

Yoshizo Kawaguchi

List of Publications by Year in descending order

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104
papers

1,360
citations

304743

22
h-index

377865

34
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104
all docs

104
docs citations

104
times ranked

653
citing authors

#	ARTICLE	IF	CITATIONS
1	Investigation of the factors affecting the limit of detection of laser-induced breakdown spectroscopy for surface inspection. <i>Plasma Science and Technology</i> , 2019, 21, 034021.	1.5	5
2	Pre-bond surface inspection using laser-induced breakdown spectroscopy for the adhesive bonding of multiple materials. <i>International Journal of Adhesion and Adhesives</i> , 2019, 93, 102320.	2.9	4
3	Detection of trace substances adhered to a metal surface by laser-induced breakdown spectroscopy. <i>Journal of Analytical Atomic Spectrometry</i> , 2017, 32, 609-615.	3.0	11
4	Surface Microstructuring of Glass Materials by Laser-Induced Backside Wet Etching. The Review of <i>Laser Engineering</i> , 2017, 45, 273.	0.0	0
5	Effects of pn Doping in Thiophene/Phenylene Co-oligomers Thin Films. <i>Molecular Crystals and Liquid Crystals</i> , 2015, 620, 153-158.	0.9	5
6	Large gain for crystalline thin films of thiophene/phenylene co-oligomer by photopumping with femtosecond laser pulses. <i>Journal of Luminescence</i> , 2014, 155, 338-342.	3.1	4
7	Laser cutting of carbon fiber reinforced thermo-plastics (CFRTP) by single-mode fiber laser irradiation. , 2014, , .		0
8	On-Demand Deposition of Functional Oxide Microdots by Double-Pulse Laser-Induced Dot Transfer. <i>Journal of Laser Micro Nanoengineering</i> , 2014, 9, 10-14.	0.1	13
9	Laser Ablation of Carbon Fiber Reinforced Plastics: Laser-Ionization TOF Mass Spectrometric Study. <i>Journal of Laser Micro Nanoengineering</i> , 2014, 9, 59-63.	0.1	3
10	Laser Cutting of Carbon Fiber Reinforced Thermo-Plastic (CFRTP) by IR Laser Irradiation. <i>Journal of Laser Micro Nanoengineering</i> , 2014, 9, 180-186.	0.1	1
11	Laser cutting of carbon fiber reinforced plastics (CFRP) by 1kW cw fiber laser irradiation. <i>Proceedings of SPIE</i> , 2013, , .	0.8	7
12	Electronic states of thiophene/phenylene co-oligomers: Extreme-ultra violet excited photoelectron spectroscopy observations and density functional theory calculations. <i>Journal of Applied Physics</i> , 2013, 113, 083710.	2.5	14
13	Laser cutting of carbon fiber reinforced plastics (CFRP) by fiber laser irradiation. , 2013, , .		2
14	Evaluation of amplified spontaneous emission from photopumped thiophene/phenylene co-oligomers in polycrystalline states. <i>Proceedings of SPIE</i> , 2012, , .	0.8	1
15	Optimization of thermal treatment of vapor-deposited thiophene/phenylene co-oligomer films. <i>Journal of Crystal Growth</i> , 2012, 345, 39-43.	1.5	11
16	On-Demand Preparation of Microdot Patterns by Laser-Induced Dot Transfer. <i>Journal of Laser Micro Nanoengineering</i> , 2012, 7, 77-80.	0.1	2
17	Variation in the Etch Rate of LIBWE Fabricating Deep Microtrenches. <i>Journal of Laser Micro Nanoengineering</i> , 2012, 7, 81-86.	0.1	6
18	Surface Microstructuring of Glasses by Laser-Induced Backside Wet Etching. The Review of <i>Laser Engineering</i> , 2012, 40, 106.	0.0	0

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19	Laser-Induced Backside Wet Etching Employing Green DPSS Laser and Liquid Metallic Absorber. Journal of Laser Micro Nanoengineering, 2011, 6, 204-208.	0.1	8
20	Flexible 3D deep microstructures of silica glass by laser-induced backside wet etching. Applied Physics A: Materials Science and Processing, 2010, 101, 319-323.	2.3	15
21	Flexible fabrication of deep microstructures by laser-induced backside wet etching. , 2010, , .		2
22	Fabrication of Multiple Slanted Microstructures on Silica Glass by Laser-Induced Backside Wet Etching. Journal of Laser Micro Nanoengineering, 2010, 5, 256-262.	0.1	7
23	Progress in laser-induced backside wet etching. , 2010, , .		0
24	Nano- and microdot array formation by laser-induced dot transfer. Applied Surface Science, 2009, 255, 9703-9706.	6.1	17
25	Fabrication of deep microtrenches with inclined parts by laser-induced backside wet etching. , 2009, , .		0
26	Deep trenches fabricated by laser-induced backside wet etching for guiding light. Proceedings of SPIE, 2009, , .	0.8	0
27	Nano- and Microdot Array Formation of FeSi ₂ by Nanosecond Excimer Laser-Induced Forward Transfer. Applied Physics Express, 2008, 1, 057001.	2.4	43
28	Surface microstructures of silica glass by laser-induced backside wet etching. Proceedings of SPIE, 2008, , .	0.8	7
29	Synthesis and Photolysis of Biphenylenetetracarboxylic Dianhydride in Low-temperature Neon Matrixes. Chemistry Letters, 2008, 37, 334-335.	1.3	2
30	Surface Micro-Structuring of Silica Glass by Laser-induced Backside Wet Etching. The Review of Laser Engineering, 2008, 36, 1246-1249.	0.0	0
31	Microfluidic Bead Array Device Using Laser-Machined Surface Microstructures on Silica Glass. , 2007, , .		2
32	Laser-induced backside wet etching of silica glass with ns-pulsed DPSS UV laser at the repetition rate of 40 kHz. Journal of Physics: Conference Series, 2007, 59, 539-542.	0.4	10
33	Laser direct-write and crystallization of FeSi ₂ micro-dot array for NIR light-emitting device application. , 2007, , .		0
34	Laser-induced formation of photocatalytic TiO ₂ micro networks on a UV-absorbing glass surface. , 2007, , .		0
35	A deep micro-trench on silica glass fabricated by laser-induced backside wet etching (LIBWE). Journal of Physics: Conference Series, 2007, 59, 380-383.	0.4	17
36	Fabrication of a microfluidic bioarray device using laser-machined surface microstructures. , 2007, , .		5

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37	Surface microstructuring of silica glass by laser-induced backside wet etching with a DPSS UV laser. Applied Surface Science, 2007, 253, 8287-8291.	6.1	22
38	Fabrication of a Novel Microfluidic Device Incorporating 2-D Array of Microbeads. Chemistry Letters, 2006, 35, 218-219.	1.3	19
39	Laser ablation of toluene liquid for surface micro-structuring of silica glass. Applied Surface Science, 2006, 252, 4387-4391.	6.1	37
40	Rapid prototyping of silica glass microstructures by the LIBWE method: Fabrication of deep microtrenches. Journal of Photochemistry and Photobiology A: Chemistry, 2006, 182, 319-324.	3.9	22
41	Surface microfabrication of silica glass by LIBWE using DPSS-UV laser. , 2005, , .		0
42	Transient pressure induced by laser ablation of toluene, a highly laser-absorbing liquid. Applied Physics A: Materials Science and Processing, 2005, 80, 275-281.	2.3	57
43	Formation of a TiO ₂ Micronetwork on a UV-Absorbing SiO ₂ -Based Glass Surface by Excimer Laser Irradiation. Chemistry of Materials, 2005, 17, 6651-6655.	6.7	16
44	Etching a Micro-Trench with a Maximum Aspect Ratio of 60 on Silica Glass by Laser-Induced Backside Wet Etching (LIBWE). Japanese Journal of Applied Physics, 2005, 44, L176-L178.	1.5	38
45	Effect of Annealing on the Tolerance of LiCaAlF ₆ Single Crystals against F ₂ Laser Irradiation. Japanese Journal of Applied Physics, 2004, 43, 6168-6169.	1.5	0
46	Preferential Crystallization of $\hat{\Gamma}^2$ -FeSi ₂ from Micro-droplets Generated by Laser Ablation.. Materials Research Society Symposia Proceedings, 2004, 848, 245.	0.1	0
47	Transient pressure induced by laser ablation of liquid toluene: toward the understanding of laser-induced backside wet etching. Applied Physics A: Materials Science and Processing, 2004, 79, 883-885.	2.3	30
48	Imprinting by hot embossing in polymer substrates using a template of silica glass surface-structured by the ablation of LIBWE method. Applied Physics A: Materials Science and Processing, 2004, 79, 827-828.	2.3	24
49	Preparation of carbon nitride film by cryogenic laser processing. Applied Physics A: Materials Science and Processing, 2004, 79, 1477-1479.	2.3	13
50	Initial stage of laser ablation of LiCaAlF ₆ single crystal under F ₂ laser irradiation. Applied Physics A: Materials Science and Processing, 2004, 79, 1579-1581.	2.3	1
51	Micron- and submicron-sized surface patterning of silica glass by LIBWE method. Journal of Photochemistry and Photobiology A: Chemistry, 2004, 166, 129-133.	3.9	51
52	Generation and Photoreactions of 2,4,6-Trinitro-1,3,5-triazine, a Septet Trinitrene. Journal of the American Chemical Society, 2004, 126, 7846-7852.	13.7	51
53	Fabrication of Microarrays on Fused Silica Plates Using the Laser-Induced Backside Wet Etching Method. Langmuir, 2004, 20, 9769-9774.	3.5	32
54	<title>F<formula><inf><roman>2</roman></inf></formula>-laser-induced damage on transparent fluoride crystals</title>. , 2004, , .		0

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55	Surface microfabrication of fused silica glass by UV laser irradiation. , 2004, 5339, 112.		9
56	<title>Surface micro-structuring of silica glass by laser-induced backside wet etching using ns-pulsed UV lasers: application into micropatterning of functional materials using self-assembled monolayers</title>. , 2004, , .		1
57	<title>Room-temperature fabrication of \hat{I}^2 -FeSi<formula><inf><roman>2</roman></inf></formula> microprecipitates by pulsed laser deposition</title>. , 2004, 5662, 400.		0
58	Dicyanocarbodiimide and Trinitreno-s-triazine Generated by Consecutive Photolysis of Triazido-s-triazine in a Low-Temperature Nitrogen Matrix. Angewandte Chemie - International Edition, 2003, 42, 5206-5209.	13.8	30
59	Plume dynamics of iron disilicide studied by time-of-flight mass spectroscopy. Applied Surface Science, 2003, 208-209, 52-56.	6.1	8
60	Surface micro-fabrication of silica glass by excimer laser irradiation of organic solvent. Journal of Photochemistry and Photobiology A: Chemistry, 2003, 158, 179-182.	3.9	79
61	Effect of VUV F 2 laser irradiation on fluoride crystal. , 2003, , .		2
62	Surface microstructuring of transparent materials by laser-induced backside wet etching using excimer laser. , 2003, , .		2
63	Site-selective dye deposition on microstructures of fused silica fabricated using the LIBWE method. Chemical Communications, 2003, , 2168.	4.1	21
64	Laser ablation plume of FeSi 2 alloy target studied by TOF mass and optical emission spectroscopies. , 2003, , .		0
65	Room-temperature preparation of \hat{I}^2 -FeSi ₂ microprecipitates by the KrF excimer laser ablation of an iron disilicide alloy target. Applied Physics Letters, 2003, 83, 3078-3080.	3.3	12
66	Laser-Induced Backside Wet Etching of Sapphire. Japanese Journal of Applied Physics, 2003, 42, L176-L178.	1.5	44
67	Resistance of LiCaAlF ₆ Single Crystals against F ₂ Laser Irradiation. Japanese Journal of Applied Physics, 2003, 42, L1015-L1017.	1.5	2
68	Site-selective dye deposition onto micropatterns of fused silica fabricated with laser-induced backside wet etching (LIBWE). , 2003, , .		0
69	Fabrication of 1 \hat{I} ¼m patterns on fused silica plates by laser-induced backside wet etching (LIBWE). , 2003, , .		7
70	Surface microfabrication of silica glass by excimer laser irradiation of toluene solution. , 2003, 4977, 269.		5
71	Time-resolved monitoring of ZnO plume by ArF laser ablation: influence of surrounding gas. , 2003, 4830, 132.		0
72	Microfabrication of Transparent Materials by Laser Processing. , 2003, , 339-357.		0

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73	Improvement in Electrical Conductivity of Indium Tin Oxide Films Prepared via Pulsed Laser Deposition on Electric-Field-Applied Substrates. Japanese Journal of Applied Physics, 2002, 41, 3760-3761.	1.5	3
74	Laser ablation of nitrogen-solid films by UV ps-laser irradiation: surface modification of materials by fragments in laser ablation plume. , 2002, , .		0
75	Onset of laser ablation in CaF ₂ crystal under excimer laser irradiation. , 2002, 4637, 13.		1
76	Laser-induced high-quality etching of fused silica using a novel aqueous medium. Applied Physics A: Materials Science and Processing, 2002, 75, 641-645.	2.3	56
77	Laser-induced back-side wet etching of fused silica with an aqueous solution containing organic molecules. Applied Physics A: Materials Science and Processing, 2002, 75, 437-440.	2.3	40
78	The onset of optical breakdown in KrF-laser-irradiated silica glass surfaces. Applied Surface Science, 2002, 197-198, 50-55.	6.1	3
79	Pulsed laser deposition of semiconductor-ITO composite films on electric-field-applied substrates. Applied Surface Science, 2002, 197-198, 438-441.	6.1	12
80	Plume dynamics in ZnO under ArF laser radiation. Applied Surface Science, 2002, 197-198, 268-272.	6.1	5
81	Microetching of fused silica by laser ablation of organic solution with XeCl excimer laser. Applied Surface Science, 2002, 186, 552-555.	6.1	47
82	Laser ablation and photo-dissociation of solid-nitrogen film by UV ps-laser irradiation. Applied Surface Science, 2002, 197-198, 67-71.	6.1	8
83	<title>Plume formation and optical breakdown on KrF excimer laser-irradiated silica glass</title>. , 2001, , .		1
84	Interaction of wide band gap single crystals with 248 nm excimer laser irradiation. VII. Localized plasma formation on NaCl single crystal surfaces. Journal of Applied Physics, 2001, 89, 2370-2378.	2.5	17
85	<title>Onset of laser plume formation at 248 nm on cleaved-single crystal NaCl: evidence for highly localized emissions</title>. , 2000, 3935, 38.		2
86	Luminescence spectra at bending fracture of single crystal MgO. Solid State Communications, 2000, 117, 17-20.	1.9	46
87	Consequences of combining laser irradiation with other stimuli on laser desorption and ablation from wide bandgap insulators. Applied Surface Science, 2000, 154-155, 291-304.	6.1	7
88	<title>Laser ablation process of quartz material using F₂ laser</title>. , 2000, , .		3
89	Characteristics of Excimer-Laser-Induced Luminescence of the Ground Surface of Silica Glass. Japanese Journal of Applied Physics, 2000, 39, 180-185.	1.5	3
90	Interaction of wide band gap single crystals with 248 nm excimer laser irradiation. VI. The influence of thermal pretreatment on laser desorption of positive ions from a water-containing ionic crystal (CaHPO ₄ ·2H ₂ O). Journal of Applied Physics, 2000, 88, 647-656.	2.5	2

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91	Investigations of laser desorption from modified surfaces of ionic single crystals. , 2000, , .		0
92	Laser-induced positive ion and neutral atom/molecule emission from single-crystal CaHPO ₄ · 2 H ₂ O: The role of electron-beam-induced defects. Applied Physics A: Materials Science and Processing, 1999, 69, S547-S552.	2.3	6
93	Effect of heat treatment on UV-laser-induced positive ion desorption in CaHPO ₄ · 2 H ₂ O. Applied Physics A: Materials Science and Processing, 1999, 69, S621-S624.	2.3	2
94	Fractoluminescence in minerals. Radiation Effects and Defects in Solids, 1999, 149, 131-135.	1.2	5
95	Charged Particle Emission and Luminescence upon Bending Fracture of Granite. Japanese Journal of Applied Physics, 1998, 37, 3495-3499.	1.5	25
96	Fractoluminescence Spectra in Crystalline Quartz. Japanese Journal of Applied Physics, 1998, 37, 1892-1896.	1.5	46
97	Failure and relaxations of carbon fibre-reinforced plastic tested by exoemission and luminescence methods. International Journal of Adhesion and Adhesives, 1997, 17, 75-78.	2.9	4
98	OH-content dependence of fractoluminescence spectra in silica glass. Physical Review B, 1996, 54, 9721-9725.	3.2	30
99	Characteristics of Fe^{3+} -induced absorption bands in oxygen deficient silica. Journal of Applied Physics, 1996, 80, 5633-5638.	2.5	19
100	Time-resolved fractoluminescence spectra of silica glass in a vacuum and nitrogen atmosphere. Physical Review B, 1995, 52, 9224-9228.	3.2	82
101	Temperature dependence of resonant secondary emission in NaNO ₂ : Spectral behavior. Solid State Communications, 1990, 74, 419-423.	1.9	5
102	Phonon Sidebands of $\frac{1}{2}00$ Line in Absorption and Luminescence Spectra of NaNO ₂ : Spatial Dispersion of $\frac{1}{2}00$ Exciton. Journal of the Physical Society of Japan, 1989, 58, 4620-4625.	1.6	15
103	Reflection Spectra of Vibronic Excitons in NaNO ₂ . Journal of the Physical Society of Japan, 1988, 57, 3613-3620.	1.6	3
104	Spectral and temporal behavior of resonant secondary emission in NaNO ₂ . Journal of Luminescence, 1987, 38, 225-229.	3.1	3