Abul K Azad

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citations

85
g-index

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ext. papers

8,672
ext. citations

37
h-index

5.61
L-index

#	Paper	IF	Citations
78	Terahertz metamaterials for linear polarization conversion and anomalous refraction. <i>Science</i> , 2013 , 340, 1304-7	33.3	1229
77	Active control of electromagnetically induced transparency analogue in terahertz metamaterials. <i>Nature Communications</i> , 2012 , 3, 1151	17.4	783
76	A metamaterial solid-state terahertz phase modulator. <i>Nature Photonics</i> , 2009 , 3, 148-151	33.9	679
75	Experimental demonstration of frequency-agile terahertz metamaterials. <i>Nature Photonics</i> , 2008 , 2, 29	5-339\$	620
74	Photoinduced handedness switching in terahertz chiral metamolecules. <i>Nature Communications</i> , 2012 , 3, 942	17.4	333
73	Antireflection coating using metamaterials and identification of its mechanism. <i>Physical Review Letters</i> , 2010 , 105, 073901	7.4	249
72	A discussion on the interpretation and characterization of metafilms/metasurfaces: The two-dimensional equivalent of metamaterials. <i>Metamaterials</i> , 2009 , 3, 100-112		221
71	Tuning the resonance in high-temperature superconducting terahertz metamaterials. <i>Physical Review Letters</i> , 2010 , 105, 247402	7.4	188
70	Terahertz chiral metamaterials with giant and dynamically tunable optical activity. <i>Physical Review B</i> , 2012 , 86,	3.3	178
69	A graphene based tunable terahertz sensor with double Fano resonances. <i>Nanoscale</i> , 2015 , 7, 12682-8	7.7	154
68	Metasurface Broadband Solar Absorber. <i>Scientific Reports</i> , 2016 , 6, 20347	4.9	148
67	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
66	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
65	Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. <i>Optics Letters</i> , 2011 , 36, 1230-2	3	124
64	Transmission properties of terahertz pulses through subwavelength double split-ring resonators. <i>Optics Letters</i> , 2006 , 31, 634-6	3	120
63	Independently tunable dual-band perfect absorber based on graphene at mid-infrared frequencies. <i>Scientific Reports</i> , 2015 , 5, 18463	4.9	108
62	Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. <i>Optics Express</i> , 2008 , 16, 7641-8	3.3	97

(2006-2005)

61	Resonant terahertz transmission in subwavelength metallic hole arrays of sub-skin-depth thickness. <i>Optics Letters</i> , 2005 , 30, 2945-7	3	84	
60	Characterization and analysis of terahertz metamaterials based on rectangular split-ring resonators. <i>Applied Physics Letters</i> , 2008 , 92, 011119	3.4	82	
59	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	
58	Conducting Interface in Oxide Homojunction: Understanding of Superior Properties in Black TiO2. <i>Nano Letters</i> , 2016 , 16, 5751-5	11.5	77	
57	Effect of metal permittivity on resonant properties of terahertz metamaterials. <i>Optics Letters</i> , 2008 , 33, 1506-8	3	74	
56	Metamaterials for THz polarimetric devices. <i>Optics Express</i> , 2009 , 17, 773-83	3.3	73	
55	Direct observation of a transition of a surface plasmon resonance from a photonic crystal effect. <i>Physical Review Letters</i> , 2007 , 98, 183901	7.4	71	
54	Transmission properties of terahertz pulses through an ultrathin subwavelength silicon hole array. <i>Applied Physics Letters</i> , 2005 , 86, 141102	3.4	71	
53	High-Temperature Refractory Metasurfaces for Solar Thermophotovoltaic Energy Harvesting. <i>Nano Letters</i> , 2018 , 18, 7665-7673	11.5	69	
52	Dynamically reconfigurable terahertz metamaterial through photo-doped semiconductor. <i>Applied Physics Letters</i> , 2011 , 99, 231101	3.4	68	
51	Effect of dielectric properties of metals on terahertz transmission subwavelength hole arrays. <i>Optics Letters</i> , 2006 , 31, 2637-9	3	68	
50	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	
49	Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012 , 1, 117-123	6.3	63	
48	Frequency-agile electromagnetically induced transparency analogue in terahertz metamaterials. <i>Optics Letters</i> , 2016 , 41, 4562-4565	3	58	
47	Coupling between surface plasmons and nonresonant transmission in subwavelength holes at terahertz frequencies. <i>Applied Physics Letters</i> , 2007 , 91, 071122	3.4	50	
46	Passive Radiative Thermostat Enabled by Phase-Change Photonic Nanostructures. <i>ACS Photonics</i> , 2018 , 5, 4554-4560	6.3	47	
45	Ultrafast optical control of terahertz surface plasmons in subwavelength hole arrays at room temperature. <i>Applied Physics Letters</i> , 2009 , 95, 011105	3.4	45	
44	Terahertz dielectric properties of high-resistivity single-crystal ZnO. <i>Applied Physics Letters</i> , 2006 , 88, 021103	3.4	45	

43	A broadband planar terahertz metamaterial with nested structure. Optics Express, 2011, 19, 15817-23	3.3	44
42	Surface-wave-assisted nonreciprocity in spatio-temporally modulated metasurfaces. <i>Nature Communications</i> , 2020 , 11, 1469	17.4	38
41	Ultra-thin metasurface microwave flat lens for broadband applications. <i>Applied Physics Letters</i> , 2017 , 110, 224101	3.4	37
40	An active hybrid plasmonic metamaterial. <i>Optical Materials Express</i> , 2012 , 2, 31	2.6	37
39	Far-infrared characteristics of ZnS nanoparticles measured by terahertz time-domain spectroscopy. Journal of Physical Chemistry B, 2006 , 110, 1989-93	3.4	37
38	Effects of Microstructure Variations on Macroscopic Terahertz Metafilm Properties. <i>Active and Passive Electronic Components</i> , 2007 , 2007, 1-10	0.3	33
37	Carrier dynamics in InGaAs with embedded ErAs nanoislands. <i>Applied Physics Letters</i> , 2008 , 93, 121108	3.4	29
36	Hybrid metasurface for ultra-broadband terahertz modulation. <i>Applied Physics Letters</i> , 2014 , 105, 1811	08.4	28
35	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
34	Bilayer Metasurfaces for Dual- and Broadband Optical Antireflection. ACS Photonics, 2017, 4, 2111-2110	6 6.3	26
33	Excitation of dark plasmonic modes in symmetry broken terahertz metamaterials. <i>Optics Express</i> , 2014 , 22, 19401-10	3.3	26
32	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
31	Terahertz Dielectric Properties and Low-Frequency Phonon Resonances of ZnO Nanostructures. Journal of Physical Chemistry C, 2007 , 111, 13000-13006	3.8	23
30	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
29	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
28	Active control of polarization-dependent near-field coupling in hybrid metasurfaces. <i>Applied Physics Letters</i> , 2018 , 113, 061111	3.4	19
27	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
26	Charge carrier relaxation processes in TbAs nanoinclusions in GaAs measured by optical-pump THz-probe transient absorption spectroscopy. <i>Physical Review B</i> , 2014 , 89,	3.3	18

(2013-2010)

25	Large dynamic resonance transition between surface plasmon and localized surface plasmon modes. <i>Optics Express</i> , 2010 , 18, 12482-8	3.3	13
24	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
23	Displacement Current Mediated Resonances in Terahertz Metamaterials. <i>Advanced Optical Materials</i> , 2016 , 4, 1302-1309	8.1	9
22	Coupling Schemes in Terahertz Planar Metamaterials. <i>International Journal of Optics</i> , 2012 , 2012, 1-12	0.9	8
21	Determining the band alignment of TbAs:GaAs and TbAs:In0.53Ga0.47As. <i>Applied Physics Letters</i> , 2015 , 107, 102103	3.4	7
20	Bandwidth Enhancement of Planar Terahertz Metasurfaces via Overlapping of Dipolar Modes. <i>Plasmonics</i> , 2020 , 15, 1925-1934	2.4	6
19	Space-Time Quantum Metasurfaces. <i>Physical Review Letters</i> , 2021 , 127, 043603	7.4	5
18	Characterization of a metafilm/metasurface. <i>Digest / IEEE Antennas and Propagation Society International Symposium</i> , 2009 ,		4
17	Modulating extraordinary terahertz transmissions in multilayer plasmonic metasurfaces. <i>Journal of Optics (United Kingdom)</i> , 2020 , 22, 125101	1.7	4
16	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
15	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
14	Thermal and ultrafast optical tuning of ultrathin high-temperature superconducting terahertz metamaterials 2012 ,		2
13	Direct observation of electro-optic modulation in a single split-ring resonator. <i>Applied Physics Letters</i> , 2013 , 102, 091109	3.4	2
12	Metamaterial radiation from attenuated total reflection at terahertz frequencies 2011,		2
11	Insight into fiber Bragg sensor response at 100-MHz interrogation rates under various dynamic loading conditions 2015 ,		1
10	Terahertz Metamaterials: Displacement Current Mediated Resonances in Terahertz Metamaterials (Advanced Optical Materials Materials 8/2016). <i>Advanced Optical Materials</i> , 2016 , 4, 1312-1312	8.1	1
9	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
8	Broadband and high-efficiency terahertz metamaterial linear polarization converters 2013 ,		1

7	Metamaterial based devices for terahertz imaging 2010 ,		1
6	Terahertz metamaterials 2009 ,		1
5	Active Terahertz Metamaterial Devices 2008,		1
4	A Novel Approach of Antireflection Coating Using Planar Metamaterials 2010 ,		1
3	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
2	Temperature dependent terahertz properties of energetic materials 2016,		1
1	Dynamic Metamaterials at Terahertz Frequencies. Springer Series in Chemical Physics, 2009, 645-647	0.3	