

# Guangsheng Deng

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

50  
papers

442  
citations

12  
h-index

19  
g-index

56  
ext. papers

621  
ext. citations

2.5  
avg, IF

4.07  
L-index

| #  | Paper   | IF  | Citations |
|----|---|-----|-----------|
| 50 | Dielectric Properties of Liquid Crystal Polymer Substrates in the Region from 90 to 140 GHz. <i>Crystals</i> , <b>2022</b> , 12, 170  | 2.3 | 1         |
| 49 | A Miniaturized 3-D Metamaterial Absorber With Wide Angle Stability. <i>IEEE Microwave and Wireless Components Letters</i> , <b>2022</b> , 1-4   | 2.6 | 1         |
| 48 | Active continuous control of terahertz wave based on a reflectarray element-liquid crystal-grating electrode hybrid structure. <i>Optics Express</i> , <b>2022</b> , 30, 17361  | 3.3 | 1         |
| 47 | Tunable terahertz metamaterial wideband absorber with liquid crystal. <i>Optical Materials Express</i> , <b>2021</b> , 11, 4026   | 2.6 | 3         |
| 46 | Liquid metal-based metamaterial with high-temperature sensitivity: Design and computational study. <i>Open Physics</i> , <b>2021</b> , 19, 735-741  | 1.3 |           |
| 45 | Fully Electronically Phase Modulation of Millimeter-Wave via Comb Electrodes and Liquid Crystal. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2021</b> , 20, 342-345  | 3.8 | 5         |
| 44 | An ultra-wideband, polarization insensitive metamaterial absorber based on multiple resistive film layers with wide-incident-angle stability. <i>International Journal of Microwave and Wireless Technologies</i> , <b>2021</b> , 13, 58-66 | 0.8 | 2         |
| 43 | TM-polarized angle-dispersive metasurface for axisymmetric extension of beam steering angles. <i>Optics Express</i> , <b>2021</b> , 29, 3211-3220   | 3.3 | 1         |
| 42 | 3D rampart-based dual-band metamaterial absorber with wide-incident-angle stability. <i>Applied Physics Express</i> , <b>2021</b> , 14, 022005  | 2.4 | 8         |
| 41 | Enhanced broadband absorption with a twisted multilayer metal/dielectric stacking metamaterial. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 4804-4809  | 5.1 | 1         |
| 40 | 3D-Printed Multiband Absorber Based on Stereo Frequency Selective Structures. <i>Physica Status Solidi (A) Applications and Materials Science</i> , <b>2021</b> , 218, 2000734  | 1.6 | 1         |
| 39 | An ultra-broadband and optically transparent metamaterial absorber based on multilayer indium-tin-oxide structure. <i>Journal Physics D: Applied Physics</i> , <b>2021</b> , 54, 165301   | 3   | 11        |
| 38 | Design and Experimental Verification of a Liquid Crystal-Based Terahertz Phase Shifter for Reconfigurable Reflectarrays. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2020</b> , 41, 665-674                            | 2.2 | 0         |
| 37 | An efficient wideband cross-polarization converter manufactured by stacking metal/dielectric multilayers via 3D printing. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 093103   | 2.5 | 7         |
| 36 | Phonon-polariton assisted broadband resonant absorption in anisotropic $\epsilon$ -phase MoO <sub>3</sub> nanostructures. <i>Physical Review B</i> , <b>2020</b> , 102,   | 3.3 | 14        |
| 35 | Graphene-based wavelength demultiplexing structure. <i>Journal of the Optical Society of America A: Optics and Image Science, and Vision</i> , <b>2020</b> , 37, 903-907  | 1.8 | 1         |
| 34 | The Characterization and Application of Two Liquid Crystal Mixtures in the Low THz Region. <i>Crystals</i> , <b>2020</b> , 10, 99   | 2.3 | 0         |

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|----|---|-----|----|
| 33 | Reflectance-tunable terahertz polarization reflector using indium tin oxide. <i>Optics Communications</i> , <b>2020</b> , 460, 125149   | 2   |    |
| 32 | Wideband absorber based on conductive ink frequency selective surface with polarization insensitivity and wide-incident-angle stability. <i>Nanomaterials and Nanotechnology</i> , <b>2020</b> , 10, 1847980420935717 | 2.9 | 17 |
| 31 | An Ultrathin, Triple-Band Metamaterial Absorber with Wide-Incident-Angle Stability for Conformal Applications at X and Ku Frequency Band. <i>Nanoscale Research Letters</i> , <b>2020</b> , 15, 217                   | 5   | 13 |
| 30 | Stereo Perfect Metamaterial Absorber Based on Standing Gear-Shaped Resonant Structure With Wide-Incident-Angle Stability. <i>Frontiers in Physics</i> , <b>2020</b> , 8,  | 3.9 | 1  |
| 29 | Angle-Dispersive Metasurface for Axisymmetric Wavefront Manipulation over Continuous Incident Angles. <i>Physical Review Applied</i> , <b>2020</b> , 14,  | 4.3 | 2  |
| 28 | Electronically Tunable Liquid-Crystal-Based F-Band Phase Shifter. <i>IEEE Access</i> , <b>2020</b> , 8, 151065-151071   | 3.5 | 6  |
| 27 | Contact Resistance Parallel Model for Edge-Contacted 2D Material Back-Gate FET. <i>Electronics (Switzerland)</i> , <b>2020</b> , 9, 2110  | 2.6 | 3  |
| 26 | Dielectric properties of two high birefringence liquid crystal mixtures in the Sub-THz band. <i>Liquid Crystals</i> , <b>2020</b> , 47, 83-88   | 2.3 | 5  |
| 25 | A staggered double-vane slow-wave structure with double sheet electron beams for 340 GHz traveling wave tube. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2019</b> , 33, 1632-1643                  | 1.3 | 6  |
| 24 | Tunable Terahertz Transmission Properties of Double-Layered Metal Hole-Loop Arrays Using Nematic Liquid Crystal. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2019</b> , 40, 276-287              | 2.2 | 1  |
| 23 | Polarization dependent, plasmon-enhanced infrared transmission through gold nanoslits on monolayer black phosphorus. <i>Journal of the Optical Society of America B: Optical Physics</i> , <b>2019</b> , 36, F109     | 1.7 | 7  |
| 22 | Tunable multi-wavelength absorption in mid-IR region based on a hybrid patterned graphene-hBN structure. <i>Optics Express</i> , <b>2019</b> , 27, 23576-23584  | 3.3 | 19 |
| 21 | Electrically tunable liquid crystal terahertz device based on double-layer plasmonic metamaterial. <i>Optics Express</i> , <b>2019</b> , 27, 27039-27045  | 3.3 | 16 |
| 20 | Bandpass filter based on comb shaped graphene nanoribbons. <i>OSA Continuum</i> , <b>2019</b> , 2, 2614   | 1.4 | 0  |
| 19 | Optically transparent and single-band metamaterial absorber based on indium-tin-oxide. <i>International Journal of RF and Microwave Computer-Aided Engineering</i> , <b>2019</b> , 29, e21536                         | 1.5 | 13 |
| 18 | Electrically tunable terahertz dual-band metamaterial absorber based on a liquid crystal. <i>RSC Advances</i> , <b>2018</b> , 8, 4197-4203  | 3.7 | 31 |
| 17 | Electrically Tunable Reflective Terahertz Phase Shifter Based on Liquid Crystal. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , <b>2018</b> , 39, 439-446  | 2.2 | 19 |
| 16 | Antireflection self-reference method based on ultrathin metallic nanofilms for improving terahertz reflection spectroscopy. <i>Optics Express</i> , <b>2018</b> , 26, 19470-19478                                     | 3.3 | 5  |

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|----|--|------|----|
| 15 | A Tunable Polarization-Dependent Terahertz Metamaterial Absorber Based on Liquid Crystal. <i>Electronics (Switzerland)</i> , <b>2018</b> , 7, 27                           | 2.6  | 6  |
| 14 | Tunable Liquid Crystal Based Phase Shifter with a Slot Unit Cell for Reconfigurable Reflectarrays in F-Band. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2528 | 2.6  | 12 |
| 13 | Fast-Tunable Terahertz Metamaterial Absorber Based on Polymer Network Liquid Crystal. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 2454                        | 2.6  | 9  |
| 12 | Design and Experiment of Wideband Filters Based on Double-Layered Square-Loop Arrays in the F-Band. <i>Applied Sciences (Switzerland)</i> , <b>2018</b> , 8, 1669          | 2.6  | 1  |
| 11 | Wideband Metamaterial Absorbers Based on Conductive Plastic with Additive Manufacturing Technology. <i>ACS Omega</i> , <b>2018</b> , 3, 11144-11150                        | 3.9  | 18 |
| 10 | Reflective liquid crystal terahertz phase shifter with tuning range of over 360°. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 1466-1469            | 1.6  | 12 |
| 9  | Triple-band polarisation-independent metamaterial absorber at mm wave frequency band. <i>IET Microwaves, Antennas and Propagation</i> , <b>2018</b> , 12, 1120-1125        | 1.6  | 17 |
| 8  | A graphene-based broadband terahertz metamaterial modulator. <i>Journal of Electromagnetic Waves and Applications</i> , <b>2017</b> , 31, 2016-2024                        | 1.3  | 6  |
| 7  | A Tunable Metamaterial Absorber Based on Liquid Crystal Intended for F Frequency Band. <i>IEEE Antennas and Wireless Propagation Letters</i> , <b>2017</b> , 16, 2062-2065 | 3.8  | 19 |
| 6  | Broadband terahertz metamaterial absorber based on tantalum nitride. <i>Applied Optics</i> , <b>2017</b> , 56, 2449-2454   | 4.54 | 48 |
| 5  | A Polarization-Dependent Frequency-Selective Metamaterial Absorber with Multiple Absorption Peaks. <i>Applied Sciences (Switzerland)</i> , <b>2017</b> , 7, 580            | 2.6  | 7  |
| 4  | Measurement of LC dielectric constant at lower terahertz region based on metamaterial absorber. <i>IEICE Electronics Express</i> , <b>2017</b> , 14, 20170469-20170469     | 0.5  | 10 |
| 3  | Tunable terahertz metamaterial with a graphene reflector. <i>Materials Research Express</i> , <b>2016</b> , 3, 115801  | 1.7  | 7  |
| 2  | Graphene-based tunable polarization sensitive terahertz metamaterial absorber. <i>Optics Communications</i> , <b>2016</b> , 380, 101-107                                   | 2    | 51 |
| 1  | 0.22 THz two-stage cascaded staggered double-vane traveling-wave tube. <i>Journal of Computational Electronics</i> , <b>2016</b> , 15, 634-638                             | 1.8  | 6  |