Journal of Non-Crystalline Solids, 1999, 256-257, 248-252.                                  | 1.5 | 16        |
| 46 | Single Sideband Signals for Phase Noise Mitigation in Wireless THz-Over-Fibre Systems. Journal of<br>Lightwave Technology, 2018, 36, 4527-4534.   | 2.7 | 16        |
| 47 | Generation of continuous-wave terahertz radiation using a two-mode titanium sapphire laser containing an intracavity Fabry–Perot etalon. Journal of Applied Physics, 2005, 97, 103108.                | 1.1 | 15        |
| 48 | An international intercomparison of THz time-domain spectrometers. , 2016, , .  |     | 15        |
| 49 | The investigation of sooty flames using terahertz waves. Flow Measurement and Instrumentation, 2005, 16, 341-345.   | 1.0 | 14        |
| 50 | An etalon-based method for frequency calibration of terahertz time-domain spectrometers (THz TDS).<br>Optics Communications, 2010, 283, 1849-1853.  | 1.0 | 14        |
| 51 | 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        |
| 52 | Dispersion properties of GaS studied by THz-TDS. CrystEngComm, 2014, 16, 1995.  | 1.3 | 14        |
| 53 | LBO: optical properties and potential for THz application. Laser Physics Letters, 2015, 12, 115402.   | 0.6 | 14        |
| 54 | Generation of CW terahertz radiation using two-colour laser with Fabry-Perot etalon. Electronics<br>Letters, 2005, 41, 128.   | 0.5 | 14        |

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| #  | Article   | IF  | CITATIONS |
|----|---|-----|-----------|
| 55 | Design and fabrication of Pr3+-doped fluoride glass optical fibres for efficient 1.3 mu m amplifiers.<br>Journal of Optics, 1995, 4, 417-424.   | 0.5 | 13        |
| 56 | 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        |
| 57 | Observation of a different birefringence order at optical and THz frequencies in LBO crystal. Optical<br>Materials, 2017, 66, 94-97.  | 1.7 | 13        |
| 58 | ZnO nanoparticles as photodegradation agent controlled by morphology and boron doping. Catalysis Science and Technology, 2021, 11, 2167-2185.   | 2.1 | 13        |
| 59 | Investigation of ceramic boron nitride by terahertz time-domain spectroscopy. Journal of the<br>European Ceramic Society, 2010, 30, 2691-2697.  | 2.8 | 12        |
| 60 | Line strengths and self-broadening of pure rotational lines of nitrous oxide measured by terahertz<br>time-domain spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2010, 27, 1717. | 0.9 | 12        |
| 61 | On competition between two types of anti-Stokes emission in Ho3+ and Nd3+ ions in glasses. Journal of<br>Non-Crystalline Solids, 2010, 356, 435-440.  | 1.5 | 12        |
| 62 | Observation of mode pulling in a CO_2 laser. Applied Optics, 1984, 23, 661.   | 2.1 | 11        |
| 63 | Terahertz time-domain spectroscopy characterization of vertically aligned carbon nanotube films.<br>Carbon, 2012, 50, 939-942.  | 5.4 | 11        |
| 64 | Coherent superpositions of three states for phosphorous donors in silicon prepared using THz radiation. Nature Communications, 2017, 8, 16038.  | 5.8 | 11        |
| 65 | Building an end user focused THz based ultra high bandwidth wireless access network: The TERAPOD approach. , 2017, , .  |     | 11        |
| 66 | 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        |
| 67 | Low loss nitride ceramics for terahertz windows. Optical Materials, 2009, 31, 1575-1577.  | 1.7 | 10        |
| 68 | 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        |
| 69 | Terahertz time-domain spectroscopy as a novel metrology tool for liquid-phase exfoliated few-layer graphene. Nanotechnology, 2019, 30, 025709.  | 1.3 | 10        |
| 70 | Pilot-Tone Assisted 16-QAM Photonic Wireless Bridge Operating At 250 GHz. Journal of Lightwave Technology, 2021, 39, 2725-2736.   | 2.7 | 10        |
| 71 | Wool textile identification by terahertz spectroscopy. Journal of the Textile Institute, 2014, 105, 794-798.  | 1.0 | 9         |
| 72 | Dispersion properties of sulfur doped gallium selenide crystals studied by THz TDS. Optics Express, 2015, 23, 32820.  | 1.7 | 9         |

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|----|--|-----|-----------|
| 73 | An Overview of Terahertz Imaging with Resonant Tunneling Diodes. Applied Sciences (Switzerland), 2022, 12, 3822.   | 1.3 | 9         |
| 74 | Viscosity measurement in halide melts. Journal of Non-Crystalline Solids, 1997, 213-214, 106-112.  | 1.5 | 8         |
| 75 | 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         |
| 76 | Influence of the oxygen-affected sites on decay times in Pr3+—activated fluoroaluminate glass.<br>Journal of Luminescence, 2006, 116, 94-100.                                      | 1.5 | 8         |
| 77 | Excited state absorption spectroscopy of Nd3+ activated fluoroaluminate glass – experiment and simulation. Optical Materials, 2009, 31, 541-547.                                   | 1.7 | 8         |
| 78 | Investigation of optical and structural properties of ceramic boron nitride by terahertz time-domain spectroscopy. Applied Optics, 2013, 52, B20.                                  | 0.9 | 8         |
| 79 | Spectrally Efficient SSB signals for W-band Links Enabled by Kramers-Kronig Receiver. , 2018, , .  |     | 8         |
| 80 | Polymer Pellet Fabrication for Accurate THz-TDS Measurements. Applied Sciences (Switzerland), 2022, 12, 3475.  | 1.3 | 8         |
| 81 | 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         |
| 82 | Dielectric constants of bulk ferroelectric PZT measured by terahertz time-domain spectroscopy.<br>Advances in Applied Ceramics, 2016, 115, 260-263.                                | 0.6 | 7         |
| 83 | 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         |
| 84 | Effects of impurities in cadmium halide glasses for 1.3 μm amplifier. Journal of Non-Crystalline Solids,<br>1995, 184, 263-267.  | 1.5 | 6         |
| 85 | A review of optical and thermal properties of cadmium-mixed halide glass host for the 1.3 μm<br>Pr3+-doped amplifier. Journal of Non-Crystalline Solids, 1996, 196, 199-203.       | 1.5 | 6         |
| 86 | Optical spectroscopy and multiple-line gain in Pr3+-activated fluoroaluminate glass. Journal of<br>Physics Condensed Matter, 2002, 14, 6785-6799.                                  | 0.7 | 5         |
| 87 | Terahertz time domain detection of imidazolium ionic liquid reactivity in nanohybrid materials based<br>on Kaolinite and Halloysite. Applied Clay Science, 2017, 135, 475-484.     | 2.6 | 5         |
| 88 | Metrology of complex refractive index for solids in the terahertz regime using frequency domain spectroscopy. Metrologia, 2018, 55, 771-781.                                       | 0.6 | 5         |
| 89 | 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         |
| 90 | Orientational dependence of THz optical constants, birefrigence and dichroism of liquid crystals<br>BL037 and GT3-23001. Optical Materials Express, 2013, 3, 459.                  | 1.6 | 4         |

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|-----|--|-----|-----------|
| 91  | Effect of time-delay errors on THz spectroscopy dynamic range. , 2014, , .   |     | 4         |
| 92  | Comments on "Optical properties of borate crystals in the terahertz domain― Optics<br>Communications, 2016, 365, 14-15.                              | 1.0 | 4         |
| 93  | Measurement of a phonon resonance in a GaSe crystal using THz free induction decay. Vibrational Spectroscopy, 2017, 92, 169-172.                     | 1.2 | 4         |
| 94  | A Sensitive Broadband Detector for Room-Temperature Operation of a Simple Terahertz<br>Fourier-Transform Spectrometer. , 2006, , .                   |     | 3         |
| 95  | A simple fluid cell for the study of aqueous solutions using THz time-domain spectroscopy.<br>Measurement Science and Technology, 2011, 22, 037003.  | 1.4 | 3         |
| 96  | Optical properties and structure of pyrolytic boron nitride for THz applications. Optical Materials Express, 2013, 3, 260.                           | 1.6 | 3         |
| 97  | Refractive Indices of Ge and Si at Temperatures between 4–296 K in the 4–8 THz Region. Applied Sciences<br>(Switzerland), 2021, 11, 487.             | 1.3 | 3         |
| 98  | Non-Destructive Porosity Measurements of 3D Printed Polymer by Terahertz Time-Domain<br>Spectroscopy. Applied Sciences (Switzerland), 2022, 12, 927. | 1.3 | 3         |
| 99  | Characteristics of large-aperture photoconductive terahertz antennas. , 0, , .   |     | 2         |
| 100 | Linearity of terahertz time-domain spectrometers. Electronics Letters, 2008, 44, 854.  | 0.5 | 2         |
| 101 | Terahertz characterization of textiles. , 2013, , .  |     | 2         |
| 102 | THz optical constants of liquid crystals BL037 and GT3–23001. , 2013, , .  |     | 2         |
| 103 | Identification of textile fiber by IR and Raman spectroscopy. , 2014, , .  |     | 2         |
| 104 | Dynamic range improvement of THz spectroscopy. , 2014, , .   |     | 2         |
| 105 | A comparison method for THz measurements using VNA and TDS. , 2015, , .  |     | 2         |
| 106 | A multi-lab intercomparison study of THz time-domain spectrometers. , 2015, , .  |     | 2         |
| 107 | Demonstration of CW THz generation using a two-color Ti-sapphire laser containing a Fabry-Perot etalon. , 0, , .                                     |     | 1         |
| 108 | Hexagonal boron nitride studied by terahertz time-domain spectroscopy. Journal of Physics:<br>Conference Series, 2011, 310, 012006.                  | 0.3 | 1         |

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| #   | Article   | IF | CITATIONS |
|-----|---|----|-----------|
| 109 | Solid solution GaSe <inf>1−x</inf> S <inf>x</inf> crystals for THz<br>applications. , 2014, , .                       |    | 1         |
| 110 | Dielectric properties of CaZrO <inf>3</inf> investigated by THz-TDS. , 2015, , .                                      |    | 1         |
| 111 | Dispersion equations for the entire transparency range of GaSe. , 2015, , .   |    | 1         |
| 112 | Non-linear coefficients of crystals measured at THz frequencies. , 2016, , .  |    | 1         |
| 113 | Experimental investigation of phase noise tolerance of SSB THz signals. , 2017, , .                                   |    | 1         |
| 114 | 1310- to 1320-nm emission in Nd3+-ion-doped fluoroaluminate glasses. , 1998, , .                                      |    | 0         |
| 115 | Polymerisation-related changes in THz transmission in SU8 and polystyrene. , 2006, , .                                |    | 0         |
| 116 | Terahertz transmission through periodic arrays of dielectric and conducting spheres. , 2007, , .                      |    | 0         |
| 117 | Linearity of terahertz time-domain spectrometers , 2008, , .  |    | 0         |
| 118 | Frequency calibration of THz time-domain spectrometers using an etalon. , 2009, , .                                   |    | 0         |
| 119 | Investigation of Hexagonal Boron Nitride by Terahertz Time-Domain Spectroscopy. , 2010, , .                           |    | 0         |
| 120 | Dependence of THz optical constants on orientational alignment of liquid crystals. , 2013, , .                        |    | 0         |
| 121 | Terahertz time-domain characterization of various fabrics. , 2013, , .  |    | 0         |
| 122 | Investigation of modified GaSe crystal compositions for nonlinear THz applications. , 2013, , .                       |    | 0         |
| 123 | THz-TDS of chemically modified natural or synthetic layered clay systems. , 2014, , .                                 |    | 0         |
| 124 | THz spectroscopy of amines and aminoacids intercalated in clays. , 2014, , .  |    | 0         |
| 125 | Evolution of GaSe <inf>1−x</inf> S <inf>x</inf> phonon absorption peaks with S-doping studied by THz-TDS. , 2015, , . |    | 0         |
|     |   |    |           |

126 Metrology for terahertz time-domain spectrometers. , 2015, , .

| #   | Article   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | Dielectric constants of ferroelectric PZT at THz frequencies. , 2015, , .   |     | 0         |
| 128 | Refractivity of water vapor at terahertz frequencies — Comparison of measurements with models. , 2015, , .  |     | 0         |
| 129 | Device characterization for THz wireless links. , 2017, , .   |     | 0         |
| 130 | A Review of Measurement Capabilities at Millimetre and Submillimetre Wavelengths at the UK's National Physical Laboratory. , 2018, , .  |     | 0         |
| 131 | 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         |
| 132 | THz metrology for active electronic devices: state of the art and challenges. , 2017, , .   |     | 0         |
| 133 | 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         |
| 134 | Effect of Microsphere Concentration and Size in Compacts on Terahertz Scattering. , 2022, , .   |     | 0         |