

Kai Zhong

List of Publications by Year in descending order

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107
papers

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108
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108
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562
citing authors

#	ARTICLE	IF	CITATIONS
1	High-average-power, high-repetition-rate tunable terahertz difference frequency generation with GaSe crystal pumped by 2 μm dual-wavelength intracavity KTP optical parametric oscillator. Photonics Research, 2017, 5, 82.	7.0	52
2	Defect Engineering of MoS ₂ for Room-Temperature Terahertz Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 7351-7357.	8.0	52
3	Optically pumped terahertz sources. Science China Technological Sciences, 2017, 60, 1801-1818.	4.0	44
4	Efficient Continuous-Wave 1053-nm Nd:GYSGG Laser With Passively Q-Switched Dual-Wavelength Operation for Terahertz Generation. IEEE Journal of Quantum Electronics, 2013, 49, 375-379.	1.9	39
5	Optical parametric oscillation in a random polycrystalline medium. Optica, 2017, 4, 617.	9.3	37
6	Efficient diode-end-pumped dual-wavelength Nd, Gd:YSGG laser. Optics Letters, 2011, 36, 3813.	3.3	36
7	Green laser induced terahertz tuning range expanding in KTiOPO ₄ terahertz parametric oscillator. Applied Physics Letters, 2016, 108, .	3.3	32
8	Enhancement of terahertz wave difference frequency generation based on a compact walk-off compensated KTP OPO. Optics Communications, 2010, 283, 3520-3524.	2.1	29
9	Widely-tunable high-repetition-rate terahertz generation in GaSe with a compact dual-wavelength KTP OPO around 2 μm . Optics Express, 2016, 24, 23368.	3.4	29
10	High-pulse-energy high-efficiency mid-infrared generation based on KTA optical parametric oscillator. Applied Physics B: Lasers and Optics, 2010, 100, 749-753.	2.2	28
11	Coupled-Mode Theory for Cherenkov-Type Guided-Wave Terahertz Generation Via Cascaded Difference Frequency Generation. Journal of Lightwave Technology, 2013, 31, 2508-2514.	4.6	25
12	Linear optical properties of ZnGeP ₂ in the terahertz range. Optical Materials Express, 2017, 7, 3571.	3.0	25
13	High-energy, tunable, long-wave mid-infrared optical parametric oscillator based on BaGa ₄ Se ₇ crystal. Optics Letters, 2020, 45, 5287.	3.3	23
14	Efficient electro-optic Q-switched eye-safe optical parametric oscillator based on KTiAsO ₄ . Applied Physics B: Lasers and Optics, 2009, 97, 61-66.	2.2	19
15	Compact and stable high-repetition-rate terahertz generation based on an efficient coaxially pumped dual-wavelength laser. Optics Express, 2017, 25, 31988.	3.4	19
16	Continuous-wave Nd:GYSGG laser around 1.3 μm . Laser Physics Letters, 2012, 9, 491-495.	1.4	17
17	High-Repetition-Rate Terahertz Generation in QPM GaAs With a Compact Efficient 2- μm μm KTP OPO. IEEE Photonics Technology Letters, 2016, 28, 1501-1504.	2.5	17
18	High-power terahertz radiation from surface-emitted THz-wave parametric oscillator. Chinese Physics B, 2011, 20, 054207.	1.4	16

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19	Compact High-Repetition-Rate Monochromatic Terahertz Source Based on Difference Frequency Generation from a Dual-Wavelength Nd:YAG Laser and DAST Crystal. <i>Journal of Infrared, Millimeter, and Terahertz Waves</i> , 2017, 38, 87-95.	2.2	16
20	Injection pulse-seeded terahertz-wave parametric generator with gain enhancement in wide frequency range. <i>Optics Express</i> , 2019, 27, 22808.	3.4	12
21	Widely tunable eye-safe optical parametric oscillator with noncollinear phase-matching in a ring cavity. <i>Optics Express</i> , 2019, 27, 10449.	3.4	11
22	Ultrahigh birefringent polymer terahertz fiber based on a near-tie unit. <i>Journal of Optics (United Kingdom)</i> , 2019, 10, 106001.	2.2	10
23	Stimulated emission cross section of the $4F_3/2 \rightarrow 4I_{11}/2$ of Nd:GYSGG. <i>Laser Physics Letters</i> , 2012, 9, 410-414.	1.4	10
24	Simultaneous dual-wavelength eye-safe KTP OPO intracavity pumped by a Nd:GYSGG laser. <i>Journal of Physics D: Applied Physics</i> , 2016, 49, 065101.	2.8	10
25	Application of terahertz time-domain spectroscopy in atmospheric pressure plasma jet diagnosis. <i>Results in Physics</i> , 2020, 16, 102928.	4.1	10
26	Dual-wavelength intracavity Raman laser driven by a coaxially pumped dual-crystal fundamental laser. <i>Optics Express</i> , 2019, 27, 27797.	3.4	10
27	Theory of monochromatic terahertz generation via Cherenkov phase-matched difference frequency generation in LiNbO ₃ crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2012, 29, 2425.	2.1	9
28	Compact and Flexible Dual-Wavelength Laser Generation in Coaxial Diode-End-Pumped Configuration. <i>IEEE Photonics Journal</i> , 2017, 9, 1-10.	2.0	9
29	Diode-pumped continuous-wave quasi-three-level Nd:GYSGG laser at 937nm. <i>Optics Communications</i> , 2013, 294, 229-232.	2.1	8
30	Compact, efficient and widely tunable 2- $\frac{1}{4}$ m high-repetition-rate optical parametric oscillators. <i>Optics Communications</i> , 2018, 426, 119-125.	2.1	8
31	Optical Terahertz Sources Based on Difference Frequency Generation in Nonlinear Crystals. <i>Crystals</i> , 2022, 12, 936.	2.2	8
32	High Repetition Rate, Tunable Mid-Infrared BaGa ₄ Se ₇ Optical Parametric Oscillator Pumped by a 1 $\frac{1}{4}$ m Nd:YAG Laser. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 7197.	2.5	8
33	Multi-wavelength generation based on cascaded Raman scattering and self-frequency-doubling in KTA. <i>Laser Physics</i> , 2010, 20, 750-755.	1.2	7
34	Continuous-wave Nd:GYSGG laser properties in 1.3 and 1.4 μ m regions based on $4 \rightarrow 3/2$ to $4 \rightarrow 3/2$ transition. <i>Journal of Physics D: Applied Physics</i> , 2013, 46, 315106.	2.8	7
35	Theoretical analysis of terahertz generation in periodically inverted nonlinear crystals based on cascaded difference frequency generation process. <i>Modern Physics Letters B</i> , 2015, 29, 1450263.	1.9	7
36	Terahertz optical properties of nonlinear optical CdSe crystals. <i>Optical Materials</i> , 2018, 78, 484-489.	3.6	7

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37	Tunable narrow-linewidth high-peak-power sub-nanosecond optical parametric generator by injection seeding. <i>Optics Express</i> , 2022, 30, 16479.	3.4	7
38	Comparison of eye-safe KTA OPOs pumped by Nd:YVO4 and Nd:YLF lasers. <i>Optics and Laser Technology</i> , 2011, 43, 636-641.	4.6	6
39	Widely Tunable High-Repetition-Rate Terahertz Generation Based on an Efficient Doubly Resonant Type-II PPLN OPO. <i>IEEE Photonics Journal</i> , 2016, 8, 1-7.	2.0	6
40	Theoretical and experimental study on broadband terahertz atmospheric transmission characteristics. <i>Chinese Physics B</i> , 2017, 26, 019501.	1.4	6
41	Optical coefficients extraction from terahertz time-domain transmission spectra based on multibeam interference principle. <i>Optical Engineering</i> , 2017, 56, 044101.	1.0	6
42	Dual-signal-resonant optical parametric oscillator intracavity driven by a coaxially end-pumped laser with compound gain media. <i>Optics Express</i> , 2018, 26, 20768.	3.4	6
43	Efficient MW-peak-power kHz-repetition-rate sub-nanosecond optical parametric generator tunable from near- to mid-infrared. <i>Optics and Laser Technology</i> , 2022, 151, 108010.	4.6	6
44	Rayleigh Lidar Signal Denoising Method Combined with WT, EEMD and LOWESS to Improve Retrieval Accuracy. <i>Remote Sensing</i> , 2022, 14, 3270.	4.0	6
45	A non-critically phase matched KTA optical parametric oscillator intracavity pumped by an actively Q-switched Nd:GYSGG laser with dual signal wavelengths. <i>Optics Communications</i> , 2015, 344, 17-20.	2.1	5
46	Enhanced Terahertz Wave Generation via Stokes Wave Recycling in Non-Synchronously Picosecond Pulse Pumped Terahertz Source. <i>IEEE Photonics Journal</i> , 2019, 11, 1-8.	2.0	5
47	Efficient tunable terahertz generation via noncollinear phase matching in the ZnGeP ₂ crystal. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2020, 37, 3857.	2.1	5
48	Tunable and coherent nanosecond 7.2–12.2 μ m mid-infrared generation based on difference frequency mixing in ZnGeP ₂ crystal. <i>Optoelectronics Letters</i> , 2010, 6, 179-182.	0.8	4
49	High-powered tunable terahertz source based on a surface-emitted terahertz-wave parametric oscillator. <i>Optical Engineering</i> , 2012, 51, 091605.	1.0	4
50	High-order Stokes generation in a KTP Raman laser pumped by a passively Q-switched Nd:YLF laser. <i>Optics Communications</i> , 2015, 356, 411-415.	2.1	4
51	Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. <i>IEEE Photonics Journal</i> , 2020, 12, 1-10.	2.0	4
52	Theory and experiments of a power-ratio tunable dual-wavelength Nd:YVO4/Nd:GdVO4 laser by varying the pump wavelength. <i>Optical Engineering</i> , 2021, 60, .	1.0	4
53	Temperature-dependent optical properties of AgGaS ₂ in the terahertz range. <i>Optical Materials</i> , 2021, 119, 111300.	3.6	4
54	Optimal design based on a two-dimensional photonic crystal of hexagonal lattice with a large complete band gap. <i>Wuli Xuebao/Acta Physica Sinica</i> , 2007, 56, 7029.	0.5	4

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55	Compact, efficient and power-ratio tunable orthogonally polarized Nd:YVO ₄ laser with coaxial diode-end-pumping configuration. <i>Optics Communications</i> , 2022, 523, 128739.	2.1	4
56	High-energy pulsed laser of twin wavelengths from KTP intracavity optical parametric oscillator. <i>Applied Physics B: Lasers and Optics</i> , 2009, 97, 439-443.	2.2	3
57	Intersubband absorption with difference-frequency generation in GaAs asymmetric quantum wells. <i>Chinese Physics B</i> , 2012, 21, 084207.	1.4	3
58	Low-loss terahertz waveguide with InAs-graphene-SiC structure. <i>Chinese Physics B</i> , 2014, 23, 054210.	1.4	3
59	High power, widely tunable dual-wavelength 2 μ m laser based on intracavity KTP optical parametric oscillator. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 035104.	2.8	3
60	Laser Performance of Neodymium- and Erbium-Doped GYSGG Crystals. <i>Crystals</i> , 2019, 9, 220.	2.2	3
61	Efficient Terahertz Generation Via GaAs Hybrid Ridge Waveguides. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1666-1669.	2.5	3
62	Tunable dual-color terahertz wave parametric oscillator based on KTP crystal. <i>Optics Letters</i> , 2019, 44, 5675.	3.3	3
63	Generation of tunable coherent nanosecond 8-12 μ m mid-infrared pulses based on difference frequency generation in GaSe and ZnGeP ₂ . <i>Proceedings of SPIE</i> , 2010, , .	0.8	2
64	THz-Wave Difference Frequency Generation by Phase-Matching in GaAs/Al _x Ga _{1-x} As Asymmetric Quantum Well. <i>Chinese Physics Letters</i> , 2012, 29, 014207.	3.3	2
65	The widely tunable THz generation in QPM-GaAs crystal pumped by a near-degenerate dual-wavelength KTP OPO at around 2.127 μ m. <i>Proceedings of SPIE</i> , 2013, , .	0.8	2
66	Resonance mode-switching in terahertz metamaterials based on varying gallium arsenide conductivity. <i>Optical Engineering</i> , 2013, 52, 024001.	1.0	2
67	Theoretical analysis of cascaded optical parametric oscillations generating tunable terahertz waves. <i>Optical Engineering</i> , 2013, 52, 106103.	1.0	2
68	Instantaneous spectral span of 2.85 - 8.40 μ m achieved in a Cr:ZnS laser pumped subharmonic OPO. , 2017, , .		2
69	High-efficiency terahertz wave generation combined with optimized cascaded difference frequency generation and optical parametric oscillator. <i>Optik</i> , 2021, 234, 166622.	2.9	2
70	A high-energy, low-threshold tunable intracavity terahertz-wave parametric oscillator with surface-emitted configuration. <i>Laser Physics</i> , 2013, 23, 055406.	1.2	2
71	BaTeMo ₂ O ₉ crystals: optical properties and applications in the terahertz range. <i>Optical Materials Express</i> , 2019, 9, 4390.	3.0	2
72	Fourier Transform Analysis on Random Quasi-Phase-Matched Nonlinear Optical Interactions. <i>IEEE Photonics Journal</i> , 2022, 14, 1-5.	2.0	2

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73	Continuous-wave green laser of 34 W by intracavity frequency doubling in diode-side-pumped Nd:YAG/KTP. Chinese Optics Letters, 2009, 7, 802-804.	2.9	1
74	A low-threshold efficient KTA OPO by a fiber-coupled diode-end-pumped Nd:YVO4 laser. Optoelectronics Letters, 2010, 6, 412-416.	0.8	1
75	165W high stability green laser based on composite ceramic Nd:YAG crystal. , 2010, , .		1
76	Output Enhancement of a THz Wave Based on a Surface-Emitted THz-Wave Parametric Oscillator. Chinese Physics Letters, 2011, 28, 114201.	3.3	1
77	The Double-ended 750 nm and 532 nm Laser Output from PPLN-FWM. Chinese Physics Letters, 2013, 30, 064203.	3.3	1
78	Intersubband absorption properties of GaAs/AlxGa1-xAs asymmetric quantum well based on optical difference frequency. Optical Engineering, 2013, 52, 014001.	1.0	1
79	Analyzing terahertz time-domain transmission spectra with multi-beam interference principle. , 2016, , .		1
80	High-repetition-rate, widely tunable terahertz generation in GaSe pumped by a dual-wavelength KTP-OPO. , 2016, , .		1
81	Power-ratio tunable dual-band Nd:CYSGG laser at 0.94 μ m and 1.06 μ m. Laser Physics, 2017, 27, 125804.	1.2	1
82	High-repetition-rate, tunable and coherent mid-infrared source based on difference frequency generation from a dual-wavelength 2 μ m laser and GaSe crystal. Laser Physics, 2018, 28, 126205.	1.2	1
83	Broadband terahertz dielectric measurement based on multi-beam interference and Fourier transform infrared spectrometer. Modern Physics Letters B, 2018, 32, 1850298.	1.9	1
84	A Wavelength-Agile Eye-Safe Optical Parametric Oscillator Based on an X-Cut KTP Crystal. IEEE Photonics Journal, 2021, 13, 1-4.	2.0	1
85	Passively Q-Switched Dual-Wavelength Laser Operation With Coaxially End-Pumped Composite Laser Materials. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	1
86	Dual-core terahertz polarization splitter based on porous fibers with near-tie units. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 024209.	0.5	1
87	Optical parametric oscillation in a random poly-crystalline medium: ZnSe ceramic. , 2018, , .		1
88	Wideband Collinear Phase Matching in Cubic Semiconductors via the Linear Electro-Optic Effect: A Theoretical Study. Crystals, 2022, 12, 764.	2.2	1
89	Generation of 1178nm based on cascaded stimulated Raman scattering in KTA crystal. Proceedings of SPIE, 2010, , .	0.8	0
90	Study on the generation of high-power terahertz wave from surface-emitted THz-wave parametric oscillator with MgO:LiNbO3 crystal. , 2010, , .		0

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91	The guidance mechanism and numerical simulation of THz polymer hollow-core photonic crystal fiber. Proceedings of SPIE, 2010, , .	0.8	0
92	Terahertz difference frequency generation in GaSe from a doubly-resonant walk-off compensated KTP OPO. , 2010, , .		0
93	Investigation on phase matching in a THz-wave parametric oscillator. Optoelectronics Letters, 2012, 8, 29-32.	0.8	0
94	Cherenkov phase-matched monochromatic THz difference frequency generation in LiNbO ₃ crystal. , 2013, , .		0
95	Compact high-repetition-rate terahertz source based on difference frequency generation from an efficient 2-1/4m dual-wavelength KTP OPO. , 2016, , .		0
96	Efficient Ring-Cavity Terahertz Parametric Oscillator With Pump Recycling Technique. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	0
97	Temperature-Dependent Properties of Terahertz Window Materials. , 2021, , .		0
98	Study of absorption and scattering of terahertz wave in inhomogeneous dusty plasma sheath. , 2021, , .		0
99	Investigation on Terahertz Generation by GaP Ridge Waveguide Based on Cascaded Difference Frequency Generation. Journal of the Optical Society of Korea, 2016, 20, 169-173.	0.6	0
100	Synchronous dual-wavelength pulse generation in coaxial pumping scheme and its application in terahertz difference frequency generation. , 2018, , .		0
101	Stimulated polariton scattering in [beta]-BTM crystal. , 2018, , .		0
102	Dual-wavelength eye-safe optical parametric oscillator intracavity driven by a coaxially end pumped laser. , 2018, , .		0
103	A gain-boosted terahertz-wave parametric generator in high frequency tuning range via pulse-seed injection. , 2019, , .		0
104	Efficient terahertz difference frequency generation via noncollinear phase matching in ZnGeP ₂ . , 2020, , .		0
105	A passively Q-switched dual-wavelength laser based on coaxial diode end-pumping configuration. , 2020, , .		0
106	Nonlinear conversion efficiency of random quasi-phase matching in polycrystal influenced by grain morphological properties. , 2020, , .		0
107	High-Power Dual-Wavelength Laser Based on Coaxial End-Pumping Scheme With Combination of Gain Media. IEEE Photonics Journal, 2022, 14, 1-6.	2.0	0