

Hou-Tong Chen

List of Publications by Year in Descending Order

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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.

102
papers

12,171
citations

44
h-index

110
g-index

151
ext. papers

14,777
ext. citations

7.3
avg, IF

6.53
L-index

#	Paper	IF	Citations
102	Ultrafast phenomena and terahertz waves: introduction. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2022 , 39, UPT1	1.7	0
101	Core-shell metallic alloy nanopillars-in-dielectric hybrid metamaterials with magneto-plasmonic coupling. <i>Materials Today</i> , 2021 ,	21.8	2
100	3D Hybrid Plasmonic Framework with Au Nanopillars Embedded in Nitride Multilayers Integrated on Si. <i>Advanced Materials Interfaces</i> , 2020 , 7, 2000493	4.6	11
99	Surface-wave-assisted nonreciprocity in spatio-temporally modulated metasurfaces. <i>Nature Communications</i> , 2020 , 11, 1469	17.4	38
98	Room-Temperature Ferroelectric LiNbBaTiO Spinel Phase in a Nanocomposite Thin Film Form for Nonlinear Photonics. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 23076-23083	9.5	6
97	Electrically Tunable Metasurface with Independent Frequency and Amplitude Modulations. <i>ACS Photonics</i> , 2020 , 7, 265-271	6.3	83
96	Morphology Control of Self-Assembled Three-Phase Au-BaTiO ₃ /ZnO Hybrid Metamaterial for Tunable Optical Properties. <i>Crystal Growth and Design</i> , 2020 , 20, 6101-6108	3.5	10
95	Observation of Intersubband Polaritons in a Single Nanoantenna Using Nano-FTIR Spectroscopy. <i>Nano Letters</i> , 2019 , 19, 4620-4626	11.5	7
94	Reconfigurable Terahertz Metasurface Pure Phase Holograms. <i>Advanced Optical Materials</i> , 2019 , 7, 1801896	16.9	37
93	Highly Plasmonic Titanium Nitride by Room-Temperature Sputtering. <i>Scientific Reports</i> , 2019 , 9, 15287	4.9	27
92	Broadband Linear-to-Circular Polarization Conversion Enabled by Birefringent Off-Resonance Reflective Metasurfaces. <i>Physical Review Letters</i> , 2019 , 123, 237401	7.4	43
91	Metasurface-based ultra-lightweight high-gain off-axis flat parabolic reflectarray for microwave beam collimation/focusing. <i>Scientific Reports</i> , 2019 , 9, 18984	4.9	4
90	Terahertz biosensing with a graphene-metamaterial heterostructure platform. <i>Carbon</i> , 2019 , 141, 247-250.	5.4	82
89	Self-Assembled Ordered Three-Phase Au-BaTiO ₃ -ZnO Vertically Aligned Nanocomposites Achieved by a Templating Method. <i>Advanced Materials</i> , 2019 , 31, e1806529	24	42
88	Self-Assembled Ag ₃ SiN Hybrid Plasmonic Metamaterial: Tailorable Tilted Nanopillar and Optical Properties. <i>Advanced Optical Materials</i> , 2019 , 7, 1801180	8.1	26
87	Electric-field tuning of a planar terahertz metamaterial based on strained SrTiO ₃ layers. <i>Journal Physics D: Applied Physics</i> , 2018 , 51, 054001	3	5
86	Nanoscale Artificial Plasmonic Lattice in Self-Assembled Vertically Aligned Nitride-Metal Hybrid Metamaterials. <i>Advanced Science</i> , 2018 , 5, 1800416	13.6	44

85	Invited Article: Narrowband terahertz bandpass filters employing stacked bilayer metasurface antireflection structures. <i>APL Photonics</i> , 2018 , 3, 051602	5.2	30
84	Tailorable Optical Response of Au \square NbO ₃ Hybrid Metamaterial Thin Films for Optical Waveguide Applications. <i>Advanced Optical Materials</i> , 2018 , 6, 1800510	8.1	24
83	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
82	High-Temperature Refractory Metasurfaces for Solar Thermophotovoltaic Energy Harvesting. <i>Nano Letters</i> , 2018 , 18, 7665-7673	11.5	69
81	Intrinsic left-handed electromagnetic properties in anisotropic superconductors. <i>Applied Physics Letters</i> , 2017 , 110, 172602	3.4	
80	Nonlinear terahertz metamaterials with active electrical control. <i>Applied Physics Letters</i> , 2017 , 111, 121101	3.4	24
79	Manipulating multiple order parameters via oxygen vacancies: The case of Eu _{0.5} Ba _{0.5} TiO ₃ \square <i>Physical Review B</i> , 2017 , 96,	3.3	13
78	Bilayer Metasurfaces for Dual- and Broadband Optical Antireflection. <i>ACS Photonics</i> , 2017 , 4, 2111-2116	6.3	26
77	Characterization of an active metasurface using terahertz ellipsometry. <i>Applied Physics Letters</i> , 2017 , 111, 191101	3.4	7
76	Ultra-thin metasurface microwave flat lens for broadband applications. <i>Applied Physics Letters</i> , 2017 , 110, 224101	3.4	37
75	Single-Layer Plasmonic Metasurface Half-Wave Plates with Wavelength-Independent Polarization Conversion Angle. <i>ACS Photonics</i> , 2017 , 4, 2061-2069	6.3	39
74	Efficient terahertz metasurface-based flat lens 2017 ,		1
73	Demonstration of a highly efficient terahertz flat lens employing tri-layer metasurfaces. <i>Optics Letters</i> , 2017 , 42, 1867-1870	3	38
72	Resonance coupling and polarization conversion in terahertz metasurfaces with twisted split-ring resonator pairs. <i>Optics Express</i> , 2017 , 25, 25842-25852	3.3	17
71	Substrate-insensitive atomic layer deposition of plasmonic titanium nitride films. <i>Optical Materials Express</i> , 2017 , 7, 777	2.6	18
70	A review of metasurfaces: physics and applications. <i>Reports on Progress in Physics</i> , 2016 , 79, 076401	14.4	931
69	Metasurface Broadband Solar Absorber. <i>Scientific Reports</i> , 2016 , 6, 20347	4.9	148
68	Simultaneous Control of Light Polarization and Phase Distributions Using Plasmonic Metasurfaces. <i>Advanced Functional Materials</i> , 2015 , 25, 704-710	15.6	150

67	Semiconductor activated terahertz metamaterials. <i>Frontiers of Optoelectronics</i> , 2015 , 8, 27-43	2.8	7
66	Independently tunable dual-band perfect absorber based on graphene at mid-infrared frequencies. <i>Scientific Reports</i> , 2015 , 5, 18463	4.9	108
65	Metamaterials: Anomalous Terahertz Reflection and Scattering by Flexible and Conformal Coding Metamaterials (Advanced Optical Materials 10/2015). <i>Advanced Optical Materials</i> , 2015 , 3, 1373-1373	8.1	5
64	Anomalous Terahertz Reflection and Scattering by Flexible and Conformal Coding Metamaterials. <i>Advanced Optical Materials</i> , 2015 , 3, 1374-1380	8.1	131
63	An electrically driven terahertz metamaterial diffractive modulator with more than 20 dB of dynamic range. <i>Applied Physics Letters</i> , 2014 , 104, 091115	3.4	57
62	Hybrid metasurface for ultra-broadband terahertz modulation. <i>Applied Physics Letters</i> , 2014 , 105, 181108	8.4	28
61	Metasurface optical antireflection coating. <i>Applied Physics Letters</i> , 2014 , 105, 241113	3.4	37
60	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
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	Specificity and heterogeneity of terahertz radiation effect on gene expression in mouse mesenchymal stem cells. <i>Scientific Reports</i> , 2013 , 3, 1184	4.9	61
57	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
56	Terahertz metamaterials for linear polarization conversion and anomalous refraction. <i>Science</i> , 2013 , 340, 1304-7	33.3	1229
55	The role of magnetic dipoles and non-zero-order Bragg waves in metamaterial perfect absorbers. <i>Optics Express</i> , 2013 , 21, 3540-6	3.3	14
54	Nonlinear high-temperature superconducting terahertz metamaterials. <i>New Journal of Physics</i> , 2013 , 15, 105016	2.9	31
53	Near-infrared surface plasmon polariton dispersion control with hyperbolic metamaterials. <i>Optics Express</i> , 2013 , 21, 11107-14	3.3	23
52	Interference theory of metamaterial perfect absorbers. <i>Optics Express</i> , 2012 , 20, 7165-72	3.3	600
51	Experimental demonstration of terahertz metamaterial absorbers with a broad and flat high absorption band. <i>Optics Letters</i> , 2012 , 37, 154-6	3	273
50	Crystallization of liquid Cu nanodroplets on single crystal Cu substrates prefers closest-packed planes regardless of the substrate orientations. <i>Journal of Crystal Growth</i> , 2012 , 345, 34-38	1.6	5

49	Active control of electromagnetically induced transparency analogue in terahertz metamaterials. <i>Nature Communications</i> , 2012 , 3, 1151	17.4	783
48	Terahertz chiral metamaterials with giant and dynamically tunable optical activity. <i>Physical Review B</i> , 2012 , 86,	3.3	178
47	Optical tuning and ultrafast dynamics of high-temperature superconducting terahertz metamaterials. <i>Nanophotonics</i> , 2012 , 1, 117-123	6.3	63
46	Coupling Schemes in Terahertz Planar Metamaterials. <i>International Journal of Optics</i> , 2012 , 2012, 1-12	0.9	8
45	Thermal and ultrafast optical tuning of ultrathin high-temperature superconducting terahertz metamaterials 2012 ,		2
44	Photoinduced handedness switching in terahertz chiral metamolecules. <i>Nature Communications</i> , 2012 , 3, 942	17.4	333
43	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
42	Dynamically reconfigurable terahertz metamaterial through photo-doped semiconductor. <i>Applied Physics Letters</i> , 2011 , 99, 231101	3.4	68
41	Non-thermal effects of terahertz radiation on gene expression in mouse stem cells. <i>Biomedical Optics Express</i> , 2011 , 2, 2679-89	3.5	57
40	A broadband planar terahertz metamaterial with nested structure. <i>Optics Express</i> , 2011 , 19, 15817-23	3.3	44
39	Thermal tunability in terahertz metamaterials fabricated on strontium titanate single-crystal substrates. <i>Optics Letters</i> , 2011 , 36, 1230-2	3	124
38	Manipulation of terahertz radiation using metamaterials. <i>Laser and Photonics Reviews</i> , 2011 , 5, 513-533	8.3	112
37	Active terahertz metamaterials. <i>Optics and Spectroscopy (English Translation of Optika i Spektroskopiya)</i> , 2010 , 108, 834-840	0.7	4
36	Mammalian stem cells reprogramming in response to terahertz radiation. <i>PLoS ONE</i> , 2010 , 5, e15806	3.7	84
35	Tuning the resonance in high-temperature superconducting terahertz metamaterials. <i>Physical Review Letters</i> , 2010 , 105, 247402	7.4	188
34	Metamaterial based devices for terahertz imaging 2010 ,		1
33	Antireflection coating using metamaterials and identification of its mechanism. <i>Physical Review Letters</i> , 2010 , 105, 073901	7.4	249
32	Facile Synthesis and Electrical Properties of Silver Wires through Chemical Reduction by Polyaniline. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 22147-22154	3.8	37

31	Terahertz superconductor metamaterial. <i>Applied Physics Letters</i> , 2010 , 97, 071102	3-4	95
30	External modulators for TeraHertz Quantum Cascade Lasers based on electrically-driven active metamaterials. <i>Metamaterials</i> , 2010 , 4, 83-88		13
29	A Novel Approach of Antireflection Coating Using Planar Metamaterials 2010 ,		1
28	A spatial light modulator for terahertz beams. <i>Applied Physics Letters</i> , 2009 , 94, 213511	3-4	209
27	A metamaterial solid-state terahertz phase modulator. <i>Nature Photonics</i> , 2009 , 3, 148-151	33-9	679
26	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
25	Metamaterials for THz polarimetric devices. <i>Optics Express</i> , 2009 , 17, 773-83	3-3	73
24	Terahertz metamaterials 2009 ,		1
23	Experimental demonstration of frequency-agile terahertz metamaterials. <i>Nature Photonics</i> , 2008 , 2, 295-298	3-3	620
22	Electronic control of extraordinary terahertz transmission through subwavelength metal hole arrays. <i>Optics Express</i> , 2008 , 16, 7641-8	3-3	97
21	Surface plasmons in terahertz metamaterials. <i>Optics Express</i> , 2008 , 16, 18745-51	3-3	42
20	Hybrid metamaterials enable fast electrical modulation of freely propagating terahertz waves. <i>Applied Physics Letters</i> , 2008 , 93, 091117	3-4	105
19	Active Terahertz Metamaterial Devices 2008 ,		1
18	Effects of Microstructure Variations on Macroscopic Terahertz Metafilm Properties. <i>Active and Passive Electronic Components</i> , 2007 , 2007, 1-10	0-3	33
17	Terahertz metamaterials for active, tunable, and dynamic devices 2007 ,		1
16	Terahertz metamaterial devices 2007 ,		3
15	Ultrafast optical switching of terahertz metamaterials fabricated on ErAs/GaAs nanoisland superlattices. <i>Optics Letters</i> , 2007 , 32, 1620-2	3	210
14	Complementary planar terahertz metamaterials. <i>Optics Express</i> , 2007 , 15, 1084-95	3-3	247

13	Properties of Planar Electric Metamaterials for Novel TeraHertz Applications. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2007 , 2, 90-95	1.3	24
12	Split-Ring Resonator Enhanced Terahertz Antenna 2007 ,		1
11	Terahertz microscopy of charge carriers in semiconductors. <i>Applied Physics Letters</i> , 2006 , 88, 112115	3.4	39
10	Active terahertz metamaterial devices. <i>Nature</i> , 2006 , 444, 597-600	50.4	1584
9	Apertureless terahertz near-field microscopy. <i>Semiconductor Science and Technology</i> , 2005 , 20, S286-S292		30
8	Terahertz microscopy with submicrometre resolution. <i>Journal of Optics</i> , 2005 , 7, S184-S189		15
7	Terahertz Access to the Nanoworld. <i>Springer Series in Chemical Physics</i> , 2005 , 693-695	0.3	
6	Identification of a resonant imaging process in apertureless near-field microscopy. <i>Physical Review Letters</i> , 2004 , 93, 267401	7.4	46
5	Optical properties of nanocrystalline Y2O3:Eu depending on its odd structure. <i>Journal of Colloid and Interface Science</i> , 2003 , 262, 588-93	9.3	134
4	Terahertz imaging with nanometer resolution. <i>Applied Physics Letters</i> , 2003 , 83, 3009-3011	3.4	336
3	Energy transfer in PbWO4/Dy3+ luminescence. <i>Journal of Alloys and Compounds</i> , 2001 , 322, 298-301	5.7	11
2	Luminescence concentration quenching of 1D2 state in YPO4:Pr3+. <i>Journal of Physics Condensed Matter</i> , 2001 , 13, 1151-1158	1.8	52
1	Photoluminescence Properties of Surface-Modified Nanocrystalline ZnS : Mn. <i>Journal of Colloid and Interface Science</i> , 2000 , 229, 534-539	9.3	26