

# Kitae Lee

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

339  
citations

1163117

8  
h-index

888059

17  
g-index

60  
all docs

60  
docs citations

60  
times ranked

371  
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards jitter-free ultrafast electron diffraction technology. <i>Nature Photonics</i> , 2020, 14, 245-249.	31.4	55
2	Terahertz transmission and sheet conductivity of randomly stacked multi-layer graphene. <i>Applied Physics Letters</i> , 2013, 102, .	3.3	38
3	Temporal and spatial characterization of harmonics structures of relativistic nonlinear Thomson scattering. <i>Optics Express</i> , 2003, 11, 309.	3.4	35
4	Numerical investigation of the radiation characteristics of a variable-period helical undulator. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 776, 27-33.	1.6	24
5	Generation of intense proton beams from plastic targets irradiated by an ultraintense laser pulse. <i>Physical Review E</i> , 2008, 78, 056403.	2.1	22
6	Variable-period permanent-magnet helical undulator. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	19
7	THz guided-mode resonance notch filter with variable filtering strength. <i>Scientific Reports</i> , 2021, 11, 1307.	3.3	15
8	Terahertz radiation generation by nonlinear mixing of two lasers in a plasma with density hill. <i>Physics of Plasmas</i> , 2017, 24, .	1.9	10
9	Generation of a quasi-monoenergetic high energy proton beam from a vacuum-sandwiched double layer target irradiated by an ultraintense laser pulse. <i>Physics of Plasmas</i> , 2014, 21, 043110.	1.9	8
10	Quasi-monoenergetic proton beam from a proton-layer embedded metal foil irradiated by an intense laser pulse. <i>Physics of Plasmas</i> , 2016, 23, 033119.	1.9	8
11	Study on the Tracks in a Nuclear Track Detector (CR39) for Detection of Laser-Induced Charged Particles. <i>Journal of the Korean Physical Society</i> , 2007, 51, 426.	0.7	8
12	Method for developing a sub-10 fs ultrafast electron diffraction technology. <i>Structural Dynamics</i> , 2020, 7, 034301.	2.3	7
13	Relationship between Terahertz and X-ray signals Generated from Laser-Induced Plasma on gas targets. <i>Journal of the Korean Physical Society</i> , 2010, 56, 275-278.	0.7	7
14	Effect of excited states on the ionization balance in plasmas via the enhancement of ionization and recombination rate coefficients. <i>Physical Review E</i> , 1999, 60, 2224-2230.	2.1	6
15	Generation of a few femtosecond keV x-ray pulse via interaction of a tightly focused laser copropagating with a relativistic electron bunch. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2011, 14, .	1.8	6
16	Real-time ultrafast oscilloscope with a relativistic electron bunch train. <i>Nature Communications</i> , 2021, 12, 6851.	12.8	6
17	Effect of the Prepulse Width on the Neutron Generation in a Femtosecond, Deuterated, Polystyrene Plasma. <i>Journal of the Korean Physical Society</i> , 2007, 51, 1695-1699.	0.7	5
18	Sub-10-fs Timing for Ultrafast Electron Diffraction with THz-Driven Streak Camera. <i>Laser and Photonics Reviews</i> , 2021, 15, 2000326.	8.7	5

#	ARTICLE	IF	CITATIONS
19	High-order photonic bandgap reflex klystron using carbon nanotube multi-beam cathode. Electronics Letters, 2012, 48, 707.	1.0	4
20	Femtosecond laser-driven intense Cu K $\hat{\pm}$ X-ray source with a novel film target driver. Journal of the Korean Physical Society, 2015, 67, 800-806.	0.7	4
21	Waveguide-Mode Terahertz Free Electron Lasers Driven by Magnetron-Based Microtrons. IEEE Transactions on Nuclear Science, 2016, 63, 898-905.	2.0	4
22	Performance of an Indium-sealed S-band RF Photoelectron Gun for Time-resolved Electron Diffraction Experiments. Journal of the Korean Physical Society, 2019, 74, 24-29.	0.7	4
23	Enhanced laser-driven ion acceleration from a low-density-PMMA coated metal-foil. AIP Advances, 2019, 9, 045304.	1.3	4
24	Prospects of a terahertz free-electron laser for field application. Journal of the Korean Physical Society, 2022, 80, 367-376.	0.7	4
25	Frequency multiplying oscillator with an electron beam accelerated in a drift space. Applied Physics Letters, 2012, 101, 013507.	3.3	3
26	Analysis of Neutron Production in Passively Scattered Ion-Beam Therapy. Radiation Protection Dosimetry, 2017, 175, 297-303.	0.8	3
27	The Real-Time Temporal and Spatial Diagnostics of Ultrashort High-Power Laser Pulses using an All-Reflective Single-Shot Autocorrelator. Journal of the Optical Society of Korea, 2014, 18, 382-387.	0.6	3
28	Innershell femtosecond x-ray lasers pumped by Larmor radiation and characteristics of Larmor radiation. , 2003, , .		2
29	Relativistic Nonlinear Thomson Scattering: Toward Intense Attosecond Pulse. , 2010, , .		2
30	A laser-induced repetitive fast neutron source applied for gold activation analysis. Review of Scientific Instruments, 2012, 83, 123504.	1.3	2
31	HE11 mode in a waveguide THZ FEL. Bulletin of the Russian Academy of Sciences: Physics, 2015, 79, 31-35.	0.6	2
32	THz-pump and X-ray-probe sources based on an electron linac. Review of Scientific Instruments, 2017, 88, 113306.	1.3	2
33	Ultrafast Electron Diffraction Technology for Exploring Dynamics of Molecules. Journal of the Korean Physical Society, 2018, 73, 466-478.	0.7	2
34	Gain and efficiency of table-top terahertz free-electron lasers driven by a microtron accelerator. Journal of the Korean Physical Society, 2021, 78, 1047.	0.7	2
35	Observation of Intense Terahertz Radiation from a Laser-Produced Relativistic Plasma Generated on Metal and Plastic Solid Targets. Journal of the Korean Physical Society, 2007, 51, 421.	0.7	2
36	Sequence effect of optical elements in a femtosecond Ti:sapphire laser oscillator. Journal of the Optical Society of America B: Optical Physics, 2003, 20, 1369.	2.1	1

#	ARTICLE	IF	CITATIONS
37	Development of advanced radiation sources at KAERI. Bulletin of the Russian Academy of Sciences: Physics, 2013, 77, 166-168.	0.6	1
38	Activation analysis of indium, KCl, and melamine by using a laser-induced neutron source. Journal of the Korean Physical Society, 2014, 64, 982-986.	0.7	1
39	Development of a High-power Terahertz Free Electron Laser Using a Microtron accelerator and an Electro-magnetic Planar Undulator. , 2019, , .		1
40	Magnetron power modulator for driving a microtron THz FEL. , 2019, , .		1
41	Calibration of radiochromic EBT3 film using laser-accelerated protons. Review of Scientific Instruments, 2021, 92, 023302.	1.3	1
42	Characterization of OPCPA with BBO crystal for femtosecond Ti:sapphire laser pulses. , 0, , .		0
43	Efficient generation of proton beams by irradiating an ultra-short, intense laser pulse on thick plastic targets. , 2007, , .		0
44	Fast neutron emission from a deuterated polystyrene solid target irradiated by a high-intensity laser pulse. , 2007, , .		0
45	The effect of tightly focused laser beam on the relativistic nonlinear Thomson scattered radiation. , 2007, , .		0
46	Design study of the KAERI Compton X-ray source depending on the laser intensity in the linear or non-linear regime. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 575, 17-21.	1.6	0
47	Terahertz radiations on target materials irradiated by an ultra-intense laser pulse. , 2008, , .		0
48	Design of a high-power table-top THz free-electron laser. , 2009, , .		0
49	Dependence of THz radiation on the condition of laser-plasma electron acceleration using a helium gas target. , 2009, , .		0
50	Energetic proton beams from plastic targets irradiated by an ultra-intense laser pulse. , 2011, , .		0
51	Gamma-ray generation using laser-accelerated electron beam. , 2011, , .		0
52	Numerical investigation of the radiation from an argon plasma generated by using a high explosive. Journal of the Korean Physical Society, 2013, 62, 1616-1621.	0.7	0
53	Generation of laser-induced fast neutrons and application for activation analysis. , 2013, , .		0
54	Cherenkov oscillator operating at the second band gap of leakage waveguide structures. AIP Advances, 2016, 6, 105210.	1.3	0

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55	Dosimetric properties of plasma density effects on laser-accelerated VHEE beams using a sharp density-transition scheme. Journal of the Korean Physical Society, 2017, 70, 66-74.	0.7	0
56	Real-time Terahertz Waveform Measurement by using Relativistic Electron Streak Camera. , 2019, , .		0
57	Modified calculation method using FFT filtering and reconstructing of an interferogram for monitoring a laser-plasma density. Journal of the Korean Physical Society, 2021, 79, 297-308.	0.7	0
58	?Spectral characteristics of nonlinear Compton backscattering of an ultra-intense laser pulse by relativistic electrons. Journal of the Korean Physical Society, 2010, 56, 265-268.	0.7	0
59	Low-loss and small-cross-section waveguide for compact terahertz free-electron laser. , 2022, 1, 91.		0