

Hideyuki Kotaki

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

667
citations

687363

13
h-index

580821

25
g-index

41
all docs

41
docs citations

41
times ranked

612
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Photon Number Reflected by the Relativistic Flying Mirror. <i>Physical Review Letters</i> , 2009, 103, 235003.	7.8	101
2	Controlled electron injection into the wake wave using plasma density inhomogeneity. <i>Physics of Plasmas</i> , 2008, 15, .	1.9	88
3	Frequency multiplication of light back-reflected from a relativistic wake wave. <i>Physics of Plasmas</i> , 2007, 14, 123106.	1.9	85
4	High-Contrast, High-Intensity Petawatt-Class Laser and Applications. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2015, 21, 232-249.	2.9	60
5	Electron Optical Injection with Head-On and Countercrossing Colliding Laser Pulses. <i>Physical Review Letters</i> , 2009, 103, 194803.	7.8	59
6	Soft x-ray source for nanostructure imaging using femtosecond-laser-irradiated clusters. <i>Applied Physics Letters</i> , 2008, 92, 121110.	3.3	52
7	Phase-contrast x-ray imaging with intense Ar ^{Kα} radiation from femtosecond-laser-driven gas target. <i>Applied Physics Letters</i> , 2007, 90, 211501.	3.3	31
8	Laser pulse guiding and electron acceleration in the ablative capillary discharge plasma. <i>Physics of Plasmas</i> , 2009, 16, .	1.9	29
9	Generation of stable and low-divergence 10-MeV quasimonoenergetic electron bunch using argon gas jet. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	28
10	On the production of flat electron bunches for laser wakefield acceleration. <i>Journal of Experimental and Theoretical Physics</i> , 2007, 105, 916-926.	0.9	15
11	Ultra-Intense, High Spatio-Temporal Quality Petawatt-Class Laser System and Applications. <i>Applied Sciences (Switzerland)</i> , 2013, 3, 214-250.	2.5	15
12	Experimental studies of the high and low frequency electromagnetic radiation produced from nonlinear laser-plasma interactions. <i>European Physical Journal D</i> , 2009, 55, 465-474.	1.3	14
13	X-ray spectroscopy diagnoses of clusters surviving under prepulses of ultra-intense femtosecond laser pulse irradiation. <i>Laser and Particle Beams</i> , 2012, 30, 481-488.	1.0	13
14	Electro-optic spatial decoding on the spherical-wavefront Coulomb fields of plasma electron sources. <i>Scientific Reports</i> , 2018, 8, 2938.	3.3	13
15	Generation of Quantum Beams in Large Clusters Irradiated by Super-Intense, High Contrast Femtosecond Laser Pulses. <i>Contributions To Plasma Physics</i> , 2013, 53, 148-160.	1.1	11
16	Ionography of nanostructures with the use of a laser plasma of cluster targets. <i>JETP Letters</i> , 2009, 89, 485-491.	1.4	9
17	Direct Observation of the Pulse Width of an Ultrashort Electron Beam. <i>Journal of the Physical Society of Japan</i> , 2015, 84, 074501.	1.6	8
18	Condition of MeV Electron Bunch Generated from Argon Gas-Jet Target in the Self-Modulated Laser Wakefield Regime. <i>Journal of the Physical Society of Japan</i> , 2011, 80, 105001.	1.6	7

#	ARTICLE	IF	CITATIONS
19	High performance imaging of relativistic soft X-ray harmonics by sub-micron resolution LiF film detectors. Physica Status Solidi C: Current Topics in Solid State Physics, 2012, 9, 2331-2335.	0.8	7
20	Demonstration of Flying Mirror with Improved Efficiency. , 2009, , .		6
21	Variation in electron emission time in weakly nonlinear laser wakefield acceleration. Physical Review Accelerators and Beams, 2019, 22, .	1.6	4
22	Generation of a quasimonoenergetic electron beam using a single laser pulse. Laser Physics, 2006, 16, 1107-1110.	1.2	2
23	Electron Acceleration Based on an Elongated Plasma Channel. IEEE Transactions on Plasma Science, 2008, 36, 1734-1737.	1.3	2
24	Observation of Low-Frequency Electromagnetic Radiation from Laser-Plasmas. , 2009, , .		2
25	Effects of the self-absorption of X-ray spectral lines in the presence of the laser-cluster interaction. JETP Letters, 2011, 94, 270-276.	1.4	2
26	20 MeV QUASI-MONOENERGETIC ELECTRON BEAM PRODUCTION BY USING JLITE-X LASER SYSTEM AT JAEA-APRC. International Journal of Modern Physics B, 2007, 21, 407-414.	2.0	1
27	Relativistic high harmonic generation in gas jet targets. , 2012, , .		1
28	Xe K-shell X-ray generation using conical nozzle and 25 TW laser. Laser and Particle Beams, 2013, 31, 419-425.	1.0	1
29	Single-Shot Electro-Optic Sampling on the Temporal Structure of Laser Wakefield Accelerated Electrons. Crystals, 2020, 10, 640.	2.2	1
30	Generation and characterization of electrons from a gas target irradiated by high-peak-power lasers. Laser Physics, 2006, 16, 576-580.	1.2	0
31	Focusing quality of a split short laser pulse. Review of Scientific Instruments, 2007, 78, 036102.	1.3	0
32	Contrast Effect on the Laser Injected Electron Beam. , 2009, , .		0
33	Generation of Parametric X-rays by using Electron Accelerator. , 2009, , .		0
34	Demonstration of high peak power, high contrast OPCPA/Ti:sapphire hybrid laser system. , 2009, , .		0
35	High-order harmonics from gas-target irradiated by relativistic-intensity laser. , 2013, , .		0
36	Fine spectral structure of high order harmonics generated by multi-terawatt femtosecond lasers focused to gas jet targets. , 2013, , .		0

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37	Minimum Condition of Target Gas Material at an Ionization-Stage Control Scheme in a Laser-Plasma Electron Acceleration. , 2014, , .		0
38	Recent progress on an upgrade of the J-KAREN laser at JAEA. , 2015, , .		0
39	High-energy high-quality electron beam generation by using an intense laser. The Review of Laser Engineering, 2008, 36, 71-72.	0.0	0
40	Stable Generation of A Mono-Energetic Electron Beam by Using Optical Injection. The Review of Laser Engineering, 2012, 40, 814.	0.0	0
41	High Power Laser Developments with Femtosecond to Nanosecond Pulse Durations for Laser Shock Science and Engineering. The Review of Laser Engineering, 2014, 42, 441.	0.0	0