

Design of high-energy terahertz sources based on optical

Optics Express

18, 12311

DOI: [10.1364/oe.18.012311](https://doi.org/10.1364/oe.18.012311)

Citation Report

#	ARTICLE	IF	CITATIONS
10	Design of Rectangular Transmission Gratings Fabricated in LiNbO ₃ for High-Power Terahertz-Wave Generation. Japanese Journal of Applied Physics, 2010, 49, 122504.	0.8	23
11	Mobile source of high-energy single-cycle terahertz pulses. Applied Physics B: Lasers and Optics, 2010, 101, 11-14.	1.1	66
12	Terahertz generation with tilted-front laser pulses: dynamic theory for low-absorbing crystals. Journal of the Optical Society of America B: Optical Physics, 2011, 28, 1724.	0.9	34
13	Intense terahertz pulse induced exciton generation in carbon nanotubes. Optics Express, 2011, 19, 1528.	1.7	73
14	Real-time terahertz near-field microscope. Optics Express, 2011, 19, 8277.	1.7	126
15	Towards generation of mJ-level ultrashort THz pulses by optical rectification. Optics Express, 2011, 19, 15090.	1.7	133
16	Design of high-energy terahertz sources based on optical rectification: erratum. Optics Express, 2011, 19, 22950.	1.7	8
17	Terahertz Spectroscopy. Analytical Chemistry, 2011, 83, 4342-4368.	3.2	350
18	Intense ultrashort terahertz pulses: generation and applications. Journal Physics D: Applied Physics, 2011, 44, 083001.	1.3	307
19	THz Nonlinear Spectroscopy of Solids. IEEE Transactions on Terahertz Science and Technology, 2011, 1, 301-312.	2.0	103
20	Toward High-Power Terahertz Emitters Using Large Aperture ZnSe Photoconductive Antennas. IEEE Photonics Journal, 2011, 3, 174-186.	1.0	29
21	Single-cycle terahertz pulses with amplitudes exceeding 1 MV/cm generated by optical rectification in LiNbO ₃ . Applied Physics Letters, 2011, 98, .	1.5	711
22	High Energy THz Pulse Generation by Tilted Pulse Front Excitation and Its Nonlinear Optical Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2011, 32, 553-561.	1.2	17
23	Compact and cost-effective scheme for THz generation via optical rectification in GaP and GaAs using novel fs laser oscillators. Applied Physics B: Lasers and Optics, 2011, 103, 45-50.	1.1	11
24	Generation of high power tunable multicycle terahertz pulses. Applied Physics Letters, 2011, 99, .	1.5	86
25	The Dawn of Ultrafast Nonlinear Optics in the Terahertz Regime. Springer Series in Optical Sciences, 2012, , 297-323.	0.5	5
26	Bandwidth tunable THz wave generation in large-area periodically poled lithium niobate. Optics Express, 2012, 20, 8784.	1.7	30
27	Terahertz difference-frequency generation by tilted amplitude front excitation. Optics Express, 2012, 20, 28573.	1.7	13

#	ARTICLE	IF	CITATIONS
28	Avoiding temporal distortions in tilted pulses. Optics Letters, 2012, 37, 2373.	1.7	20
29	Low-cost ultra-thin broadband terahertz beam-splitter. Optics Express, 2012, 20, 4968.	1.7	25
30	High-efficiency terahertz pulse generation via optical rectification by suppressing stimulated Raman scattering process. Optics Express, 2012, 20, 6509.	1.7	44
31	High-efficient THz electric pulse generation via optical rectification by suppressing stimulated Raman scattering. , 2012, , .		0
32	Single-cycle terahertz pulses with amplitudes exceeding 1 MV/cm generated by optical rectification in LiNbO ₃ and applications to nonlinear optics. Proceedings of SPIE, 2012, , .	0.8	1
33	Design of a contact grating setup for mJ-energy THz pulse generation by optical rectification. Applied Physics B: Lasers and Optics, 2012, 108, 821-826.	1.1	26
34	Generation of sub-mJ terahertz pulses by optical rectification. Optics Letters, 2012, 37, 557.	1.7	215
35	Energy conversion efficiency calculation model for direct-bonding planar-waveguide THz emitters based on optical rectification effects in GaAs. Proceedings of SPIE, 2012, , .	0.8	0
36	Single-shot measurement of a terahertz electric-field waveform using a reflective echelon mirror. Applied Physics Letters, 2013, 103, .	1.5	61
37	3D terahertz beam profiling. Proceedings of SPIE, 2013, , .	0.8	2
38	Terahertz generation by tilted-front laser pulses in weakly and strongly nonlinear regimes. Applied Physics Letters, 2013, 103, 251103.	1.5	42
39	High-power terahertz pulse generation and application to nonlinear spectroscopy. , 2013, , .		0
40	Single-shot terahertz spectrometer using an echelon mirror and air plasma. , 2013, , .		0
41	Nonlinear Optical Phenomena Induced by Intense Single-Cycle Terahertz Pulses. IEEE Journal of Selected Topics in Quantum Electronics, 2013, 19, 8401110-8401110.	1.9	26
42	High conversion efficiency, high energy terahertz pulses by optical rectification in cryogenically cooled lithium niobate. Optics Letters, 2013, 38, 796.	1.7	245
43	Pump pulse width and temperature effects in lithium niobate for efficient THz generation. Optics Letters, 2013, 38, 5373.	1.7	41
44	Optimization of single-cycle terahertz generation in LiNbO ₃ for sub-50 femtosecond pump pulses. Optics Express, 2013, 21, 6826.	1.7	36
45	Compact electron acceleration and bunch compression in THz waveguides. Optics Express, 2013, 21, 9792.	1.7	98

#	ARTICLE	IF	CITATIONS
46	Fast three-dimensional terahertz computed tomography using real-time line projection of intense terahertz pulse. <i>Optics Express</i> , 2013, 21, 2423.	1.7	58
47	Generation of high-energy and broadband terahertz radiation via coherent synthesis. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2013, 46, 245402.	0.6	2
48	Terahertz emission from ZnGeP ₂ : phase-matching, intensity, and length scalability. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 2882.	0.9	16
49	Nonlinear Terahertz Spectroscopy in Solids with Single-Cycle Terahertz Pulses. <i>EPJ Web of Conferences</i> , 2013, 41, 09015.	0.1	0
50	Terahertz pulse generation from bulk GaAs by a tilted-pulse-front excitation at 1.8 μm . <i>Applied Physics Letters</i> , 2014, 105, .	1.5	44
51	Soliton-like propagation of broadband terahertz pulses in a system of tunnel junctions. <i>Journal of Experimental and Theoretical Physics</i> , 2014, 119, 423-437.	0.2	17
52	Theoretical Investigation on THz Generation from Optical Rectification with Tilted-Pulse-Front Excitation. <i>Chinese Physics Letters</i> , 2014, 31, 124201.	1.3	2
53	0.4 mJ THz Pulses by Optical Rectification. , 2014, , .		0
54	Terahertz generation with tilted-front laser pulses in a contact-grating scheme. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2014, 31, 2549.	0.9	41
55	Efficient generation of THz pulses with 04 mJ energy. <i>Optics Express</i> , 2014, 22, 20155.	1.7	207
56	Terahertz generation in lithium niobate driven by Ti:sapphire laser pulses and its limitations. <i>Optics Letters</i> , 2014, 39, 5403.	1.7	68
57	Limitations to THz generation by optical rectification using tilted pulse fronts. <i>Optics Express</i> , 2014, 22, 20239.	1.7	90
58	Contact grating device with Fabry-Perot resonator for effective terahertz light generation. <i>Optics Letters</i> , 2014, 39, 5439.	1.7	37
59	Efficient terahertz wave generation from GaP crystals pumped by chirp-controlled pulses from femtosecond photonic crystal fiber amplifier. <i>Applied Physics Letters</i> , 2014, 104, 031117.	1.5	18
60	800-fs, 330- μJ pulses from a 100-W regenerative Yb:YAG thin-disk amplifier at 300 μm and THz generation in LiNbO ₃ . <i>Optics Letters</i> , 2014, 39, 6604.	1.7	53
61	High energy Yb:CaF ₂ femtosecond laser for efficient terahertz generation in lithium niobate. , 2014, , .		0
62	On the generation of terahertz radiation by a phase-modulated optical pulse. <i>JETP Letters</i> , 2014, 98, 773-777.	0.4	7
63	The Polarization and Efficiency of the Terahertz Pulses Generated by Tilted-Pulse-Front Pumping Scheme. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2014, 35, 318-324.	1.2	7

#	ARTICLE	IF	CITATIONS
64	Design of a high-energy terahertz pulse source based on ZnTe contact grating. Optics Communications, 2014, 315, 159-163.	1.0	29
65	Optical terahertz bullets. JETP Letters, 2014, 98, 638-643.	0.4	10
66	Polarization-dependent study of THz air-biased coherent detection. Optics Letters, 2014, 39, 4096.	1.7	10
67	Enhanced spin-precession dynamics in a spin-metamaterial coupled resonator observed in terahertz time-domain measurements. Physical Review B, 2014, 90, .	1.1	42
68	Generation and Detection of THz Pulses With a Bandwidth Extending Beyond 4 THz Using a Subpicosecond Yb-Doped Fiber Laser System. IEEE Transactions on Terahertz Science and Technology, 2014, 4, 440-446.	2.0	20
69	A review of terahertz sources. Journal Physics D: Applied Physics, 2014, 47, 374001.	1.3	347
70	Efficient Generation of THz Pulses with 0.4 mJ Energy. , 2014, , .		2
71	Terahertz Conversion Efficiency Scaling by Optical Rectification in the 800 nm Pump-Wavelength Range. , 2014, , .		0
72	Yb:YAG thin-disk CPA laser system for intense THz pulse generation at 1 kHz repetition rate. , 2015, , .		0
73	Generation of Rabi-frequency radiation using exciton-polaritons. Physical Review A, 2015, 92, .	1.0	18
74	Absorption-reduced waveguide structure for efficient terahertz generation. Applied Physics Letters, 2015, 107, 233507.	1.5	8
75	Real-time observation of phonon-polariton dynamics in ferroelectric LiNbO ₃ in time-frequency space. Applied Physics Letters, 2015, 107, .	1.5	20
76	Growth, defect structure, and THz application of stoichiometric lithium niobate. Applied Physics Reviews, 2015, 2, 040601.	5.5	91
77	Nonlinear distortion of intense THz beams. New Journal of Physics, 2015, 17, 083041.	1.2	31
78	Optical depolarization in liquids and second harmonic generation from the surface induced by intense THz pulses. , 2015, , .		0
79	Optimization of terahertz generation from LiNbO ₃ under intense laser excitation with the effect of three-photon absorption. Optics Express, 2015, 23, 31313.	1.7	29
80	Terahertz-Field-Induced Nonlinear Electron Delocalization in Au Nanostructures. Nano Letters, 2015, 15, 1036-1040.	4.5	34
81	Analysis on THz Radiation Generation Efficiency in Optical Rectification by Tilted-Pulse-Front Pumping. Journal of Infrared, Millimeter, and Terahertz Waves, 2015, 36, 866-875.	1.2	1

#	ARTICLE	IF	CITATIONS
82	Damage threshold prediction of crystal materials irradiated by femtosecond lasers based on ionization model and two-temperature model. Optical Materials, 2015, 46, 444-449.	1.7	4
83	Study on conversion efficiency of optical-to-terahertz in optical rectification. , 2015, , .		0
84	Polarization dependent terahertz generation efficiency by optical rectification in LiNbO ₃ . Proceedings of SPIE, 2015, , .	0.8	0
85	Theory of terahertz generation by optical rectification using tilted-pulse-fronts. Optics Express, 2015, 23, 5253.	1.7	58
86	Yb:YAG thin-disk chirped pulse amplification laser system for intense terahertz pulse generation. Optics Express, 2015, 23, 15057.	1.7	28
87	THz generation from optical rectification tilted-pulse-front pumping scheme with laser pulse focused to a line. Proceedings of SPIE, 2015, , .	0.8	2
88	Impact ionization in high resistivity silicon induced by an intense terahertz field enhanced by an antenna array. New Journal of Physics, 2015, 17, 043002.	1.2	49
89	Effect of major factors on damage threshold of optical rectification crystals. Proceedings of SPIE, 2015, , .	0.8	0
90	Highly efficient terahertz pulse generation by optical rectification in stoichiometric and cryo-cooled congruent lithium niobate. Journal of Modern Optics, 2015, 62, 1486-1493.	0.6	60
91	Semiconductor THz source scalable to mJ energy. , 2016, , .		0
92	Generation of 019-mJ THz pulses in LiNbO ₃ driven by 800-nm femtosecond laser. Optics Express, 2016, 24, 14828.	1.7	26
93	High-energy terahertz pulses from semiconductors pumped beyond the three-photon absorption edge. Optics Express, 2016, 24, 23872.	1.7	48
94	Highly efficient scalable monolithic semiconductor terahertz pulse source. Optica, 2016, 3, 1075.	4.8	84
95	THz-induced Kerr effect in polar liquids. , 2016, , .		0
96	Hybrid tilted-pulse-front excitation scheme for efficient generation of high-energy terahertz pulses. , 2016, , .		0
97	Scalable broadband OPCPA in Lithium Niobate with signal angular dispersion. Optics Communications, 2016, 370, 250-255.	1.0	7
98	Possibility of high-energy THz generation in LiTaO ₃ . Applied Physics B: Lasers and Optics, 2016, 122, 1.	1.1	10
99	Intense terahertz radiation and their applications. Journal of Optics (United Kingdom), 2016, 18, 093004.	1.0	282

#	ARTICLE	IF	CITATIONS
100	Dynamical Nonlinear Interactions of Solids with Strong Terahertz Pulses. Journal of the Physical Society of Japan, 2016, 85, 082001.	0.7	24
101	High-efficiency contact grating fabricated on the basis of a Fabry-Pérot type resonator for terahertz wave generation. Japanese Journal of Applied Physics, 2016, 55, 012201.	0.8	5
102	Effects of chirp of pump pulses on broadband terahertz pulse spectra generated by optical rectification. Japanese Journal of Applied Physics, 2016, 55, 110305.	0.8	6
103	Damage threshold of lithium niobate crystal under single and multiple femtosecond laser pulses: theoretical and experimental study. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	13
104	THz generation using a reflective stair-step echelon. Optics Express, 2016, 24, 5057.	1.7	55
105	Hybrid tilted-pulse-front excitation scheme for efficient generation of high-energy terahertz pulses. Optics Express, 2016, 24, 8156.	1.7	22
106	Specialty Fibers for Terahertz Generation and Transmission: A Review. IEEE Journal of Selected Topics in Quantum Electronics, 2016, 22, 365-379.	1.9	55
107	Prospects of Semiconductor Terahertz Pulse Sources. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-8.	1.9	19
108	Coherent Terahertz Radiation from Multiple Electron Beams Excitation within a Plasmonic Crystal-like structure. Scientific Reports, 2017, 7, 41116.	1.6	9
109	Increased impedance near cut-off in plasma-like media leading to emission of high-power, narrow-bandwidth radiation. Scientific Reports, 2017, 7, 40034.	1.6	6
110	Review of terahertz photoconductive antenna technology. Optical Engineering, 2017, 56, 010901.	0.5	287
111	Time-Domain THz Spectroscopy Reveals Coupled Protein Hydration Dielectric Response in Solutions of Native and Fibrils of Human Lysozyme. Journal of Physical Chemistry B, 2017, 121, 4810-4816.	1.2	32
112	Optical emission of graphene and electron-hole pair production induced by a strong terahertz field. Physical Review B, 2017, 96, .	1.1	29
113	Terahertz induced optical birefringence in polar and nonpolar liquids. Journal of Chemical Physics, 2017, 147, 084507.	1.2	11
114	Design of a Multistep Phase Mask for High-Energy Terahertz Pulse Generation by Optical Rectification. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 1439-1447.	1.2	13
115	Chromatic effect in a novel THz generation scheme. New Journal of Physics, 2017, 19, 113025.	1.2	2
116	Optically generated terahertz pulses with strong quasistatic precursors. Physical Review A, 2017, 95, .	1.0	27
117	Optimization of the Tilted-Pulse-Front Terahertz Excitation Setup Containing Telescope. Journal of Infrared, Millimeter, and Terahertz Waves, 2017, 38, 22-32.	1.2	23

#	ARTICLE	IF	CITATIONS
118	Dual-grating dielectric accelerators driven by a pulse-front-tilted laser. Applied Optics, 2017, 56, 8201.	0.9	25
119	Numerical investigation of a scalable setup for efficient terahertz generation using a segmented tilted-pulse-front excitation. Optics Express, 2017, 25, 29560.	1.7	47
120	MV/cm terahertz pulses from relativistic laser-plasma interaction characterized by nonlinear terahertz absorption bleaching in n-doped InGaAs. Optics Express, 2017, 25, 17511.	1.7	7
121	Terahertz pulse generation by the tilted pulse front technique using an M-shaped optical system. Japanese Journal of Applied Physics, 2018, 57, 050304.	0.8	0
122	Single Crystals Based on Hydrogen-Bonding Mediated Cation-Anion Assembly with Extremely Large Optical Nonlinearity and Their Application for Intense THz Wave Generation. Advanced Optical Materials, 2018, 6, 1701258.	3.6	24
123	Terahertz Spectroscopy. , 2018, , 65-85.		5
124	Improvement of contact grating device for efficient terahertz wave generation using bi-angular filter. Journal of Applied Physics, 2018, 123, .	1.1	9
125	Efficient semiconductor multicycle terahertz pulse source. Journal of Physics B: Atomic, Molecular and Optical Physics, 2018, 51, 094007.	0.6	21
126	High-Speed Terahertz Waveform Measurement for Intense Terahertz Light using 100-kHz Yb-Doped Fiber Laser. , 2018, , .		0
127	Pulse Front Tilt Derived from a Digital Micromirror Device and its THz Application. , 2018, , .		0
128	Periodic Terahertz-Wave Generation Using a Photoconductive Antenna Array in a Rectangular Metal Waveguide. , 2018, , .		1
129	A modified tilted-pulse-front excitation scheme for efficient terahertz generation in LiNbO3. EPJ Web of Conferences, 2018, 195, 03001.	0.1	0
130	Terahertz induced optical second harmonic generation from silicon surface. EPJ Web of Conferences, 2018, 195, 06013.	0.1	1
131	Generation of propagating quasistatic fields using ultrashort laser pulses in electro-optic crystals. Journal of Physics: Conference Series, 2018, 1092, 012184.	0.3	0
132	Propagation of few-cycle pulses in a nonlinear medium and an integrable generalization of the sine-Gordon equation. Physical Review A, 2018, 98, .	1.0	28
133	Optical Rectification of a 100W Average Power Ultrafast Thin-Disk Oscillator. , 2018, , .		1
134	Efficient semiconductor source of multicycle terahertz pulses using intensity-modulated pump. , 2018, , .		1
135	High-Speed Terahertz Waveform Measurement for Intense Terahertz Light Using 100-kHz Yb-Doped Fiber Laser. Sensors, 2018, 18, 1936.	2.1	1

#	ARTICLE	IF	CITATIONS
136	Nonlinear distortion and spatial dispersion of intense terahertz generation in lithium niobate via the tilted pulse front technique. <i>Photonics Research</i> , 2018, 6, 959.	3.4	12
137	Enhanced detection sensitivity of terahertz magnetic nearfield with cryogenically-cooled magneto-optical sampling in terbium-gallium-garnet. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	35
138	Measurement of a phonon-polariton dispersion curve by varying the excitation wavelength. <i>Physical Review B</i> , 2018, 97, .	1.1	4
139	Highly efficient generation of 0.2 mJ terahertz pulses in lithium niobate at room temperature with sub-50 fs chirped Ti:sapphire laser pulses. <i>Optics Express</i> , 2018, 26, 7107.	1.7	73
140	Adaptive spatiotemporal optical pulse front tilt using a digital micromirror device and its terahertz application. <i>Optics Letters</i> , 2018, 43, 2090.	1.7	19
141	Highly Efficient Scalable Semiconductor Terahertz Sources. , 2019, , .		0
142	Free-Electron-Driven Multi-Frequency Terahertz Radiation on a Super-Grating Structure. <i>IEEE Access</i> , 2019, 7, 181184-181190.	2.6	13
143	Demonstration of a tilted-pulse-front pumped planar parallel slab terahertz source. <i>EPJ Web of Conferences</i> , 2019, 205, 01020.	0.1	0
144	Matter manipulation with extreme terahertz light: Progress in the enabling THz technology. <i>Physics Reports</i> , 2019, 836-837, 1-74.	10.3	147
145	Terahertz-optical intensity grating for creating high-charge, attosecond electron bunches. <i>New Journal of Physics</i> , 2019, 21, 033020.	1.2	12
146	Second harmonic generation in graphene dressed by a strong terahertz field. <i>Physical Review B</i> , 2019, 99, .	1.1	21
147	Expression of various polarization effects by using Spirulina-templated metal $\lambda/4$ coils at the terahertz frequency region. <i>Japanese Journal of Applied Physics</i> , 2019, 58, 032007.	0.8	3
148	Terahertz electric field modulated mode coupling in graphene-metal hybrid metamaterials. <i>Optics Express</i> , 2019, 27, 2317.	1.7	22
149	Optics, Photonics and Laser Technology 2018. Springer Series in Optical Sciences, 2019, , .	0.5	0
150	High Conversion Efficiency in a System of Nonlinear-Optical Crystal Partially Filling the Cross Section of a Rectangular Waveguide, , 2019, , .		0
151	Generation of a guided mode in a THz semiconductor waveguide using excitation by a tilted optical pulse front. , 2019, , .		0
152	Tilted-Pulse-Front Pumped Plane-Parallel LiNbO ₃ Slab THz Source. , 2019, , .		0
153	Terahertz generation by four-wave mixing and guidance in diatomic teflon photonic crystal fibers. <i>Optics Communications</i> , 2020, 454, 124460.	1.0	10

#	ARTICLE	IF	CITATIONS
154	Laser-Driven Strong-Field Terahertz Sources. <i>Advanced Optical Materials</i> , 2020, 8, 1900681.	3.6	211
155	Modulation characteristics of terahertz generation by dual-beam interference in conventional system using tilted-pulse-front pumped LiNbO ₃ . <i>Infrared Physics and Technology</i> , 2020, 109, 103434.	1.3	1
156	Growth of lithium niobate and potassium niobate single crystals using the Czochralski method with liquid and ceramic charging. <i>Solid State Sciences</i> , 2020, 108, 106355.	1.5	7
157	Nanotip response to monocycle terahertz pulses. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	7
158	Development of intense terahertz light source for forming periodic structures on material surface. <i>Electronics and Communications in Japan</i> , 2020, 103, 3-8.	0.3	0
159	Second-harmonic generation in zinc blende crystals under combined action of femtosecond optical and strong terahertz fields. <i>Quantum Electronics</i> , 2020, 50, 496-501.	0.3	7
160	Wide-Bandgap Organic Crystals: Enhanced Optical-to-Terahertz Nonlinear Frequency Conversion at Near-Infrared Pumping. <i>Advanced Optical Materials</i> , 2020, 8, 1902099.	3.6	15
161	1.4-mJ High Energy Terahertz Radiation from Lithium Niobates. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000295.	4.4	105
162	High-Field Terahertz Time-Domain Spectroscopy of Single-Walled Carbon Nanotubes and CuO. <i>Springer Theses</i> , 2021, , 89-110.	0.0	0
163	THz Generation Using the Tilted Pulse Front Method in the Limit of Small Beam Sizes. , 2021, , .		0
164	THz generation in organic crystal BNA at MHz repetition rates. , 2021, , .		0
165	Efficient generation of a high-field terahertz pulse train in bulk lithium niobate crystals by optical rectification. <i>Optics Express</i> , 2021, 29, 9624.	1.7	19
166	Hydrostatic pressure effect of photocarrier dynamics in GaAs probed by time-resolved terahertz spectroscopy. <i>Optics Express</i> , 2021, 29, 14058.	1.7	7
167	High Field Single- to Few-Cycle THz Generation with Lithium Niobate. <i>Photonics</i> , 2021, 8, 183.	0.9	6
168	THz pulses from optically excited Fe-, Pt- and Ta-based spintronic heterostructures. <i>Pramana - Journal of Physics</i> , 2021, 95, 1.	0.9	18
169	Limitation of THz conversion efficiency in DSTMS pumped by intense femtosecond pulses. <i>Optics Express</i> , 2021, 29, 22494-22503.	1.7	2
170	Analysis of THz generation using the tilted-pulse-front geometry in the limit of small pulse energies and beam sizes. <i>Optics Express</i> , 2021, 29, 18889.	1.7	8
171	Jitter-free terahertz pulses from LiNbO ₃ . <i>Optics Letters</i> , 2021, 46, 2944.	1.7	8

#	ARTICLE	IF	CITATIONS
172	Front-induced transitions control THz waves. Communications Physics, 2021, 4, .	2.0	2
173	Full 3D+1 modeling of tilted-pulse-front setups for single-cycle terahertz generation: comment. Journal of the Optical Society of America B: Optical Physics, 2021, 38, 2587.	0.9	2
174	Highly Nonlinear Optical Organic Crystals for Efficient Terahertz Wave Generation, Detection, and Applications. Advanced Optical Materials, 2021, 9, 2101019.	3.6	49
175	Optical damage limit of efficient spintronic THz emitters. IScience, 2021, 24, 103152.	1.9	19
176	THz cavities and injectors for compact electron acceleration using laser-driven THz sources. Physical Review Accelerators and Beams, 2017, 20, .	0.6	16
177	Efficient generation of extreme terahertz harmonics in three-dimensional Dirac semimetals. Physical Review Research, 2020, 2, .	1.3	29
178	Efficient Scalable Monolithic Semiconductor High-Energy Terahertz Pulse Source. , 2016, , .		1
179	Peak emission of terahertz waves from (110)-oriented ZnTe by interacting phase-matched phonon resonances. Journal of the Optical Society of America B: Optical Physics, 2019, 36, 1144.	0.9	5
180	Full 3D+1 modeling of tilted-pulse-front setups for single-cycle terahertz generation. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 1000.	0.9	13
181	Terahertz pulse induced femtosecond optical second harmonic generation in transparent media with cubic nonlinearity. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 789.	0.9	11
182	Broadband terahertz pulse generation driven by an ultrafast thin-disk laser oscillator. Optics Express, 2018, 26, 26377.	1.7	24
183	Efficient terahertz generation in highly nonlinear organic crystal HMB-TMS. Optics Express, 2018, 26, 30786.	1.7	24
184	Generalized analysis of terahertz generation by tilted-pulse-front excitation in a LiNbO ₃ prism. Optics Express, 2019, 27, 2396.	1.7	15
185	Analysis of terahertz generation using tilted pulse fronts. Optics Express, 2019, 27, 3496.	1.7	11
186	Tilted-pulse-front excitation of strong quasistatic precursors. Optics Express, 2019, 27, 5154.	1.7	22
187	Numerical investigation of imaging-free terahertz generation setup using segmented tilted-pulse-front excitation. Optics Express, 2019, 27, 7762.	1.7	30
188	Analysis of terahertz generation by beamlet superposition. Optics Express, 2019, 27, 26547.	1.7	3
189	Highly efficient Cherenkov-type terahertz generation by 2- $\frac{1}{4}$ m wavelength ultrashort laser pulses in a prism-coupled LiNbO ₃ layer. Optics Express, 2019, 27, 36059.	1.7	20

#	ARTICLE	IF	CITATIONS
190	Measurement of four-photon absorption in GaP and ZnTe semiconductors. Optics Express, 2020, 28, 12352.	1.7	6
191	Long propagating velocity-controlled Einsteinâ€™s mirror for terahertz light conversion. Optics Express, 2020, 28, 33084.	1.7	2
192	Lithium niobate and lithium tantalate based scalable terahertz pulse sources in reflection geometry. Optics Express, 2020, 28, 34320.	1.7	8
193	Single-cycle, MHz repetition rate THz source with 66 mW of average power. Optics Letters, 2020, 45, 2494.	1.7	54
194	Optical rectification of a 100â€™%â€™W average power mode-locked thin-disk oscillator. Optics Letters, 2018, 43, 5909.	1.7	27
195	Demonstration of a tilted-pulse-front pumped plane-parallel slab terahertz source. Optics Letters, 2019, 44, 1023.	1.7	36
196	Temperature-dependent terahertz time-domain spectroscopy study of Mg-doped stoichiometric lithium niobate. Optical Materials Express, 2020, 10, 998.	1.6	15
197	Programmable generation of terahertz bursts in chirped-pulse laser amplification. Optica, 2020, 7, 1758.	4.8	17
198	Multi-MV/cm longitudinally polarized terahertz pulses from laserâ€™thin foil interaction. Optica, 2018, 5, 1474.	4.8	23
199	Diffraction-Limited High-Power Single-Cycle Terahertz Pulse Generation in Prism-Cut LiNbO ₃ for Precise Terahertz Applications. Journal of the Optical Society of Korea, 2014, 18, 60-64.	0.6	12
200	Milliwatt-average power broadband THz source at 13.3 MHz repetition rate using diamond-cooled organic crystal BNA. , 2021, , .		0
201	Broadband and Highâ€™Sensitivity Timeâ€™Resolved THz System Using Gratingâ€™Assisted Tiltedâ€™Pulseâ€™Front Phase Matching. Advanced Optical Materials, 2022, 10, 2101136.	3.6	8
202	High energy THz pulse generation by tilted pulse front excitation and its applications. , 2010, , .		0
203	Applications of Tilted-Pulse-Front Excitation. , 0, , .		0
204	Towards Generation of mJ-Level Ultrashort THz Pulses by Optical Rectification. , 2011, , .		0
205	High-Power Terahertz Pulse Generation and Nonlinear Terahertz Spectroscopy. The Review of Laser Engineering, 2012, 40, 480.	0.0	0
206	Generation and Application Possibilities of Terahertz Pulses with Extremely High Field Strength. , 2012, , .		0
207	GaP terahertz emitter with micro-pyramid anti-reflection layer. Wuli Xuebao/Acta Physica Sinica, 2012, 61, 040703.	0.2	2

#	ARTICLE	IF	CITATIONS
208	Towards Generation of mJ-Level Ultrashort THz Pulses by Optical Rectification. , 2012, , .		0
209	Shingle-Shot Observation of THz Field with a Reflective Echelon Mirror. , 2013, , .		0
210	Highly efficient THz pulse generation from optical rectification in cryogenically cooled lithium niobate. , 2013, , .		0
212	High-Energy Terahertz Pulses from Semiconductors Pumped Above the Three-Photon Absorption Edge. , 2016, , .		0
213	Optimization of terahertz generation from LiNbO ₃ under intense laser excitation with the effect of three-photon absorption. , 2016, , .		0
214	Design of a multistep phase mask for high-energy THz pulse generation in ZnTe crystal. , 2017, , .		0
215	Scalable setup for efficient terahertz generation using a segmented tilted-pulse-front excitation. , 2018, , .		0
216	Optical rectification for a new shot to shot feedback system for laser-driven plasma wakefield accelerators. , 2018, , .		0
217	Microstructured Intense THz Sources. , 2019, , .		0
218	A Dual-Wavelength Widely Tunable C-Band SOA-Based Fiber Laser for Continuous Wave Terahertz Generation. Springer Series in Optical Sciences, 2019, , 119-141.	0.5	1
220	Robust optimization of single-cycle THz setups based on phase-matching via tilted pulse fronts using an incident-fluence metric. , 2020, , .		1
221	Development of Intense Terahertz Light Source for Forming Periodic Structures on Material Surface. IEEJ Transactions on Fundamentals and Materials, 2020, 140, 378-382.	0.2	0
222	Generation of Continuously-Tunable, Narrowband THz Pulses from Phase-Locked Femtosecond Pulse Bursts. , 2020, , .		0
223	Highly efficient THz pulse generation in semiconductors utilizing contact-gratings technology. , 2020, , .		0
224	Temperature-Dependent Terahertz Time-Domain Spectroscopy of Mg-doped Stoichiometric Lithium Niobate. , 2020, , .		0
225	Generation of Continuously-Tunable, Narrowband THz Pulses from Phase-Locked Femtosecond Pulse Bursts. , 2020, , .		0
226	Maximal terahertz emission in high harmonic generation from 3D Dirac semimetals. Communications Physics, 2021, 4, .	2.0	4
227	Multicycle terahertz pulse generation by optical rectification in LiNbO ₃ , LiTaO ₃ , and BBO crystals. Optics Express, 2020, 28, 21220.	1.7	9

#	ARTICLE	IF	CITATIONS
230	High-average power THz generation in the tilted pulse front geometry in Lithium Niobate. , 2020, , .		0
231	Noncollinear electro-optic sampling detection of terahertz pulses in a LiNbO ₃ crystal while avoiding the effect of intrinsic birefringence. Optics Express, 2022, 30, 3741.	1.7	5
232	Terahertz-field-induced second optical harmonic generation from Si(111) surface. Physical Review B, 2022, 105, .	1.1	6
233	A polarization device of active controlled terahertz amplitude and frequency shift. Optical Materials Express, 0, , .	1.6	1
234	Polarization-controlled terahertz generation by bicircular longer-wavelength laser fields. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 1370.	0.9	8
236	Parameter sensitivities in tilted-pulse-front based terahertz setups and their implications for high-energy terahertz source design and optimization. Optics Express, 2022, 30, 24186.	1.7	8
238	Spatiotemporal modeling of direct acceleration with high-field terahertz pulses. Optics Express, 2022, 30, 32861.	1.7	3
239	Interaction Lengths in Tilted-pulse-front Terahertz Setups. , 2022, , .		0
240	Enhanced Forward Thz Yield from the Long Dc-Biased Femtosecond Filament. SSRN Electronic Journal, 0, , .	0.4	0
241	Scalable microstructured semiconductor THz pulse sources. Optics Express, 2022, 30, 45246.	1.7	3
242	Investigation of terahertz pulse generation in semiconductors pumped at long infrared wavelengths. Journal of the Optical Society of America B: Optical Physics, 2022, 39, 2684.	0.9	5
243	Long range terahertz driven electron acceleration using phase shifters. Applied Physics Reviews, 2022, 9, .	5.5	6
244	Scalable optical-to-terahertz converter with a prism-coupled plane-parallel lithium niobate plate. Optics Express, 2022, 30, 35978.	1.7	0
245	Enhanced forward THz yield from the long DC-biased femtosecond filament. Optics and Laser Technology, 2023, 159, 108949.	2.2	3
246	Streaking of a Picosecond Electron Pulse with a Weak Terahertz Pulse. ACS Photonics, 2023, 10, 116-124.	3.2	0
247	Ultrafast electron diffraction: Visualizing dynamic states of matter. Reviews of Modern Physics, 2022, 94, .	16.4	33
248	Efficient generation of intense broadband terahertz pulses from quartz. Applied Physics Letters, 2023, 122, .	1.5	4
249	Probing the photocarrier dynamics of pressurized graphene using time-resolved Terahertz spectroscopy. Chinese Physics B, 0, , .	0.7	0

#	ARTICLE	IF	CITATIONS
250	Studying Oral Tissue via Real-Time High-Resolution Terahertz Spectroscopic Imaging. Physical Review Applied, 2023, 19, .	1.5	6
251	Observation of terahertz-induced dynamical spin canting in orthoferrite magnon by magnetorefractive probing. Communications Physics, 2023, 6, .	2.0	7
262	Tilted pulse front pumping techniques for efficient terahertz pulse generation. Light: Science and Applications, 2023, 12, .	7.7	1
263	Scaling Tilted-Pulse-Front Based THz Setups by Control of the Spatio-Temporally Coupled Pump Pulse Parameters. , 2023, , .		0