Hongwei Zhao

List of Publications by Year
in descending order

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48 papers	1,329 citations	516710 16 h-index	345221 36 g-index
48 all docs	48 docs citations	48 times ranked	1442 citing authors

#	Article	IF	Citations
1	The fingerprints of nifedipine/isonicotinamide cocrystal polymorph studied by terahertz time-domain spectroscopy. International Journal of Pharmaceutics, 2022, 620, 121759.	5.2	7
2	Ultra-broadband terahertz fingerprint spectrum of melatonin with vibrational mode analysis. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 247, 119141.	3.9	22
3	Application of terahertz spectroscopy on monitoring crystallization and isomerization of azobenzene. Optics Express, 2021, 29, 14894.	3.4	7
4	Electron-ion collider in China. Frontiers of Physics, 2021, 16, 1.	5.0	208
5	Probing lattice vibration of alkali halide crystals by broadband terahertz spectroscopy. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2021, 254, 119671.	3.9	3
6	Terahertz spectroscopy of enantiomeric and racemic pyroglutamic acid. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 225, 117509.	3.9	18
7	Far-infrared terahertz properties of L-cysteine and its hydrochloride monohydrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2020, 225, 117476.	3.9	13
8	Observation of a high degree of stopping for laser-accelerated intense proton beams in dense ionized matter. Nature Communications, 2020, 11, 5157.	12.8	29
9	Broadband terahertz signatures and vibrations of dopamine. Analyst, The, 2020, 145, 6006-6013.	3.5	21
10	Terahertz Signatures of Hydrate Formation in Alkali Halide Solutions. Journal of Physical Chemistry Letters, 2020, 11, 7146-7152.	4.6	14
11	Probing NaCl hydrate formation from aqueous solutions by terahertz time-domain spectroscopy. Physical Chemistry Chemical Physics, 2020, 22, 17791-17797.	2.8	11
12	Overview and summary of the 18th International Conference on Ion Sources, Lanzhou, China, 2019. Review of Scientific Instruments, 2020, 91, 041601.	1.3	0
13	The Hydration Shell of Monomeric and Dimeric Insulin Studied by Terahertz Time-Domain Spectroscopy. Biophysical Journal, 2019, 117, 533-541.	0.5	5
14	Broadband terahertz recognizing conformational characteristics of a significant neurotransmitter Î³-aminobutyric acid. RSC Advances, 2019, 9, 20240-20247.	3.6	17
15	Characteristic fingerprint spectrum of neurotransmitter norepinephrine with broadband terahertz time-domain spectroscopy. Analyst, The, 2019, 144, 2504-2510.	3.5	35
16	Terahertz electromagnetically-induced transparency of self-complementary meta-molecules on Croatian checkerboard. Scientific Reports, 2019, 9, 6205.	3.3	10
17	Superconducting Magnets for High Performance ECR Ion Sources. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	10
18	Frequency-dependent absorbance of broadband terahertz wave in dense plasma sheet. Applied Physics B: Lasers and Optics, 2018, 124, 1.	2.2	2

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19	Non-thermal hydrogen plasma processing effectively increases the antibacterial activity of graphene oxide. Applied Physics Letters, 2018, 112, .	3.3	13
20	Terahertz time-domain spectroscopy of l-histidine hydrochloride monohydrate. Journal of Molecular Structure, 2018, 1157, 486-491.	3.6	22
21	Mechanical Design of a Nb3Sn Superconducting Magnet System for a 45 GHz ECR Ion Source. IEEE Transactions on Applied Superconductivity, 2018, 28, 1-6.	1.7	24
22	Terahertz spectroscopic investigation of gallic acid and its monohydrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2018, 190, 40-46.	3.9	17
23	Monitoring cis-to-trans isomerization of azobenzene using terahertz time-domain spectroscopy. Physical Chemistry Chemical Physics, 2018, 20, 27205-27213.	2.8	17
24	Preparation of freestanding graphene-based laminar membrane for clean-water intake via forward osmosis process. RSC Advances, 2017, 7, 1326-1335.	3.6	21
25	Terahertz spectra of l-phenylalanine and its monohydrate. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2017, 178, 19-23.	3.9	32
26	Formation and Stability of Bulk Nanobubbles Generated by Ethanolâ€“Water Exchange. ChemPhysChem, 2017, 18, 1345-1350.	2.1	89
27	Terahertz Spectra of Ninhydrin and Indane-1,2,3-Trione. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 896-908.	2.2	5
28	Suppression of terahertz dipole oscillation in split-ring resonators deformed from square to triangle. Applied Physics A: Materials Science and Processing, 2017, 123, 1.	2.3	4
29	Isomers Identification of 2-hydroxyglutarate acid disodium salt (2HG) by Terahertz Time-domain Spectroscopy. Scientific Reports, 2017, 7, 12166.	3.3	36
30	The Influence of Element Deformation on Terahertz Mode Interaction in Split-Ring Resonator-Based Meta-Atoms. Plasmonics, 2017, 12, 1391-1398.	3.4	2
31	Ultra-Broadband THz Antireflective Coating with Polymer Composites. Polymers, 2017, 9, 574.	4.5	9
32	Terahertz identification and quantification of neurotransmitter and neurotrophy mixture. Biomedical Optics Express, 2016, 7, 4472.	2.9	46
33	Unexpectedly Enhanced Solubility of Aromatic Amino Acids and Peptides in an Aqueous Solution of Divalent Transition-Metal Cations. Physical Review Letters, 2016, 117, 238102.	7.8	41
34	Hydrogen bond network in the hydration layer of the water confined in nanotubes increasing the dielectric constant parallel along the nanotube axis. Journal of Chemical Physics, 2015, 143, 114708.	3.0	14
35	RF and field measurements of the SSC-LINAC RFQ. Science China: Physics, Mechanics and Astronomy, 2014, 57, 1311-1317.	5.1	3
36	A Dualâ€Resonant Metamaterial in Terahertz Regime. Microwave and Optical Technology Letters, 2013, 55, 2095-2099.	1.4	1

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37	RF system of HIRFL-CSRe. Science China: Physics, Mechanics and Astronomy, 2012, 55, 44-47.	5.1	2
38	Solid-state reaction between p-benzoquinone and 4,4â€²-biphenol: a THz time-domain spectroscopic study. Journal of Applied Spectroscopy, 2011, 78, 318-325.	0.7	0
39	Quantitative measurement of mixtures by terahertz time-domain spectroscopy. Journal of Chemical Sciences, 2009, 121, 515-520.	1.5	8
40	First mass measurement of short-lived nuclides at HIRFL-CSR. Science Bulletin, 2009, 54, 4749-4752.	9.0	19
41	Terahertz time-domain spectroscopic investigation on quinones. Science in China Series B: Chemistry, 2008, 51, 354-358.	0.8	4
42	Coherent heterodyne time-domain spectrometry covering the entire â€œterahertz gapâ€• Applied Physics Letters, 2008, 92, .	3.3	301
43	Terahertz Time-Domain Spectroscopy of Four Hydroxycinnamic Acid Derivatives. Journal of Biological Physics, 2007, 32, 403-412.	1.5	17
44	SDS-PAGE study on photooxidation damage of lysozyme induced by riboflavin. Science in China Series B: Chemistry, 2007, 50, 84-90.	0.8	8
45	Commissioning of HIRFL-CSR and its Electron Coolers. AIP Conference Proceedings, 2006, , .	0.4	3
46	Spectroscopic studies on the interaction between riboflavin and albumins. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2006, 65, 811-817.	3.9	124
47	Terahertz time-domain spectroscopy of some pentoses. Science in China Series B: Chemistry, 2006, 49, 204-208.	0.8	8
48	Transient species and its properties of melatonin. Science in China Series B: Chemistry, 2006, 49, 308-314.	0.8	7