

# Yasuhiro Okamoto

## List of Publications by Year in descending order

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all docs

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docs citations

90  
times ranked

613  
citing authors

#	ARTICLE	IF	CITATIONS
1	Internal modification of glass by ultrashort laser pulse and its application to microwelding. Applied Physics A: Materials Science and Processing, 2014, 114, 187-208.	2.3	62
2	High surface quality welding of aluminum using adjustable ring-mode fiber laser. Journal of Materials Processing Technology, 2018, 258, 180-188.	6.3	56
3	Improvement in Surface Characteristics by EDM with Chromium Powder Mixed Fluid. Procedia CIRP, 2016, 42, 231-235.	1.9	55
4	Improvement of surface characteristics for long life of metal molds by large-area EB irradiation. Journal of Materials Processing Technology, 2014, 214, 1740-1748.	6.3	47
5	Surface modification of cemented carbide by EB polishing. CIRP Annals - Manufacturing Technology, 2011, 60, 575-578.	3.6	44
6	Novel fusion welding technology of glass using ultrashort pulse lasers. Physics Procedia, 2010, 5, 483-493.	1.2	43
7	Characteristics of laser absorption and welding in FOTURAN glass by ultrashort laser pulses. Optics Express, 2011, 19, 22961.	3.4	42
8	Wire breakage and deflection caused by nozzle jet flushing in wire EDM. CIRP Annals - Manufacturing Technology, 2015, 64, 233-236.	3.6	41
9	Mechanism of dynamic plasma motion in internal modification of glass by fs-laser pulses at high pulse repetition rate. Optics Express, 2016, 24, 25718.	3.4	32
10	Evaluation of Molten Zone in Micro-welding of Glass by Picosecond Pulsed Laser. Journal of Laser Micro Nanoengineering, 2013, 8, 65-69.	0.1	26
11	Neural Network Modeling for Prediction of Weld Bead Geometry in Laser Microwelding. Advances in Optical Technologies, 2013, 2013, 1-7.	0.8	24
12	Cutting of Solid Type Molded Composite Materials by Q-switched Fiber Laser with High-Performance Nozzle. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 651-660.	0.7	22
13	Influence of Surface State in Micro-Welding of Copper by Nd:YAG Laser. Applied Sciences (Switzerland), 2018, 8, 2364.	2.5	22
14	High efficiency fine boring of monocrystalline silicon ingot by electrical discharge machining. Precision Engineering, 1999, 23, 126-133.	3.4	21
15	Direct micro-joining of flexible printed circuit and metal electrode by pulsed Nd:YAG laser. International Journal of Precision Engineering and Manufacturing, 2012, 13, 321-329.	2.2	20
16	Fundamental Study on Multi-wire EDM Slicing of SiC by Wire Electrode with Track-shaped Section. Procedia CIRP, 2013, 6, 232-237.	1.9	20
17	Effects of superposition of 532 nm and 1064 nm wavelengths in copper micro-welding by pulsed Nd:YAG laser. Journal of Materials Processing Technology, 2022, 299, 117388.	6.3	20
18	High speed, high strength microwelding of Si/glass using ps-laser pulses. Optics Express, 2015, 23, 3427.	3.4	17

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19	Optimization of Nozzle Flushing Method for Smooth Debris Exclusion in Wire EDM. Key Engineering Materials, 0, 516, 73-78.	0.4	15
20	Fundamental Study on Micro-deburring by Large-area EB Irradiation. Procedia CIRP, 2013, 5, 19-24.	1.9	15
21	Challenge to Development of Functional Multi-Wire EDM Slicing Method Using Wire Electrode with Track-Shaped Section. Key Engineering Materials, 0, 523-524, 287-292.	0.4	12
22	Formation of Periodic Nanostructures with Femtosecond Laser for Creation of New Functional Biomaterials. Procedia CIRP, 2016, 42, 57-61.	1.9	12
23	High surface quality micro machining of monocrystalline diamond by picosecond pulsed laser. CIRP Annals - Manufacturing Technology, 2019, 68, 197-200.	3.6	12
24	Fine Micro-welding of Thin Stainless Steel Sheet by High Speed Laser Scanning. Journal of Laser Micro Nanoengineering, 2008, 3, 95-99.	0.1	12
25	Influence of Jet Flushing on Corner Shape Accuracy in Wire EDM. Procedia CIRP, 2018, 68, 104-108.	1.9	11
26	High Performance Slicing Method of Monocrystalline Silicon Ingot by Wire EDM. , 2002, , 219-223.		10
27	Influence of Weld Bead Geometry on Thermal Deformation in Laser Micro-Welding. Procedia CIRP, 2013, 6, 492-497.	1.9	10
28	High-speed Observation of Thin Wire Movement in Fine Wire EDM. Procedia CIRP, 2016, 42, 596-600.	1.9	10
29	Study on Precision Laser Forming of Plastic with YAG Laser.. Journal of the Japan Society for Precision Engineering, 2000, 66, 891-895.	0.1	10
30	Investigation on Welding Phenomenon for Aluminum Alloy by Superposition of Pulsed YAG Laser and Diode Laser. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 875-882.	0.7	9
31	Welding characteristics of aluminum alloy by pulsed Nd:YAG laser with pre-and post-irradiation of superposed continuous diode laser. , 2011, , .		9
32	Micro-Welding of Copper Plate by Frequency Doubled Diode Pumped Pulsed Nd:YAG Laser. Physics Procedia, 2012, 39, 577-584.	1.2	8
33	Velocity and Angle of Spatter in Fine Laser Processing. Physics Procedia, 2012, 39, 792-799.	1.2	8
34	Fundamental study on releasability of molded rubber from mold tool surface. International Journal of Advanced Manufacturing Technology, 2014, 70, 1515-1521.	3.0	8
35	Novel fusion welding technology of glass using ultrashort pulse lasers. , 2008, , .		7
36	Influence of Nozzle Jet Flushing on Wire Breakage in 1st-Cut Wire EDM from Start Hole. Key Engineering Materials, 0, 749, 130-135.	0.4	7

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37	Micro-Machining Characteristics of Ceramics by Harmonics of Nd:YAG laser. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2008, 2, 661-667.	0.7	6
38	INVESTIGATION OF WIRE MOVEMENT IN FINE WIRE EDM BY HIGH-SPEED OBSERVATION. International Journal of Electrical Machining, 2013, 18, 43-48.	0.5	6
39	Control of Kerf Width in Multi-wire EDM Slicing of Semiconductors with Circular Section. Procedia CIRP, 2018, 68, 100-103.	1.9	6
40	Fundamental study on reduction of dross in fiber laser cutting of steel by shifting nozzle axis. Journal of Laser Applications, 2021, 33, .	1.7	6
41	Laser Butt Welding of Thin Ti6Al4V Sheets: Effects of Welding Parameters. Journal of Composites Science, 2021, 5, 246.	3.0	6
42	Fine micro-welding of thin metal sheet by high speed laser scanning. Proceedings of SPIE, 2007, , .	0.8	4
43	Observation of Plasma Behavior in Micro-machining of Ceramics by Harmonics of Nd:YAG Laser. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2010, 4, 867-874.	0.7	4
44	Effects of Focusing Condition on Micro-Welding Characteristics of Borosilicate Glass by Picosecond Pulsed Laser. Key Engineering Materials, 0, 656-657, 461-467.	0.4	4
45	Effect of surrounding gas condition on surface integrity in micro-drilling of SiC by ns pulsed laser. Applied Physics B: Lasers and Optics, 2015, 119, 509-517.	2.2	4
46	Influence of Numerical Aperture on Molten Area Formation in Fusion Micro-Welding of Glass by Picosecond Pulsed Laser. Applied Sciences (Switzerland), 2019, 9, 1412.	2.5	4
47	Investigation on reduction of dross height by analyzing beam intensity distribution in fiber laser cutting. Journal of Laser Applications, 2021, 33, .	1.7	4
48	Effect of Nozzle Shape on Micro-Cutting Performance of Thin Metal Sheet by Pulsed Nd: YAG Laser. International Journal of Automation Technology, 2010, 4, 510-517.	1.0	4
49	Effects of Superposed Continuous Diode Laser on Welding Characteristics for Aluminum Alloy in Pulsed Nd:YAG Laser Welding. Journal of Laser Micro Nanoengineering, 2011, 6, 225-230.	0.1	4
50	Investigation of Shielding Gas Supplying Method in Vertical-position Laser Welding of Pure Titanium. Procedia CIRP, 2016, 42, 448-453.	1.9	3
51	Effect of numerical aperture on molten area characteristics in micro-joining of glass by picosecond pulsed laser. Welding in the World, Le Soudage Dans Le Monde, 2020, 64, 937-947.	2.5	3
52	Characteristics of Spatter in Micro-Drilling of Metal Sheet by Pulsed Nd:YAG Laser. International Journal of Automation Technology, 2016, 10, 874-881.	1.0	3
53	Fundamental Study on Electrical Discharge Machining of Single Crystalline Silicon.. Journal of the Japan Society for Precision Engineering, 1997, 63, 1459-1463.	0.1	3
54	Study on Laser Forming of Plastic by YAG Laser. Effect of Specimen Thickness on Deformation Characteristics.. Journal of the Japan Society for Precision Engineering, 2002, 68, 466-471.	0.1	3

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55	Precision Removal of ITO Film by LD-pumped SHG YAG Laser.. Journal of the Japan Society for Precision Engineering, 2002, 68, 1564-1569.	0.1	3
56	Effects of Nozzle Shape on Precision Micro Cutting of Thin Metal Plate by Pulsed YAG Laser. Journal of the Japan Society for Precision Engineering Contributed Papers, 2004, 70, 246-250.	0.0	3
57	Study on Supplying Method of Assist Gas in Precision Cutting with Pulsed YAG Laser.. Journal of the Japan Society for Precision Engineering, 1999, 65, 1471-1475.	0.1	3
58	Precision micro cutting of thin steel plate with newly designed laval nozzle by pulsed YAG laser. , 2004, , .		2
59	<title>Deformation characteristics of plastics in YAG laser forming</title>. , 2004, , .		2
60	High Efficiency and High Quality Welding of Aluminum Alloy by Hybrid System Combined Nd:YAG Laser and Diode Laser. Journal of the Japan Society for Precision Engineering, 2009, 75, 1222-1226.	0.1	2
61	The Boundary of Key-hole Generation in Micro-welding of Aluminum Alloy by Pulsed Nd:YAG Laser with Superposition of Continuous Diode Laser. Journal of the Japan Society for Precision Engineering, 2014, 80, 419-424.	0.1	2
62	Effects of pulse duration on removal characteristics of silver nanowire transparent conductive film by nanosecond pulsed laser. Journal of Materials Processing Technology, 2017, 240, 255-261.	6.3	2
63	Micro Cutting of Thin Copper Plate by Fiber Laser with Laval Nozzle. Journal of Laser Micro Nanoengineering, 2006, 1, 243-246.	0.1	2
64	Thermo-Mechanical Analysis on Thermal Deformation of Thin Stainless Steel in Laser Micro-Welding. International Journal of Manufacturing, Materials, and Mechanical Engineering, 2016, 6, 51-66.	0.4	2
65	Formation of Internal Modified Line with High Aspect Ratio in Sapphire by Sub-nanosecond Pulsed Fiber Laser. Journal of Laser Micro Nanoengineering, 2014, 9, 52-58.	0.1	2
66	High-quality micro-shape fabrication of monocrystalline diamond by nanosecond pulsed laser and acid cleaning. International Journal of Extreme Manufacturing, 2022, 4, 025301.	12.7	2
67	<title>Effect of nozzle shape on surface integrity in microcutting with pulsed YAG laser</title>. , 2000, , .		1
68	Micro machining of ITO film by LD-pumped SGH YAG laser. , 2003, , .		1
69	Investigation of Surface Treatment Method by High-Speed Scanning of Single-Mode Fiber Laser with MOPA. Key Engineering Materials, 0, 407-408, 624-627.	0.4	1
70	Investigation on Micro-Machining Characteristics and Phenomenon of Semiconductor Materials by Harmonics of Nd:YAG Laser. Key Engineering Materials, 2012, 516, 36-41.	0.4	1
71	Novel Micro-Welding of Silicon and Glass by Ultrashort Pulsed Laser. Materials Science Forum, 0, 783-786, 2792-2797.	0.3	1
72	Study on Applicability of Large-Area EB Irradiation to Micro-Deburring. Key Engineering Materials, 0, 656-657, 369-374.	0.4	1

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73	Study on Surface Characteristics of EDMed Surface with Nickel Powder Mixed Fluid. Key Engineering Materials, 0, 656-657, 375-380.	0.4	1
74	Laser Metal Deposition of Titanium Alloy (Ti6Al4V): A Review. , 2019, , .		1
75	E17 Evaluation of Molten Zone in Glass Welding Using Ultra-short Pulsed Laser(Laser processing). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 569-572.	0.0	1
76	Investigation on Surface Smoothing of Mold Material by Pulsed Laser Irradiation of 532 nm. Procedia CIRP, 2020, 95, 879-884.	1.9	1
77	Clarification of Temperature Distribution for Metals with Different Thermal Conductivity in Large-area Electron Beam Irradiation. Procedia CIRP, 2020, 95, 960-965.	1.9	1
78	Laser Forming of Plastic by YAG Laser. Journal of High Temperature Society, 2004, 30, 47-54.	0.1	0
79	Novel fusion welding technology of Si/glass using ultrashort laser pulses with high pulse repetition rates. , 2012, , .		0
80	Effect of Laser Beam Intensity Distribution in Removal Processing of ZnO Film by Nano-second Pulsed Laser with Square Section Fiber. Journal of the Japan Society for Precision Engineering, 2015, 81, 1033-1038.	0.1	0
81	Effect of Tilting Jet Flushing Nozzle on Wire EDM Performance. International Journal of Electrical Machining, 2015, 20, 3-8.	0.5	0
82	Influence of Pulse duration on Processing Characteristics of Transparent Conductive Film Containing Silver Nanowires by ns Pulsed Fiber Laser. Procedia CIRP, 2016, 42, 62-66.	1.9	0
83	Effects of polarization direction on removal characteristics of silver nanowire transparent conductive film by ultrashort pulsed laser. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0100-JAMDSM0100.	0.7	0
84	Wear Resistance Behaviour of Laser Additive Manufacture Materials: An Overview. , 2019, , .		0
85	Influence of Free-Electron Density Distribution on Mechanical Strength in Micro-Welding of Glass by Picosecond Pulsed Laser. Journal of Smart Processing, 2021, 10, 294-300.	0.1	0
86	E21 Observation of Plasma Behavior in Micro-machining of Ceramics by Harmonics of Nd:YAG laser(Laser processing). Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2009, 2009.5, 585-588.	0.0	0
87	High Efficiency Penetration Boring of Single Crystalline Silicon Ingot by EDM.. Journal of the Japan Society for Precision Engineering, 1997, 63, 1725-1729.	0.1	0
88	A New Micro EDM Technique for Fine Complicated Hole with Triangular Section Electrode.. Journal of the Japan Society for Precision Engineering, 1999, 65, 155-159.	0.1	0
89	Multi-slicing of Semiconductors by Wire Electrical Discharge Machining Technology. Journal of the Japan Society for Precision Engineering, 2017, 83, 825-828.	0.1	0