Koichi Sasaki

List of Publications by Year
in descending order

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54	798	687363	580821
papers	citations	13 h-index	25 g-index

54	54	54	617
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Detection of solvated electrons below the interface between atmospheric-pressure plasma and water by laser-induced desolvation. Plasma Sources Science and Technology, 2022, 31, 03LT02.	3.1	3
2	Observation of currentless redox reactions on surface of water jet immersed in low-pressure plasma. Plasma Sources Science and Technology, 2022, 31, 06LT02.	3.1	3
3	Estimation of Vibrational Temperatures of N₂and CO₂in Low-Pressure Electron Cyclotron Resonance Plasmas by Threshold Ionization Mass Spectrometry. Plasma and Fusion Research, 2022, 17, 1406070-1406070.	0.7	1
4	Reaction frequency of solvated electrons in water interacting with atmospheric-pressure helium plasma jet. Japanese Journal of Applied Physics, 2021, 60, 096001.	1.5	1
5	Reactivity of solvated electrons in ionic liquid interacting with low-pressure plasmas. Japanese Journal of Applied Physics, 2020, 59, 066001.	1.5	3
6	Observation of ¹Dâ^'¹S forbidden optical emission of atomic oxygen in atmosphericâ€pressure N₂/O₂ plasma jet. Contributions To Plasma Physics, 2020, 60, e202000061.	1.1	2
7	Nitriding of 4H-SiC by irradiation of fourth harmonics of Nd:YAG laser pulses in liquid nitrogen. SN Applied Sciences, 2020, 2, 1.	2.9	0
8	Negative ion species in atmospheric-pressure helium dc glow discharge produced in ambient air. Plasma Sources Science and Technology, 2020, 29, 085012.	3.1	5
9	Rate Coefficient of CO₂ Splitting via Vibrational Excited States in Recombining Plasmas with Ultralow Electron Temperatures. Vacuum and Surface Science, 2020, 63, 635-640.	0.1	0
10	Rate coefficient of CO₂ splitting in recombining H₂ and He plasmas with ultralow electron temperatures. Plasma Sources Science and Technology, 2020, 29, 115016.	3.1	4
11	Correlation between gas-phase OH density and intensity of luminol chemiluminescence in liquid interacting with atmospheric-pressure plasma. Journal Physics D: Applied Physics, 2019, 52, 39LT02.	2.8	12
12	Visualization of short-lived reactive species in liquid in contact with atmospheric-pressure plasma by chemiluminescence of luminol. Applied Physics Express, 2018, 11, 026201.	2.4	12
13	Suppression of carbon desorption from 4H-SiC by irradiating a remote nitrogen plasma at a low temperature. Japanese Journal of Applied Physics, 2018, 57, 056201.	1.5	1
14	Decomposition of carbon dioxide by recombining hydrogen plasma with ultralow electron temperature. Applied Physics Express, 2018, 11, 066202.	2.4	0
15	Comparison between absolute densities of metastable state and ground state of atoms in CZTS sputtering plasmas. AIP Conference Proceedings, 2017, , .	0.4	0
16	Excitation of cavitation bubbles in low-temperature liquid nitrogen. Japanese Journal of Applied Physics, 2017, 56, 068002.	1.5	3
17	Physics-based investigation of negative ion behavior in a negative-ion-rich plasma using integrated diagnostics. AIP Conference Proceedings, 2017, , .	0.4	6
18	Discharge phenomena in a cavitation bubble induced by liquid-phase laser ablation. Journal Physics D: Applied Physics, 2017, 50, 325202.	2.8	4

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19	ãƒ¬ãƒ¼ã‚¶ãƒ¼èª˜èµ·ã‚ãƒ£ãƒ“ãƒ†ãƒ¼ã‚·ãƒ§ãƒ³ãƒãƒ–ãƒ«ã‚'ãã®ãƒŠãƒŽæ—™å‰µæˆã‚ã®å½¹å‰². The Review of Laser Engineering,	0.1	0
20	Spectrum of laser light scattered by nanoparticles in an ablation-induced cavitation bubble. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	2.3	7
21	Measurements of absolute Cu, Zn and Sn metastable densities in CZTS sputtering plasmas measured using UVAS technique. , 2016, , .		0
22	An Attempt to Produce Electrical Discharges in Acoustic Cavitation Bubbles. Plasma and Fusion Research, 2016, 11, 1406113-1406113.	0.7	2
23	Nitriding characteristics of 4H-SiC irradiated with remote nitrogen plasmas. Japanese Journal of Applied Physics, 2016, 55, 036503.	1.5	3
24	Negative ion production and beam extraction processes in a large ion source (invited). Review of Scientific Instruments, 2016, 87, 02B936.	1.3	33
25	Nickel nanoparticles generated by pulsed laser ablation in liquid CO2. Research on Chemical Intermediates, 2016, 42, 4581-4590.	2.7	6
26	Density distributions of OH, Na, water vapor, and water mist in atmospheric-pressure dc helium glow plasmas in contact with NaCl solution. EPJ Applied Physics, 2015, 71, 20807.	0.7	16
27	Spatial distribution of OH radical density in atmospheric-pressure dc helium glow plasma in contact with electrolyte solution. Japanese Journal of Applied Physics, 2015, 54, 01AF02.	1.5	16
28	Electron Temperatures and Electron Densities in Microwave Helium Discharges with Pressures Higher than 0.1 MPa. Contributions To Plasma Physics, 2015, 55, 563-569.	1.1	6
29	Hydrogen atom temperature measured with wavelength-modulated laser absorption spectroscopy in large scale filament arc negative hydrogen ion source. AIP Conference Proceedings, 2015, , .	0.4	8
30	Influence of mirror size on ringdown frequency in cavity-ringdown spectroscopy of slender premixed burner flame. Japanese Journal of Applied Physics, 2015, 54, 088005.	1.5	2
31	Effect of ultrasonic wave on the syntheses of Au and ZnO nanoparticles by laser ablation in water. Applied Physics A: Materials Science and Processing, 2013, 110, 835-839.	2.3	19
32	Structure and size control of ZnO nanoparticles by applying high pressure to ambient liquid in liquid-phase laser ablation. Applied Physics A: Materials Science and Processing, 2013, 110, 779-783.	2.3	9
33	LIF Imaging of OH radicals in Atmospheric DC Glow Discharge Using Miniature Gas Flow and Electrolyte Cathode. Materials Research Society Symposia Proceedings, 2013, 1598, 1.	0.1	1
34	Optical Emission of Molecular Hydrogen in a Recombining Hydrogen Plasma. Contributions To Plasma Physics, 2012, 52, 676-681.	1.1	1
35	Effect of Water Pressure on Size of Nanoparticles in Liquid-Phase Laser Ablation. Japanese Journal of Applied Physics, 2011, 50, 108003.	1.5	7
36	Measurements of Rotational Temperature and Density of Molecular Nitrogen in Spark-Plug Assisted Atmospheric-Pressure Microwave Discharges by Rotational Raman Scattering. Japanese Journal of Applied Physics, 2011, 50, 076101.	1.5	5

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37	Effect of Water Pressure on Size of Nanoparticles in Liquid-Phase Laser Ablation. Japanese Journal of Applied Physics, 2011, 50, 108003.	1.5	10
38	Spectroscopic Studies on Laser-Produced Carbon Vapor. , 2011, , 55-76.		0
39	Effect of water pressure on the size of nanoparticles in liquid-phase laser ablation. , 2010, , .		0
40	Modification of Rayleighâ€“Plesset Theory for Reproducing Dynamics of Cavitation Bubbles in Liquid-Phase Laser Ablation. Japanese Journal of Applied Physics, 2010, 49, 116202.	1.5	71
41	Growth Processes of Nanoparticles in Liquid-Phase Laser Ablation Studied by Laser-Light Scattering. Applied Physics Express, 2010, 3, 035201.	2.4	91
42	Liquid-phase laser ablation. Pure and Applied Chemistry, 2010, 82, 1317-1327.	1.9	102
43	Influence of additional external pressure on optical emission intensity in liquid-phase laser ablation. Applied Surface Science, 2009, 255, 9572-9575.	6.1	34
44	Synthesis of crystalline TiN and Si particles by laser ablation inÂliquid nitrogen. Applied Physics A: Materials Science and Processing, 2008, 93, 833-836.	2.3	58
45	Negative ion densities in high-density, low-temperature recombining hydrogen plasmas. Journal Physics D: Applied Physics, 2008, 41, 195204.	2.8	12
46	Nitridation of titanium surface by the irradiation of YAG laser pulses in N2/O2gas mixture and liquid nitrogen. Journal of Physics: Conference Series, 2007, 59, 40-43.	0.4	17
47	Diagnostics of liquid-phase laser ablation plasmas by spectroscopic methods. Journal of Physics: Conference Series, 2007, 59, 563-566.	0.4	27
48	Measurements of Gas Temperature in High-Density Helicon-Wave H2Plasmas by Diode Laser Absorption Spectroscopy. Japanese Journal of Applied Physics, 2005, 44, 6759-6763.	1.5	22
49	Development of a Compact Divertor Simulator Excited by Helicon-Wave Discharge. Japanese Journal of Applied Physics, 2004, 43, 1164-1165.	1.5	18
50	Diagnostics of Fluorine Negative Ions by Laser Photodetachment Combined with a Heated Probe in High-Density CF 4 Plasmas. Japanese Journal of Applied Physics, 1997, 36, L1702-L1705.	1.5	19
51	Temporal Variation of Two-Dimensional Temperature in a Laser-Ablation Plume Produced from a Graphite Target. Applied Physics Express, 0, 1, 086001.	2.4	5
52	Effect of Pressurization on the Dynamics of a Cavitation Bubble Induced by Liquid-Phase Laser Ablation. Applied Physics Express, 0, 2, 046501.	2.4	106
53	Eï¬ƒcient production and transport of OH radicals in spatial afterglow of atmospheric-pressure DC glow discharge using intersecting helium ï¬‚ows. Plasma Sources Science and Technology, 0, , .	3.1	3
54	Effect of atmospheric-pressure plasma irradiation on the surface tension of water. Journal Physics D: Applied Physics, 0, , .	2.8	2