

Ki-Yong Kim

List of Publications by Year in descending order

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73
papers

3,830
citations

172207

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133063

59
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all docs

73
docs citations

73
times ranked

2163
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultrabroadband microwave radiation from near- and mid-infrared laser-produced plasmas in air. <i>Physical Review A</i> , 2021, 104, .	1.0	7
2	Single-shot terahertz spectrometer using a microbolometer camera. <i>Applied Physics Letters</i> , 2020, 117, .	1.5	2
3	Binder- and conductive additive-free laser-induced graphene/LiNi _{1/3} Mn _{1/3} Co _{1/3} O ₂ for advanced hybrid supercapacitors. <i>NPG Asia Materials</i> , 2020, 12, .	3.8	28
4	Simplified single-shot supercontinuum spectral interferometry. <i>Optics Express</i> , 2020, 28, 11023.	1.7	2
5	Generation of 0.7 mJ multicycle 15 THz radiation by phase-matched optical rectification in lithium niobate. <i>Optics Letters</i> , 2020, 45, 3617.	1.7	17
6	Efficient terahertz and Brunei harmonic generation from air plasma with femtosecond two-color mid-infrared lasers. , 2020, , .		0
7	Multicycle terahertz pulse generation by optical rectification in LiNbO ₃ , LiTaO ₃ , and BBO crystals. <i>Optics Express</i> , 2020, 28, 21220.	1.7	9
8	Spectral Characterization of a Microbolometer Focal Plane Array at Terahertz Frequencies. <i>IEEE Transactions on Terahertz Science and Technology</i> , 2019, 9, 150-154.	2.0	12
9	Highly enhanced terahertz conversion by two-color laser filamentation at low gas pressures. <i>Optics Express</i> , 2019, 27, 22663.	1.7	20
10	Scalable terahertz generation by large-area optical rectification at 80 TW laser power. <i>Optics Letters</i> , 2019, 44, 5634.	1.7	14
11	Efficient terahertz and Brunel harmonic generation from air plasma via mid-infrared coherent control. <i>Optica</i> , 2019, 6, 1338.	4.8	47
12	Demonstration of snapshot terahertz spectral power characterization with a microbolometer focal plane array. , 2019, , .		0
13	Simplified Single-shot Supercontinuum Spectral Interferometry (SSSSI). , 2019, , .		0
14	Non-Scanning THz Spectral Characterization with a Microbolometer Focal Plane Array. , 2019, , .		0
15	Ultra-Broadband UV to Microwave Coherent Radiation from Mid-Infrared Interactions in Thin Gas Jets and Clusters. , 2019, , .		0
16	Single-shot ultrafast imaging via spatiotemporal division of femtosecond laser pulses. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2018, 35, 2822.	0.9	18
17	Broadband THz Spectral Characterization with THz Bandpass Filters. , 2018, , .		1
18	Simplified chirp characterization in single-shot supercontinuum spectral interferometry. <i>Optics Express</i> , 2018, 26, 20572.	1.7	2

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19	Generation and Characterization of Strong Terahertz Fields From kHz Laser Filamentation. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-7.	1.9	23
20	Laser-driven strong THz field generation. , 2017, , .		0
21	MeV electron acceleration at 1â€‰kHz with 10â€‰mJ laser pulses. Optics Letters, 2017, 42, 215.	1.7	76
22	Generation of scalable terahertz radiation from cylindrically focused two-color laser pulses in air. Applied Physics Letters, 2016, 108, .	1.5	61
23	Terahertz generation from cylindrically focused two-color laser pulses in air. , 2015, , .		0
24	Strong terahertz field generation at high repetition rates. , 2015, , .		0
25	Terahertz-driven harmonics. Nature Photonics, 2014, 8, 92-94.	15.6	3
26	All-optical characterization of cryogenically cooled argon clusters in continuous gas jets. Applied Physics Letters, 2014, 105, .	1.5	14
27	Generation of strong terahertz fields exceeding 8 MV/cm at 1â€‰kHz and real-time beam profiling. Applied Physics Letters, 2014, 105, .	1.5	130
28	Intense terahertz generation in two-color laser filamentation: energy scaling with terawatt laser systems. New Journal of Physics, 2013, 15, 075002.	1.2	151
29	THz generation by optical Cherenkov emission from ionizing two-color laser pulses. Physical Review A, 2013, 88, .	1.0	32
30	Alignment-dependent terahertz radiation in two-color photoionization of molecules. Physical Review A, 2013, 87, .	1.0	14
31	Scaling and saturation of high-power terahertz radiation generation in two-color laser filamentation. Applied Physics Letters, 2013, 102, .	1.5	34
32	Mechanism of elliptically polarized terahertz generation in two-color laser filamentation. Optics Letters, 2013, 38, 1034.	1.7	42
33	Two-dimensional plasma current and optimized terahertz generation in two-color photoionization. Optics Express, 2012, 20, 19778.	1.7	63
34	Off-Axis Phase-Matched Terahertz Emission from Two-Color Laser-Induced Plasma Filaments. Physical Review Letters, 2012, 109, 183902.	2.9	168
35	High-Power Broadband Terahertz Generation via Two-Color Photoionization in Gases. IEEE Journal of Quantum Electronics, 2012, 48, 797-805.	1.0	76
36	Terahertz Generation via Two Color Photoionization in Preformed Plasma. , 2010, , .		1

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37	Observation of terahertz radiation coherently generated by acoustic waves. <i>Nature Physics</i> , 2009, 5, 285-288.	6.5	66
38	Amplitude ambiguities in second-harmonic-generation frequency-resolved optical gating: reply to comment. <i>Optics Letters</i> , 2009, 34, 2603.	1.7	0
39	Generation of coherent terahertz radiation in ultrafast laser-gas interactions. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	145
40	Generation of Terahertz and Harmonic Radiation in Ultrafast Laser-Gas Interactions. , 2009, , .		0
41	B-dot Probe Study of Two-Color Laser-Produced Elongated Air Filaments. , 2009, , .		1
42	Measurements of Terahertz Electrical Conductivity of Intense Laser-Heated Dense Aluminum Plasmas. <i>Physical Review Letters</i> , 2008, 100, 135002.	2.9	40
43	Coherent control of terahertz supercontinuum generation in ultrafast laser-gas interactions. <i>Nature Photonics</i> , 2008, 2, 605-609.	15.6	707
44	In-line holographic imaging and electron density extraction of ultrafast ionized air filaments. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2008, 25, 1988.	0.9	58
45	Atomic-scale time and space resolution of THz frequency acoustic waves. , 2008, , .		0
46	Atomic-Scale Time and Space Resolution of Terahertz Frequency Acoustic Waves. <i>Physical Review Letters</i> , 2008, 101, 014302.	2.9	18
47	Three envelope approach for ultrafast pulse characterization in a pump-probe experiment. <i>Applied Physics Letters</i> , 2008, 92, 061111.	1.5	1
48	Comment on "Temporally resolved electro-optic effect". <i>Optics Letters</i> , 2007, 32, 1341.	1.7	4
49	Single-shot terahertz pulse characterization via two-dimensional electro-optic imaging with dual echelons. <i>Optics Letters</i> , 2007, 32, 1968.	1.7	78
50	Amplitude ambiguities in second-harmonic generation frequency-resolved optical gating. <i>Optics Letters</i> , 2007, 32, 3558.	1.7	12
51	Details of electro-optic terahertz detection with a chirped probe pulse. <i>Optics Express</i> , 2007, 15, 1376.	1.7	21
52	Terahertz emission from ultrafast ionizing air in symmetry-broken laser fields. <i>Optics Express</i> , 2007, 15, 4577.	1.7	651
53	Terahertz radiation from shocked materials. <i>Materials Today</i> , 2007, 10, 44-50.	8.3	4
54	Observation of modulations in Lyman- α line profiles of multicharged ions in clusters irradiated by femtosecond laser pulses: Effect of a dynamic electric field. <i>Physical Review A</i> , 2006, 73, .	1.0	22

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55	Single-shot, interferometric, high-resolution, terahertz field diagnostic. Applied Physics Letters, 2006, 88, 041123.	1.5	41
56	Clustered gases as a medium for efficient plasma waveguide generation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2006, 364, 647-661.	1.6	19
57	X-ray spectroscopy of 1cm plasma channels produced by self-guided pulse propagation in elongated cluster jets. Physical Review E, 2006, 73, 066403.	0.8	23
58	Measurement of ultrafast dynamics in the interaction of intense laser pulses with gases, clusters, and plasma waveguides. Physics of Plasmas, 2005, 12, 056712.	0.7	9
59	Algorithm for high-resolution single-shot THz measurement using in-line spectral interferometry with chirped pulses. Applied Physics Letters, 2005, 87, 211109.	1.5	43
60	Guiding of Intense Laser Pulses in Plasma Waveguides Produced from Efficient, Femtosecond End-Pumped Heating of Clustered Gases. Physical Review Letters, 2005, 94, 205004.	2.9	48
61	Plasma waveguides efficiently generated by Bessel beams in elongated cluster gas jets. Physical Review E, 2005, 72, 036411.	0.8	25
62	Spectral redshifts in the intense laser-cluster interaction. Physical Review A, 2005, 71, .	1.0	24
63	Gases of exploding laser-heated cluster nanoplasmas as a nonlinear optical medium. Physics of Plasmas, 2004, 11, 2882-2889.	0.7	15
64	Time-Resolved Explosion of Intense-Laser-Heated Clusters. Physical Review Letters, 2003, 90, 023401.	2.9	75
65	Hydrodynamic time scales for intense laser-heated clusters. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 118.	0.9	25
66	Measurement of the average size and density of clusters in a gas jet. Applied Physics Letters, 2003, 83, 3210-3212.	1.5	83
67	Self-Focusing of Intense Laser Pulses in a Clustered Gas. Physical Review Letters, 2003, 90, 103402.	2.9	81
68	Resonant self-trapping of high intensity Bessel beams in underdense plasmas. Physical Review E, 2002, 65, 056408.	0.8	13
69	Single-shot supercontinuum spectral interferometry. Applied Physics Letters, 2002, 81, 4124-4126.	1.5	101
70	Measurement of the Superluminal Group Velocity of an Ultrashort Bessel Beam Pulse. Physical Review Letters, 2002, 88, 073901.	2.9	100
71	Single-shot measurement of laser-induced double step ionization of helium. Optics Express, 2002, 10, 1563.	1.7	42
72	X-ray and extreme ultraviolet emission induced by variable pulse-width irradiation of Ar and Kr clusters and droplets. Physical Review E, 2000, 62, R5931-R5934.	0.8	122

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73	Tubular plasma generation with a high-power hollow Bessel beam. Physical Review E, 2000, 62, R7603-R7606.	0.8	46