Wen-Hui Fan

List of Publications by Year
in descending order

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70 papers	1,938 citations	257101 24 h-index	253896 43 g-index
74 all docs	74 docs citations	74 times ranked	1984 citing authors

#	Article	IF	Citations
1	High-Q Toroidal Dipole Metasurfaces Driven By Bound States in the Continuum for Ultrasensitive Terahertz Sensing. Journal of Lightwave Technology, 2022, 40, 2181-2190.	2.7	28
2	Polarization insensitive achromatic terahertz metalens based on all-dielectric metasurfaces. Optics Communications, 2022, 512, 128061.	1.0	8
3	Terahertz photoconductive antenna based on antireflection dielectric metasurfaces with embedded plasmonic nanodisks. Applied Optics, 2021, 60, 7921.	0.9	4
4	Terahertz signatures and quantitative analysis of glucose anhydrate and monohydrate mixture. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 258, 119825.	2.0	10
5	Ultrahigh-Q terahertz sensor based on simple all-dielectric metasurface with toroidal dipole resonance. Applied Physics Express, 2021, 14, 102008.	1.1	6
6	Ultra-Broadband Polarization Conversion Metasurface with High Transmission for Efficient Multi-Functional Wavefront Manipulation in the Terahertz Range. Nanomaterials, 2021, 11, 2895.	1.9	19
7	Tunable Bound States in the Continuum in All-Dielectric Terahertz Metasurfaces. Nanomaterials, 2020, 10, 623.	1.9	40
8	Toroidal dipole bound states in the continuum metasurfaces for terahertz nanofilm sensing. Optics Express, 2020, 28, 17102.	1.7	67
9	Toroidal metasurfaces integrated with microfluidic for terahertz refractive index sensing. Journal Physics D: Applied Physics, 2019, 52, 485104.	1.3	33
10	Graphene based polarization independent Fano resonance at terahertz for tunable sensing at nanoscale. Optics Communications, 2019, 439, 61-65.	1.0	13
11	Ultrahigh-Q toroidal dipole resonance in all-dielectric metamaterials for terahertz sensing. Optics Letters, 2019, 44, 5876.	1.7	59
12	Multiple plasmonic resonance excitations on graphene metamaterials for ultrasensitive terahertz sensing. Carbon, 2018, 133, 416-422.	5.4	91
13	Terahertz and infrared characteristic absorption spectra of aqueous glucose and fructose solutions. Scientific Reports, 2018, 8, 8964.	1.6	37
14	Terahertz spectroscopy and solid-state density functional theory calculations of structural isomers: Nicotinic acid, isonicotinic acid and 2-picolinic acid. Modern Physics Letters B, 2017, 31, 1750149.	1.0	12
15	Ultrasensitive terahertz metamaterial sensor based on spoof surface plasmon. Scientific Reports, 2017, 7, 2092.	1.6	98
16	Study of the interaction between graphene and planar terahertz metamaterial with toroidal dipolar resonance. Optics Letters, 2017, 42, 2034.	1.7	61
17	Identification of high explosive RDX using terahertz imaging and spectral fingerprints. Journal of Physics: Conference Series, 2016, 680, 012030.	0.3	18
18	Polarization-insensitive tunable multiple electromagnetically induced transparencies analogue in terahertz graphene metamaterial. Optical Materials Express, 2016, 6, 2607.	1.6	27

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19	Systematic experimental study on a highly efficient terahertz source based on two-color laser-induced air plasma. Laser Physics, 2016, 26, 055002.	0.6	7
20	Ionic Liquids: Not only Structurally but also Dynamically Heterogeneous. Angewandte Chemie - International Edition, 2015, 54, 687-690.	7.2	41
21	A multiband THz bandpass filter based on multiple-resonance excitation of a composite metamaterial. Materials Research Express, 2015, 2, 055801.	0.8	11
22	Plasmon-induced transparency in terahertz planar metamaterials. Optics Communications, 2015, 356, 84-89.	1.0	10
23	Ultra-flexible polarization-insensitive multiband terahertz metamaterial absorber. Applied Optics, 2015, 54, 2376.	0.9	30
24	High-resolution reconstruction for terahertz imaging. Applied Optics, 2014, 53, 7891.	2.1	40
25	Terahertz spectral investigation of anhydrous and monohydrated glucose using terahertz spectroscopy and solid-state theory. Journal of Molecular Spectroscopy, 2014, 296, 9-13.	0.4	38
26	Investigation on the factors to influence terahertz absorption spectrum. , 2014, , .		0
27	Analysis of terahertz generation characteristic affected by injured photoconductive antenna. , 2013, , .		0
28	Suppression of the fluctuation ef fect in terahertz imaging using homomorphic filtering. Chinese Optics Letters, 2013, 11, 081201-81205.	1.3	6
29	Experimental study on high efficiency of Ti:sapphire laser to single-mode f iber coupling. Chinese Optics Letters, 2013, 11, 050605-50607.	1.3	0
30	Route of delivering 40-fs ultra-short laser pulses for gating photoconductive antenna in fiber-coupled terahertz time-domain spectroscopy. Optical Engineering, 2012, 51, 085001.	0.5	2
31	Finger capacitance of a terahertz photomixer in low-temperature-grown GaAs using the finite element method. Chinese Physics B, 2012, 21, 104101.	0.7	1
32	Dispersion control in fiber-coupled THz-TDS. Optik, 2012, 123, 2230-2232.	1.4	4
33	Terahertz and mid-infrared spectroscopy of benzene-1,2-diol. Journal of Molecular Spectroscopy, 2012, 281, 13-17.	0.4	10
34	First principles investigation of L-alanine in terahertz region. Journal of Biological Physics, 2012, 38, 405-413.	0.7	29
35	Terahertz absorption spectra of benzene-1,2-diol, benzene-1,3-diol and benzene-1,4-diol. Chemical Physics Letters, 2012, 525-526, 140-143.	1.2	27
36	Investigation on terahertz vibrational modes of crystalline benzoic acid. Optics Communications, 2012, 285, 1593-1598.	1.0	19

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37	Application of terahertz spectroscopy and molecular modeling in isomers investigation: Glucose and fructose. Optics Communications, 2012, 285, 1868-1871.	1.0	41
38	Investigation on the Terahertz Absorption Spectra of the Molecules with Similar Molecular Structure. , 2012, , .		2
39	Numerical simulation of terahertz generation and detection based on ultrafast photoconductive antennas. Proceedings of SPIE, 2011, , .	0.8	1
40	Broadband terahertz spectroscopy (Invited Paper). Chinese Optics Letters, 2011, 9, 110008-110013.	1.3	1
41	Image enhancement techniques used for THz imaging. Proceedings of SPIE, 2011, , .	0.8	7
42	Low-frequency vibrational modes of benzoic acid investigated by terahertz time-domain spectroscopy and theoretical simulations. Proceedings of SPIE, 2011, , .	0.8	0
43	Biased electric field analysis of a photoconductive antenna for terahertz generation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 637, S165-S167.	0.7	3
44	Broadband terahertz time-domain spectroscopy of drugs-of-abuse and the use of principal component analysis. Analyst, The, 2009, 134, 1658.	1.7	70
45	Simulation analysis of the antenna structure for terahertz generation. , 2009, , .		2
46	Characteristic research of photoconductive antenna for broadband THz generation. Proceedings of SPIE, 2009, , .	0.8	3
47	Terahertz spectroscopy of explosives and drugs. Materials Today, 2008, 11, 18-26.	8.3	447
48	Inscription high-fringe visibility Fabry-Perot etalon in fiber with a high numerical aperture objective and femtosecond laser. Laser Physics, 2008, 18, 988-991.	0.6	3
49	Broadband terahertz time-domain spectroscopy of drugs-of-abuse mixtures and ‘street‘ samples. , 2008, , .		1
50	3D FDTD simulation of spatiotemporal shaping and filtering of terahertz pulses through metal slits with finite thickness. , 2008, , .		0
51	Broadband terahertz time-domain and Raman spectroscopy of explosives. , 2007, 6549, 40.		18
52	Time-domain terahertz spectroscopy and applications on drugs and explosives. , 2007, , .		4
53	Excitation-density-dependent generation of broadband terahertz radiation in an asymmetrically excited photoconductive antenna. Optics Letters, 2007, 32, 2297.	1.7	52
54	Far-Infrared Spectroscopic Characterization of Explosives for Security Applications Using Broadband Terahertz Time-Domain Spectroscopy. Applied Spectroscopy, 2007, 61, 638-643.	1.2	99

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55	Phonon satellites and time-resolved studies of carrier recombination dynamics in InGaN quantum wells. Superlattices and Microstructures, 2007, 41, 419-424.	1.4	6
56	Analysis of drugs-of-abuse and explosives using terahertz time-domain and Raman spectroscopy. , 2006, , .		10
57	Complementary spectroscopic studies of materials of security interest. , 2006, 6402, 74.		8
58	Time-resolved photoluminescence studies of carrier diffusion in GaN. Applied Physics Letters, 2006, 89, 072107.	1.5	10
59	Optical investigation of InGaNâˆ•GaN multiple-quantum wellsunder high excitation. Applied Physics Letters, 2004, 84, 5159-5161.	1.5	15
60	Femtosecond studies of electron capture times in InGaN/GaN multiple quantum wells. Applied Physics Letters, 2004, 84, 3052-3054.	1.5	14
61	Study of stimulated emission from InGaN/GaN multiple quantum well structures. Journal of Crystal Growth, 2004, 273, 48-53.	0.7	8
62	Carrier capture times in InGaN/GaN multiple quantum wells. Physica Status Solidi (B): Basic Research, 2003, 240, 364-367.	0.7	10
63	Ultrafast Dynamics of Dye Molecules in Solution as a Function of Temperature. Journal of Physical Chemistry A, 2003, 107, 1914-1917.	1.1	35
64	Ultrafast Vibrational and Thermal Relaxation of Dye Molecules in Solutions. Journal of Physical Chemistry A, 2003, 107, 10857-10861.	1.1	51
65	Ultrafast nonlinear response of AlGaAs two-dimensional photonic crystal waveguides. Applied Physics Letters, 2003, 83, 851-853.	1.5	76
66	Effect of the growth conditions on infrared upconversion efficiency of CaS: Eu, Sm thin films. Applied Physics A: Materials Science and Processing, 2001, 73, 115-119.	1.1	5
67	CaS:Eu,Sm films prepared by pulsed laser deposition. , 2000, , .		0
68	Electron trapping materials for use in a picosecond infrared streak camera. Review of Scientific Instruments, 1999, 70, 4482-4486.	0.6	2
69	Picosecond infrared laser stimulation of luminescence in CaS:Eu,Sm. Journal of Applied Physics, 1999, 85, 451-454.	1.1	17
70	Picosecond infrared streak camera with up-converting material. , 1999, , .		0