

# Kai Zhong

## List of Publications by Year in descending order

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107  
papers

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108  
all docs

108  
docs citations

108  
times ranked

562  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fourier Transform Analysis on Random Quasi-Phase-Matched Nonlinear Optical Interactions. IEEE Photonics Journal, 2022, 14, 1-5.	2.0	2
2	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
3	Efficient MW-peak-power kHz-repetition-rate sub-nanosecond optical parametric generator tunable from near- to mid-infrared. Optics and Laser Technology, 2022, 151, 108010.	4.6	6
4	Tunable narrow-linewidth high-peak-power sub-nanosecond optical parametric generator by injection seeding. Optics Express, 2022, 30, 16479.	3.4	7
5	Wideband Collinear Phase Matching in Cubic Semiconductors via the Linear Electro-Optic Effect: A Theoretical Study. Crystals, 2022, 12, 764.	2.2	1
6	Optical Terahertz Sources Based on Difference Frequency Generation in Nonlinear Crystals. Crystals, 2022, 12, 936.	2.2	8
7	Rayleigh Lidar Signal Denoising Method Combined with WT, EEMD and LOWESS to Improve Retrieval Accuracy. Remote Sensing, 2022, 14, 3270.	4.0	6
8	High Repetition Rate, Tunable Mid-Infrared BaGa4Se7 Optical Parametric Oscillator Pumped by a 1 $\mu$ m Nd:YAG Laser. Applied Sciences (Switzerland), 2022, 12, 7197.	2.5	8
9	Compact, efficient and power-ratio tunable orthogonally polarized Nd:YVO4 laser with coaxial diode-end-pumping configuration. Optics Communications, 2022, 523, 128739.	2.1	4
10	High-efficiency terahertz wave generation combined with optimized cascaded difference frequency generation and optical parametric oscillator. Optik, 2021, 234, 166622.	2.9	2
11	Theory and experiments of a power-ratio tunable dual-wavelength Nd:YVO4/Nd:GdVO4 laser by varying the pump wavelength. Optical Engineering, 2021, 60, .	1.0	4
12	Temperature-dependent optical properties of AgGaS2 in the terahertz range. Optical Materials, 2021, 119, 111300.	3.6	4
13	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
14	Passively Q-Switched Dual-Wavelength Laser Operation With Coaxially End-Pumped Composite Laser Materials. IEEE Photonics Journal, 2021, 13, 1-7.	2.0	1
15	Temperature-Dependent Properties of Terahertz Window Materials. , 2021, , .		0
16	Study of absorption and scattering of terahertz wave in inhomogeneous dusty plasma sheath. , 2021, , .		0
17	Effects of Grain Morphology on Nonlinear Conversion Efficiency of Random Quasi-Phase Matching in Polycrystalline Materials. IEEE Photonics Journal, 2020, 12, 1-10.	2.0	4
18	Application of terahertz time-domain spectroscopy in atmospheric pressure plasma jet diagnosis. Results in Physics, 2020, 16, 102928.	4.1	10

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19	Defect Engineering of MoS <sub>2</sub> for Room-Temperature Terahertz Photodetection. ACS Applied Materials & Interfaces, 2020, 12, 7351-7357.	8.0	52
20	High-energy, tunable, long-wave mid-infrared optical parametric oscillator based on BaGa <sub>4</sub> Se <sub>7</sub> crystal. Optics Letters, 2020, 45, 5287.	3.3	23
21	Efficient terahertz difference frequency generation via noncollinear phase matching in ZnGeP <sub>2</sub> . , 2020, , .		0
22	A passively Q-switched dual-wavelength laser based on coaxial diode end-pumping configuration. , 2020, , .		0
23	Nonlinear conversion efficiency of random quasi-phase matching in polycrystal influenced by grain morphological properties. , 2020, , .		0
24	Efficient tunable terahertz generation via noncollinear phase matching in the ZnGeP <sub>2</sub> crystal. Journal of the Optical Society of America B: Optical Physics, 2020, 37, 3857.	2.1	5
25	Enhanced Terahertz Wave Generation via Stokes Wave Recycling in Non-Synchronously Picosecond Pulse Pumped Terahertz Source. IEEE Photonics Journal, 2019, 11, 1-8.	2.0	5
26	Laser Performance of Neodymium- and Erbium-Doped GYSGG Crystals. Crystals, 2019, 9, 220.	2.2	3
27	Efficient Ring-Cavity Terahertz Parametric Oscillator With Pump Recycling Technique. IEEE Photonics Journal, 2019, 11, 1-9.	2.0	0
28	Efficient Terahertz Generation Via GaAs Hybrid Ridge Waveguides. IEEE Photonics Technology Letters, 2019, 31, 1666-1669.	2.5	3
29	Widely tunable eye-safe optical parametric oscillator with noncollinear phase-matching in a ring cavity. Optics Express, 2019, 27, 10449.	3.4	11
30	Injection pulse-seeded terahertz-wave parametric generator with gain enhancement in wide frequency range. Optics Express, 2019, 27, 22808.	3.4	12
31	Dual-wavelength intracavity Raman laser driven by a coaxially pumped dual-crystal fundamental laser. Optics Express, 2019, 27, 27797.	3.4	10
32	Tunable dual-color terahertz wave parametric oscillator based on KTP crystal. Optics Letters, 2019, 44, 5675.	3.3	3
33	BaTeMo <sub>2</sub> O <sub>9</sub> crystals: optical properties and applications in the terahertz range. Optical Materials Express, 2019, 9, 4390.	3.0	2
34	A gain-boosted terahertz-wave parametric generator in high frequency tuning range via pulse-seed injection. , 2019, , .		0
35	Terahertz optical properties of nonlinear optical CdSe crystals. Optical Materials, 2018, 78, 484-489.	3.6	7
36	High-repetition-rate, tunable and coherent mid-infrared source based on difference frequency generation from a dual-wavelength 2 $\mu$ m laser and GaSe crystal. Laser Physics, 2018, 28, 126205.	1.2	1

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37	Broadband terahertz dielectric measurement based on multi-beam interference and Fourier transform infrared spectrometer. <i>Modern Physics Letters B</i> , 2018, 32, 1850298.	1.9	1
38	Compact, efficient and widely tunable 2- $\mu\text{m}$ high-repetition-rate optical parametric oscillators. <i>Optics Communications</i> , 2018, 426, 119-125.	2.1	8
39	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
40	Synchronous dual-wavelength pulse generation in coaxial pumping scheme and its application in terahertz difference frequency generation. , 2018, , .		0
41	Optical parametric oscillation in a random poly-crystalline medium: ZnSe ceramic. , 2018, , .		1
42	Stimulated polariton scattering in $\beta$ -BTM crystal. , 2018, , .		0
43	Dual-wavelength eye-safe optical parametric oscillator intracavity driven by a coaxially end pumped laser. , 2018, , .		0
44	High power, widely tunable dual-wavelength 2 $\mu\text{m}$ laser based on intracavity KTP optical parametric oscillator. <i>Journal Physics D: Applied Physics</i> , 2017, 50, 035104.	2.8	3
45	Instantaneous spectral span of 2.85 - 8.40 $\mu\text{m}$ achieved in a Cr:ZnS laser pumped subharmonic OPO. , 2017, , .		2
46	Optically pumped terahertz sources. <i>Science China Technological Sciences</i> , 2017, 60, 1801-1818.	4.0	44
47	Theoretical and experimental study on broadband terahertz atmospheric transmission characteristics. <i>Chinese Physics B</i> , 2017, 26, 019501.	1.4	6
48	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
49	Optical coefficients extraction from terahertz time-domain transmission spectra based on multibeam interference principle. <i>Optical Engineering</i> , 2017, 56, 044101.	1.0	6
50	Power-ratio tunable dual-band Nd:GYSGG laser at 0.94 $\mu\text{m}$ and 1.06 $\mu\text{m}$ . <i>Laser Physics</i> , 2017, 27, 125804.	1.2	1
51	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
52	Compact and stable high-repetition-rate terahertz generation based on an efficient coaxially pumped dual-wavelength laser. <i>Optics Express</i> , 2017, 25, 31988.	3.4	19
53	Linear optical properties of ZnGeP <sub>2</sub> in the terahertz range. <i>Optical Materials Express</i> , 2017, 7, 3571.	3.0	25
54	Optical parametric oscillation in a random polycrystalline medium. <i>Optica</i> , 2017, 4, 617.	9.3	37

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55	High-average-power, high-repetition-rate tunable terahertz difference frequency generation with GaSe crystal pumped by 2- $\mu\text{m}$ dual-wavelength intracavity KTP optical parametric oscillator. Photonics Research, 2017, 5, 82.	7.0	52
56	Dual-core terahertz polarization splitter based on porous fibers with near-tie units. Wuli Xuebao/Acta Physica Sinica, 2017, 66, 024209.	0.5	1
57	Widely-tunable high-repetition-rate terahertz generation in GaSe with a compact dual-wavelength KTP OPO around 2- $\mu\text{m}$ . Optics Express, 2016, 24, 23368.	3.4	29
58	Widely Tunable High-Repetition-Rate Terahertz Generation Based on an Efficient Doubly Resonant Type-II PPLN OPO. IEEE Photonics Journal, 2016, 8, 1-7.	2.0	6
59	Green laser induced terahertz tuning range expanding in KTiOPO4 terahertz parametric oscillator. Applied Physics Letters, 2016, 108, .	3.3	32
60	High-Repetition-Rate Terahertz Generation in QPM GaAs With a Compact Efficient 2- $\mu\text{m}$ Dual-Wavelength Intracavity Pumped KTP OPO. IEEE Photonics Technology Letters, 2016, 28, 1501-1504.	2.5	17
61	Analyzing terahertz time-domain transmission spectra with multi-beam interference principle. , 2016, , .		1
62	Compact high-repetition-rate terahertz source based on difference frequency generation from an efficient 2- $\mu\text{m}$ dual-wavelength KTP OPO. , 2016, , .		0
63	High-repetition-rate, widely tunable terahertz generation in GaSe pumped by a dual-wavelength KTP-OPO. , 2016, , .		1
64	Simultaneous dual-wavelength eye-safe KTP OPO intracavity pumped by a Nd:GYSGG laser. Journal Physics D: Applied Physics, 2016, 49, 065101.	2.8	10
65	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
66	A non-critically phase matched KTA optical parametric oscillator intracavity pumped by an actively Q-switched Nd:GYSGG laser with dual signal wavelengths. Optics Communications, 2015, 344, 17-20.	2.1	5
67	Theoretical analysis of terahertz generation in periodically inverted nonlinear crystals based on cascaded difference frequency generation process. Modern Physics Letters B, 2015, 29, 1450263.	1.9	7
68	High-order Stokes generation in a KTP Raman laser pumped by a passively Q-switched ND:YLF laser. Optics Communications, 2015, 356, 411-415.	2.1	4
69	Low-loss terahertz waveguide with InAs-graphene-SiC structure. Chinese Physics B, 2014, 23, 054210.	1.4	3
70	The widely tunable THz generation in QPM-GaAs crystal pumped by a near-degenerate dual-wavelength KTP OPO at around 2.127- $\mu\text{m}$ . Proceedings of SPIE, 2013, , .	0.8	2
71	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
72	Diode-pumped continuous-wave quasi-three-level Nd:GYSGG laser at 937nm. Optics Communications, 2013, 294, 229-232.	2.1	8

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73	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
74	Continuous-wave Nd:GYSGG laser properties in 1.3 and 1.4 $\mu\text{m}$ regions based on $F_{3/2} \rightarrow F_{4/3}$ transition. Journal of Applied Physics, 2013, 46, 315106.	2.8	7
75	Resonance mode-switching in terahertz metamaterials based on varying gallium arsenide conductivity. Optical Engineering, 2013, 52, 024001.	1.0	2
76	Theoretical analysis of cascaded optical parametric oscillations generating tunable terahertz waves. Optical Engineering, 2013, 52, 106103.	1.0	2
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/Al <sub>x</sub> Ga <sub>1-x</sub> As asymmetric quantum well based on optical difference frequency. Optical Engineering, 2013, 52, 014001.	1.0	1
79	Cherenkov phase-matched monochromatic THz difference frequency generation in LiNbO <sub>3</sub> crystal. , 2013, , .		0
80	A high-energy, low-threshold tunable intracavity terahertz-wave parametric oscillator with surface-emitted configuration. Laser Physics, 2013, 23, 055406.	1.2	2
81	High-powered tunable terahertz source based on a surface-emitted terahertz-wave parametric oscillator. Optical Engineering, 2012, 51, 091605.	1.0	4
82	Theory of monochromatic terahertz generation via Cherenkov phase-matched difference frequency generation in LiNbO <sub>3</sub> crystal. Journal of the Optical Society of America B: Optical Physics, 2012, 29, 2425.	2.1	9
83	Continuous-wave Nd:GYSGG laser around 1.3 $\mu\text{m}$ . Laser Physics Letters, 2012, 9, 491-495.	1.4	17
84	Stimulated emission cross section of the $F_{3/2} \rightarrow F_{4/3}$ of Nd:GYSGG. Laser Physics Letters, 2012, 9, 410-414.	1.4	10
85	Intersubband absorption with difference-frequency generation in GaAs asymmetric quantum wells. Chinese Physics B, 2012, 21, 084207.	1.4	3
86	THz-Wave Difference Frequency Generation by Phase-Matching in GaAs/Al <sub>x</sub> Ga <sub>1-x</sub> As Asymmetric Quantum Well. Chinese Physics Letters, 2012, 29, 014207.	3.3	2
87	Investigation on phase matching in a THz-wave parametric oscillator. Optoelectronics Letters, 2012, 8, 29-32.	0.8	0
88	Efficient diode-end-pumped dual-wavelength Nd, Gd:YSGG laser. Optics Letters, 2011, 36, 3813.	3.3	36
89	Comparison of eye-safe KTA OPOs pumped by Nd:YVO <sub>4</sub> and Nd:YLF lasers. Optics and Laser Technology, 2011, 43, 636-641.	4.6	6
90	Ultrahigh birefringent polymer terahertz fiber based on a near-tie unit. Journal of Optics (United Kingdom), 2010, 10, 106106.	2.2	10

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91	Output Enhancement of a THz Wave Based on a Surface-Emitted THz-Wave Parametric Oscillator. Chinese Physics Letters, 2011, 28, 114201.	3.3	1
92	High-power terahertz radiation from surface-emitted THz-wave parametric oscillator. Chinese Physics B, 2011, 20, 054207.	1.4	16
93	Generation of 1178nm based on cascaded stimulated Raman scattering in KTA crystal. Proceedings of SPIE, 2010, , .	0.8	0
94	Study on the generation of high-power terahertz wave from surface-emitted THz-wave parametric oscillator with MgO:LiNbO <sub>3</sub> crystal. , 2010, , .		0
95	Multi-wavelength generation based on cascaded Raman scattering and self-frequency-doubling in KTA. Laser Physics, 2010, 20, 750-755.	1.2	7
96	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
97	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
98	A low-threshold efficient KTA OPO by a fiber-coupled diode-end-pumped Nd:YVO <sub>4</sub> laser. Optoelectronics Letters, 2010, 6, 412-416.	0.8	1
99	Tunable and coherent nanosecond 7.2-12.2 $\mu$ m mid-infrared generation based on difference frequency mixing in ZnGeP <sub>2</sub> crystal. Optoelectronics Letters, 2010, 6, 179-182.	0.8	4
100	165W high stability green laser based on composite ceramic Nd:YAG crystal. , 2010, , .		1
101	Generation of tunable coherent nanosecond 8-12 $\mu$ m mid-infrared pulses based on difference frequency generation in GaSe and ZnGeP <sub>2</sub> . Proceedings of SPIE, 2010, , .	0.8	2
102	The guidance mechanism and numerical simulation of THz polymer hollow-core photonic crystal fiber. Proceedings of SPIE, 2010, , .	0.8	0
103	Terahertz difference frequency generation in GaSe from a doubly-resonant walk-off compensated KTP OPO. , 2010, , .		0
104	Efficient electro-optic Q-switched eye-safe optical parametric oscillator based on KTiAsO <sub>4</sub> . Applied Physics B: Lasers and Optics, 2009, 97, 61-66.	2.2	19
105	High-energy pulsed laser of twin wavelengths from KTP intracavity optical parametric oscillator. Applied Physics B: Lasers and Optics, 2009, 97, 439-443.	2.2	3
106	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
107	Optimal design based on a two-dimensional photonic crystal of hexagonal lattice with a large complete band gap. Wuli Xuebao/Acta Physica Sinica, 2007, 56, 7029.	0.5	4