

Abul K Azad

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/6120797/abul-k-azad-publications-by-year.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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

78
papers

7,293
citations

37
h-index

85
g-index

99
ext. papers

8,672
ext. citations

6
avg, IF

5.61
L-index

| # | Paper | IF | Citations |
|----|--|------|-----------|
| 78 | Space-Time Quantum Metasurfaces. <i>Physical Review Letters</i> , 2021 , 127, 043603 | 7.4 | 5 |
| 77 | Surface-wave-assisted nonreciprocity in spatio-temporally modulated metasurfaces. <i>Nature Communications</i> , 2020 , 11, 1469 | 17.4 | 38 |
| 76 | Bandwidth Enhancement of Planar Terahertz Metasurfaces via Overlapping of Dipolar Modes. <i>Plasmonics</i> , 2020 , 15, 1925-1934 | 2.4 | 6 |
| 75 | Modulating extraordinary terahertz transmissions in multilayer plasmonic metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 125101 | 1.7 | 4 |
| 74 | Active control of polarization-dependent near-field coupling in hybrid metasurfaces. <i>Applied Physics Letters</i> , 2018 , 113, 061111 | 3.4 | 19 |
| 73 | Hybrid graphene metasurfaces for high-speed mid-infrared light modulation and single-pixel imaging. <i>Light: Science and Applications</i> , 2018 , 7, 51 | 16.7 | 137 |
| 72 | High-Temperature Refractory Metasurfaces for Solar Thermophotovoltaic Energy Harvesting. <i>Nano Letters</i> , 2018 , 18, 7665-7673 | 11.5 | 69 |
| 71 | Passive Radiative Thermostat Enabled by Phase-Change Photonic Nanostructures. <i>ACS Photonics</i> , 2018 , 5, 4554-4560 | 6.3 | 47 |
| 70 | Ultrafast Relaxation of Charge Carriers Induced Switching in Terahertz Metamaterials. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2018 , 39, 1211-1220 | 2.2 | 4 |
| 69 | Bilayer Metasurfaces for Dual- and Broadband Optical Antireflection. <i>ACS Photonics</i> , 2017 , 4, 2111-2116 | 6.3 | 26 |
| 68 | Ultra-thin metasurface microwave flat lens for broadband applications. <i>Applied Physics Letters</i> , 2017 , 110, 224101 | 3.4 | 37 |
| 67 | Terahertz Metamaterials: Displacement Current Mediated Resonances in Terahertz Metamaterials (Advanced Optical Materials 8/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 1312-1312 | 8.1 | 1 |
| 66 | Displacement Current Mediated Resonances in Terahertz Metamaterials. <i>Advanced Optical Materials</i> , 2016 , 4, 1302-1309 | 8.1 | 9 |
| 65 | Frequency-agile electromagnetically induced transparency analogue in terahertz metamaterials. <i>Optics Letters</i> , 2016 , 41, 4562-4565 | 3 | 58 |
| 64 | Vibrational signatures in the THz spectrum of 1,3-DNB: A first-principles and experimental study. <i>Europhysics Letters</i> , 2016 , 114, 37010 | 1.6 | 1 |
| 63 | Metasurface Broadband Solar Absorber. <i>Scientific Reports</i> , 2016 , 6, 20347 | 4.9 | 148 |
| 62 | Temperature dependent terahertz properties of energetic materials 2016 , | | 1 |

| | | | |
|----|---|------|------|
| 61 | Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO ₂ . <i>Nano Letters</i> , 2016 , 16, 5751-5 | 11.5 | 77 |
| 60 | A graphene based tunable terahertz sensor with double Fano resonances. <i>Nanoscale</i> , 2015 , 7, 12682-8 | 7.7 | 154 |
| 59 | Insight into fiber Bragg sensor response at 100-MHz interrogation rates under various dynamic loading conditions 2015 , | | 1 |
| 58 | Coherent pulse interrogation system for fiber Bragg grating sensing of strain and pressure in dynamic extremes of materials. <i>Optics Express</i> , 2015 , 23, 14219-33 | 3.3 | 20 |
| 57 | Determining the band alignment of TbAs:GaAs and TbAs:In _{0.53} Ga _{0.47} As. <i>Applied Physics Letters</i> , 2015 , 107, 102103 | 3.4 | 7 |
| 56 | Independently tunable dual-band perfect absorber based on graphene at mid-infrared frequencies. <i>Scientific Reports</i> , 2015 , 5, 18463 | 4.9 | 108 |
| 55 | Corrections to "Near field coupling in passive and active teraHertz metamaterial devices" [Nov 13 783-790]. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2014 , 4, 400-400 | 3.4 | 1 |
| 54 | Excitation of dark plasmonic modes in symmetry broken terahertz metamaterials. <i>Optics Express</i> , 2014 , 22, 19401-10 | 3.3 | 26 |
| 53 | Orthogonally twisted planar concentric split ring resonators towards strong near field coupled terahertz metamaterials. <i>Applied Physics Letters</i> , 2014 , 104, 101105 | 3.4 | 20 |
| 52 | Hybrid metasurface for ultra-broadband terahertz modulation. <i>Applied Physics Letters</i> , 2014 , 105, 181108 | 3.4 | 28 |
| 51 | Charge carrier relaxation processes in TbAs nano-inclusions in GaAs measured by optical-pump THz-probe transient absorption spectroscopy. <i>Physical Review B</i> , 2014 , 89, | 3.3 | 18 |
| 50 | Influence of film thickness in THz active metamaterial devices: A comparison between superconductor and metal split-ring resonators. <i>Applied Physics Letters</i> , 2013 , 103, 061117 | 3.4 | 18 |
| 49 | Ultrafast manipulation of near field coupling between bright and dark modes in terahertz metamaterial. <i>Applied Physics Letters</i> , 2013 , 102, 011122 | 3.4 | 79 |
| 48 | Electromagnetic Response of Finite Terahertz Metafilm Arrays Excited on Total Internal Reflection Boundaries. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 709-720 | 3.4 | 2 |
| 47 | Near Field Coupling in Passive and Active Terahertz Metamaterial Devices. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2013 , 3, 783-790 | 3.4 | 26 |
| 46 | A review of terahertz plasmonics in subwavelength holes on conducting films. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2013 , 19, 8400416-8400416 | 3.8 | 24 |
| 45 | Terahertz metamaterials for linear polarization conversion and anomalous refraction. <i>Science</i> , 2013 , 340, 1304-7 | 33.3 | 1229 |
| 44 | Direct observation of electro-optic modulation in a single split-ring resonator. <i>Applied Physics Letters</i> , 2013 , 102, 091109 | 3.4 | 2 |

| | | | |
|----|---|------|-----|
| 43 | Broadband and high-efficiency terahertz metamaterial linear polarization converters 2013 , | | 1 |
| 42 | An active hybrid plasmonic metamaterial. <i>Optical Materials Express</i> , 2012 , 2, 31 | 2.6 | 37 |
| 41 | Active control of electromagnetically induced transparency analogue in terahertz metamaterials. <i>Nature Communications</i> , 2012 , 3, 1151 | 17.4 | 783 |
| 40 | Terahertz chiral metamaterials with giant and dynamically tunable optical activity. <i>Physical Review B</i> , 2012 , 86, | 3.3 | 178 |
| 39 | Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012 , 1, 117-123 | 6.3 | 63 |
| 38 | Coupling Schemes in Terahertz Planar Metamaterials. <i>International Journal of Optics</i> , 2012 , 2012, 1-12 | 0.9 | 8 |
| 37 | Thermal and ultrafast optical tuning of ultrathin high-temperature superconducting terahertz metamaterials 2012 , | | 2 |
| 36 | Photoinduced handedness switching in terahertz chiral metamolecules. <i>Nature Communications</i> , 2012 , 3, 942 | 17.4 | 333 |
| 35 | Impact of resonator geometry and its coupling with ground plane on ultrathin metamaterial perfect absorbers. <i>Applied Physics Letters</i> , 2012 , 101, 101102 | 3.4 | 140 |
| 34 | Dynamically reconfigurable terahertz metamaterial through photo-doped semiconductor. <i>Applied Physics Letters</i> , 2011 , 99, 231101 | 3.4 | 68 |
| 33 | A broadband planar terahertz metamaterial with nested structure. <i>Optics Express</i> , 2011 , 19, 15817-23 | 3.3 | 44 |
| 32 | Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. <i>Optics Letters</i> , 2011 , 36, 1230-2 | 3 | 124 |
| 31 | Metamaterial radiation from attenuated total reflection at terahertz frequencies 2011 , | | 2 |
| 30 | Orientation dependent far-infrared terahertz absorptions in single crystal pentaerythritol tetranitrate (PETN) using terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry A</i> , 2011 , 115, 439-42 | 2.8 | 11 |
| 29 | Tuning the resonance in high-temperature superconducting terahertz metamaterials. <i>Physical Review Letters</i> , 2010 , 105, 247402 | 7.4 | 188 |
| 28 | Metamaterial based devices for terahertz imaging 2010 , | | 1 |
| 27 | Large dynamic resonance transition between surface plasmon and localized surface plasmon modes. <i>Optics Express</i> , 2010 , 18, 12482-8 | 3.3 | 13 |
| 26 | Antireflection coating using metamaterials and identification of its mechanism. <i>Physical Review Letters</i> , 2010 , 105, 073901 | 7.4 | 249 |

| | | | |
|----|---|------|-----|
| 25 | A Novel Approach of Antireflection Coating Using Planar Metamaterials 2010 , | | 1 |
| 24 | Characterization of a metafilm/metasurface. <i>Digest / IEEE Antennas and Propagation Society International Symposium, 2009</i> , | | 4 |
| 23 | A discussion on the interpretation and characterization of metafilms/metasurfaces: The two-dimensional equivalent of metamaterials. <i>Metamaterials, 2009</i> , 3, 100-112 | | 221 |
| 22 | A metamaterial solid-state terahertz phase modulator. <i>Nature Photonics, 2009</i> , 3, 148-151 | 33.9 | 679 |
| 21 | Ultrafast optical control of terahertz surface plasmons in subwavelength hole arrays at room temperature. <i>Applied Physics Letters, 2009</i> , 95, 011105 | 3.4 | 45 |
| 20 | Metamaterials for THz polarimetric devices. <i>Optics Express, 2009</i> , 17, 773-83 | 3.3 | 73 |
| 19 | Terahertz metamaterials 2009 , | | 1 |
| 18 | Dynamic Metamaterials at Terahertz Frequencies. <i>Springer Series in Chemical Physics, 2009</i> , 645-647 | 0.3 | |
| 17 | Experimental demonstration of frequency-agile terahertz metamaterials. <i>Nature Photonics, 2008</i> , 2, 295-298 | 3.9 | 620 |
| 16 | Characterization and analysis of terahertz metamaterials based on rectangular split-ring resonators. <i>Applied Physics Letters, 2008</i> , 92, 011119 | 3.4 | 82 |
| 15 | Effect of metal permittivity on resonant properties of terahertz metamaterials. <i>Optics Letters, 2008</i> , 33, 1506-8 | 3 | 74 |
| 14 | Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. <i>Optics Express, 2008</i> , 16, 7641-8 | 3.3 | 97 |
| 13 | Carrier dynamics in InGaAs with embedded ErAs nanoislands. <i>Applied Physics Letters, 2008</i> , 93, 121108 | 3.4 | 29 |
| 12 | Active Terahertz Metamaterial Devices 2008 , | | 1 |
| 11 | Effects of Microstructure Variations on Macroscopic Terahertz Metafilm Properties. <i>Active and Passive Electronic Components, 2007</i> , 2007, 1-10 | 0.3 | 33 |
| 10 | Coupling between surface plasmons and nonresonant transmission in subwavelength holes at terahertz frequencies. <i>Applied Physics Letters, 2007</i> , 91, 071122 | 3.4 | 50 |
| 9 | Direct observation of a transition of a surface plasmon resonance from a photonic crystal effect. <i>Physical Review Letters, 2007</i> , 98, 183901 | 7.4 | 71 |
| 8 | Terahertz Dielectric Properties and Low-Frequency Phonon Resonances of ZnO Nanostructures. <i>Journal of Physical Chemistry C, 2007</i> , 111, 13000-13006 | 3.8 | 23 |

| | | | |
|---|---|-----|-----|
| 7 | Terahertz dielectric properties of high-resistivity single-crystal ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 021103 | 3-4 | 45 |
| 6 | Far-infrared characteristics of ZnS nanoparticles measured by terahertz time-domain spectroscopy. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 1989-93 | 3-4 | 37 |
| 5 | Transmission properties of terahertz pulses through subwavelength double split-ring resonators. <i>Optics Letters</i> , 2006 , 31, 634-6 | 3 | 120 |
| 4 | Effect of dielectric properties of metals on terahertz transmission subwavelength hole arrays. <i>Optics Letters</i> , 2006 , 31, 2637-9 | 3 | 68 |
| 3 | Resonant terahertz transmission in subwavelength metallic hole arrays of sub-skin-depth thickness. <i>Optics Letters</i> , 2005 , 30, 2945-7 | 3 | 84 |
| 2 | Transmission properties of terahertz pulses through an ultrathin subwavelength silicon hole array. <i>Applied Physics Letters</i> , 2005 , 86, 141102 | 3-4 | 71 |
| 1 | Terahertz studies of carrier dynamics and dielectric response of n-type, freestanding epitaxial GaN. <i>Applied Physics Letters</i> , 2003 , 82, 2841-2843 | 3-4 | 68 |