Yuto Kato

List of Publications by Year in descending order

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102 papers	1,718 citations	394421 19 h-index	302126 39 g-index
102 all docs	102 docs citations	102 times ranked	1185 citing authors

#	Article	IF	Citations
1	Annealing-induced enhancement of electrical conductivity and electromagnetic interference shielding in injection-molded CNT polymer composites. Polymer, 2022, 245, 124680.	3.8	11
2	Broadband Conductivity Measurement Technique at Millimeter-Wave Bands Using a Balanced-Type Circular Disk Resonator. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 861-873.	4.6	9
3	Aperture Efficiency Improvement by Reflectionless Metasurfaces for Large-Aperture Antennas. , 2021, , .		0
4	Broadband complex permittivity and conductivity measurements in the millimeter-wave bands over variable temperatures using a balanced-type circular disk resonator. Applied Physics Letters, 2021, 119, 092902.	3.3	3
5	Novel Method for Measuring Complex Permittivity of Thin Films at Millimeter Frequencies. , 2021, , .		0
6	D-Band Perfect Anomalous Reflectors for 6G Applications. IEEE Access, 2021, 9, 157512-157521.	4.2	19
7	Broadband Conductivity Measurement Method up to 110 GHz Using a Balanced-Type Circular Disk Resonator. , 2020, , .		2
8	Ultrathin Perfect Absorbers for Normal Incident Waves Using Dirac Cone Metasurfaces With Critical External Coupling. IEEE Microwave and Wireless Components Letters, 2020, 30, 383-386.	3.2	18
9	Dynamic measurement of moisture content using microwaves for moisture evaluation of agricultural products. IEEJ Transactions on Electrical and Electronic Engineering, 2020, 15, 166-171.	1.4	5
10	Impedance-Matching Technique of Metasurfaces Generating Evanescent Fields for Subwavelength Focusing. IEEE Transactions on Microwave Theory and Techniques, 2020, 68, 1401-1408.	4.6	4
11	Prediction of Transmission Loss Considering Uncertainties of Dielectric Properties in Millimeter Waveband. , 2020, , .		0
12	Extraordinary Transmission by Double-Sided Hyperbolic Metasurfaces With $Gamma$ -Point Degeneration at Millimeter-Wave Bands. IEEE Transactions on Microwave Theory and Techniques, 2019, 67, 3297-3305.	4.6	4
13	Broadband Permittivity Measurements up to 170-GHz Using Balanced-Type Circular-Disk Resonator Excited by 0.8-mm Coaxial Line. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1796-1805.	4.7	32
14	Improvement of Broadband Characterization of Dielectric Waveguide at the Ka -Band by Using TRL Calibration Method. IEEE Transactions on Instrumentation and Measurement, 2019, 68, 1788-1795.	4.7	1
15	Experiments on the External Coupling Control of a Dirac Cone Metasurface for Extraordinary Transmission. , 2019, , .		0
16	Examples of Loss Prediction and Measurement of LTCC Circuits Uncertainties of dielectric loss in millimeter waveband. , 2018, , .		2
17	Validity Evaluation of Application of TRL Calibration Method to Dielectric Waveguide Measurement by Electromagnetic Simulation. , 2018, , .		1
18	Broadband Permittivity Measurements Using a Frequency-Variable Balanced-Type Circular-Disk Resonator. , 2018, , .		3

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19	A 2-D Via-Free Indefinite Anisotropic Medium with LH and RH modes Degenerated at the Î“ - Point. , 2018, , .		0
20	Improvement of Transmission/Reflection Method for Permittivity Measurement Using Long Fixtures With Time-Domain Analysis Approach. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1201-1207.	4.7	6
21	New Permittivity Measurement Methods Using Resonant Phenomena For High-Permittivity Materials. IEEE Transactions on Instrumentation and Measurement, 2017, 66, 1191-1200.	4.7	19
22	Stretchable electromagnetic-interference shielding materials made of a long single-walled carbon-nanotubeâ€“elastomer composite. RSC Advances, 2017, 7, 10841-10847.	3.6	66
23	Characteristics of a double-sided dirac cone metamaterial. , 2017, , .		2
24	Development of permittivity measurement system at microwave and millimeter wave frequencies for low-loss substrate characterization. , 2017, , .		3
25	A Simply Structured Transverse Slot Linear Array Antenna in a Quasi-TEM Mode Waveguide. IEICE Transactions on Electronics, 2017, E100.C, 924-927.	0.6	1
26	First results of the 2.45 GHz Oshima electron cyclotron resonance ion source. Review of Scientific Instruments, 2016, 87, 02A730.	1.3	1
27	Permittivity measurements and associated uncertainties up to 110 GHz in circular-disk resonator method. , 2016, , .		18
28	Performance evaluations of dielectric waveguide for millimeter-wave on-wafer measurements. , 2016, , .		2
29	Recent developments of ion sources for life-science studies at the Heavy Ion Medical Accelerator in Chiba (invited). Review of Scientific Instruments, 2016, 87, 02C107.	1.3	9
30	Development of a compact ECR ion source for various ion production. Review of Scientific Instruments, 2016, 87, 02C110.	1.3	10
31	Permittivity measurements for high-permittivity materials at NMIJ using resonator methods. , 2016, , .		1
32	Improvement of uncertainty analysis for waveguide VNA measurement at terahertz frequency. , 2016, , .		2
33	Permittivity measurement using a long fixture to eliminate reflection effect at fixture ends. , 2016, , .		2
34	Dynamic measurements of moisture content using microwave signal and its verification. , 2016, , .		7
35	Two-chamber configuration of Bio-Nano electron cyclotron resonance ion source for fullerene modification. Review of Scientific Instruments, 2016, 87, 02A720.	1.3	1
36	A study of uncertainty estimation for time-domain analysis by considering incompleteness of TRL calibration kit. , 2015, , .		3

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37	Consideration of error model with cable flexure influences on waveguide vector network analyzers at submillimeter-wave frequency. , 2015, , .		3
38	New Uncertainty Analysis for Permittivity Measurements Using the Transmission/Reflection Method. IEEE Transactions on Instrumentation and Measurement, 2015, 64, 1748-1753.	4.7	18
39	Comparison of Calculation Techniques for Q-Factor Determination of Resonant Structures Based on Influence of VNA Measurement Uncertainty. IEICE Transactions on Electronics, 2014, E97.C, 575-582.	0.6	9
40	Synthesis of endohedral iron-fullerenes by ion implantation. Review of Scientific Instruments, 2014, 85, 02A945.	1.3	10
41	Status of the Bio-Nano electron cyclotron resonance ion source at Toyo University. Review of Scientific Instruments, 2014, 85, 02C317.	1.3	8
42	Study of reflection effect at fixture interfaces on permittivity measurements using the transmission/reflection method. , 2014, , .		3
43	Two-frequency heating technique at the 18 GHz electron cyclotron resonance ion source of the National Institute of Radiological Sciences. Review of Scientific Instruments, 2014, 85, 02A931.	1.3	11
44	Fullerene-rare gas mixed plasmas in an electron cyclotron resonance ion source. Review of Scientific Instruments, 2014, 85, 02A936.	1.3	4
45	Design of a new electron cyclotron resonance ion source at Oshima National College of Maritime Technology. Review of Scientific Instruments, 2014, 85, 02A940.	1.3	4
46	New uncertainty analysis and simplified verification method for permittivity measurements using the Transmission/Reflection method by utilizing a weighted factor. , 2014, , .		3
47	Geometric resonances in the magnetoresistance of hexagonal lateral superlattices. Physical Review B, 2012, 86, .	3.2	8
48	Development of a Radiation Detector Based on Silicon Carbide. Journal of Nuclear Science and Technology, 2008, 45, 489-491.	1.3	2
49	Novel bromide anion conducting refractory solid electrolytes based on lanthanum oxybromide. Journal of Materials Science, 2005, 40, 6495-6498.	3.7	9
50	Laser-Hole Boring into Overdense Plasmas Measured with Soft X-Ray Laser Probing. Physical Review Letters, 2000, 84, 2405-2408.	7.8	37
51	Long-Scale Jet Formation with Specularly Reflected Light in Ultraintense Laser-Plasma Interactions. Physical Review Letters, 2000, 84, 674-677.	7.8	78
52	Full characterization of a high-gain saturated x-ray laser at 13.9 nm. Physical Review A, 2000, 61, .	2.5	31
53	Development of a two-dimensional space-resolved high speed sampling camera. Review of Scientific Instruments, 1999, 70, 625-628.	1.3	54
54	Studies on collisional pumping of soft X-ray lasers at ILE. IEEE Journal of Selected Topics in Quantum Electronics, 1999, 5, 1460-1468.	2.9	3

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55	Study of laser-imploded core plasmas with an advanced Kirkpatrickâ€“Baez x-ray microscope. Review of Scientific Instruments, 1997, 68, 824-827.	1.3	17
56	Free wave laser acceleration of electrons and consequences for the Umstadter experiment. , 1997, , .		1
57	ãƒ¬ãƒ¼ã‚¶ãƒ¼è£…ç½®. The Review of Laser Engineering, 1997, 25, 64-79,84.	0.0	0
58	Study of Laser-Hole Boring into Overdense Plasmas. Physical Review Letters, 1996, 77, 4906-4909.	7.8	70
59	Second-harmonic generation with traveling-wave pulses. Applied Physics B: Lasers and Optics, 1996, 63, 237-242.	2.2	2
60	Efficient third-harmonic generation of a picosecond laser pulse with time delay. IEEE Journal of Quantum Electronics, 1996, 32, 127-136.	1.9	16
61	Laser Fusion Research at Ile Osaka University. Fusion Science and Technology, 1996, 30, 625-633.	0.6	3
62	Development of multi channel neutron spectrometer at GEKKO XII laser fusion facility. AIP Conference Proceedings, 1996, , .	0.4	2
63	Measurement of absorption distribution by second harmonic and x-ray images. AIP Conference Proceedings, 1996, , .	0.4	1
64	Implosion experiments with uniformity-improved GEKKO XII: Overview. AIP Conference Proceedings, 1996, , .	0.4	1
65	Collisional excitation soft X-ray laser at 23.6 nm in a laser-produced cylindrical target. Applied Physics B: Lasers and Optics, 1996, 62, 129-133.	2.2	5
66	Recent progress of implosion experiments with uniformityâ€improved GEKKO XII laser facility at the Institute of Laser Engineering, Osaka University. Physics of Plasmas, 1996, 3, 2077-2083.	1.9	34
67	Observation of Ultrahigh Gradient Electron Acceleration by a Self-Modulated Intense Short Laser Pulse. Physical Review Letters, 1995, 75, 984-984.	7.8	6
68	Temperature mapping of compressed fusion pellets obtained by monochromatic imaging. Review of Scientific Instruments, 1995, 66, 734-736.	1.3	31
69	Observation of Polarization of the Soft X-Ray Laser Line in Neonlike Germanium Ions. Physical Review Letters, 1995, 75, 3826-3829.	7.8	42
70	Measurement of linewidths of Neâ€like germanium soft xâ€ray laser in slab targets. Journal of Applied Physics, 1995, 78, 3610-3616.	2.5	9
71	Laserâ€imploded core structure observed by using twoâ€dimensional xâ€ray imaging with 10â€ps temporal resolution. Review of Scientific Instruments, 1995, 66, 722-724.	1.3	31
72	Study of indirectly driven implosion by xâ€ray spectroscopic measurements. Physics of Plasmas, 1995, 2, 2063-2074.	1.9	42

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73	Observation of Ultrahigh Gradient Electron Acceleration by a Self-Modulated Intense Short Laser Pulse. Physical Review Letters, 1995, 74, 4428-4431.	7.8	341
74	ãƒ¬ãƒ¼ã‚¶ãƒ¼ã‚¨ãƒãƒ«ã‚®ãƒ¼å¿œç”¨. The Review of Laser Engineering, 1995, 23, 99-107,112.	0.0	0
75	Indirect-drive inertial fusion research at the Institute of Laser Engineering. AIP Conference Proceedings, 1994, , .	0.4	0
76	Generation of Small-Divergence Soft X-Ray Laser by Plasma Waveguiding with a Curved Target. Physical Review Letters, 1994, 73, 3215-3218.	7.8	83
77	Soft xâ€ray spectra of highly ionized elements with atomic numbers ranging from 57 to 82 produced by compact lasers. Journal of Applied Physics, 1994, 75, 1923-1930.	2.5	42
78	Xâ€ray emission from highâ€Zmixture plasmas generated with intense blue laser light. Applied Physics Letters, 1993, 62, 1344-1346.	3.3	35
79	4.8â€keV xâ€ray backlight framing method for observing images of softâ€xâ€rayâ€driven fusion capsules. Review of Scientific Instruments, 1993, 64, 706-710.	1.3	10
80	Properties of an exploding foil neon-like germanium soft X-ray laser. Laser and Particle Beams, 1993, 11, 109-117.	1.0	7
81	Radiation-driven cannonball targets for high-convergence implosions. Laser and Particle Beams, 1993, 11, 89-96.	1.0	2
82	Experiments on Carbon Balmer-.ALPHA. Soft X-Ray Lasers Pumped with a 12ps KrF Laser.. The Review of Laser Engineering, 1993, 21, 625-633.	0.0	0
83	Numerical method for finding uniform irradiation conditions of a fusion capsule driven by X-ray radiation. Laser and Particle Beams, 1992, 10, 421-433.	1.0	9
84	Line xâ€ray emissions from highly ionized plasmas of various species irradiated by compact solidâ€state lasers. Journal of Applied Physics, 1992, 72, 3355-3362.	2.5	37
85	Measurement and detail analysis of gain on balmerâ€alpha line of hydrogenâ€like carbon in wallâ€confined CO2laserâ€produced plasmas. Journal of Applied Physics, 1991, 69, 4189-4195.	2.5	5
86	Recent results from experiments on xâ€ray confining cavities (abstract). Review of Scientific Instruments, 1990, 61, 2813-2813.	1.3	1
87	Energy transport experiments at Institute of Laser Engineering, Osaka University. Laser and Particle Beams, 1989, 7, 495-504.	1.0	2
88	Insitumeasurement of micromass of the fuel in a cryogenic foam target for laser fusion research. Applied Physics Letters, 1989, 55, 2600-2602.	3.3	3
89	Scalings of implosion experiments for high neutron yield. Physics of Fluids, 1988, 31, 2884.	1.4	165
90	Measurement of Tritium Partial Pressure in Fueling System for ICF Target by Means of Fluorescent Powder. Fusion Science and Technology, 1988, 14, 845-849.	0.6	4

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91	Development of a reliable fast response laserâ€triggered dielectric switch. Review of Scientific Instruments, 1986, 57, 173-176.	1.3	3
92	Highly damage resistant, broadband, hard antireflection coating for high power lasers in the ultraviolet to nearâ€infrared wavelength regions. Applied Physics Letters, 1985, 47, 911-913.	3.3	16
93	Lasertron, a Photocathode Microwave Device Switched by Laser. IEEE Transactions on Nuclear Science, 1985, 32, 2831-2833.	2.0	6
94	Pointâ€source xâ€ray backlighting for highâ€density plasma diagnostics. Applied Physics Letters, 1983, 42, 160-162.	3.3	16
95	Direct measurement of saturation property of an electron beam pumped KrF laser. AIP Conference Proceedings, 1983, , .	0.4	2
96	3.4â€TW performance of a Nd:phosphate glass laser with output aperture of 20 cm. Applied Physics Letters, 1981, 38, 72-73.	3.3	23
97	cw oscillation in a Ndâ€‰:â€‰phosphate glass laser. Applied Physics Letters, 1979, 34, 273-275.	3.3	19
98	FACILITIES OF HIGH POWER LASERS IN OSAKA UNIVERSITY. The Review of Laser Engineering, 1977, 4, 71-79.	0.0	0
99	THERMONUCLEAR FUSION PLASMA BY LASERS COUPLING AND IMPLOSION. The Review of Laser Engineering, 1977, 4, 32-50.	0.0	0
100	Coherence And Brightness Of Soft X-ray Lasers. , 0, , .		0
101	High-intensity x-ray pulses from picosecond glass laser produced plasmas. , 0, , .		0
102	Automated calibration for micro hand using visual information. , 0, , .		12