

Yasuhiro Okamoto

List of Publications by Year in descending order

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613
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| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | 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 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | Laser Butt Welding of Thin Ti6Al4V Sheets: Effects of Welding Parameters. Journal of Composites Science, 2021, 5, 246. | 3.0 | 6 |
| 6 | Investigation on reduction of dross height by analyzing beam intensity distribution in fiber laser cutting. Journal of Laser Applications, 2021, 33, . | 1.7 | 4 |
| 7 | 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 |
| 8 | Investigation on Surface Smoothing of Mold Material by Pulsed Laser Irradiation of 532 nm. Procedia CIRP, 2020, 95, 879-884. | 1.9 | 1 |
| 9 | 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 |
| 10 | Wear Resistance Behaviour of Laser Additive Manufacture Materials: An Overview. , 2019, , . | | 0 |
| 11 | High surface quality micro machining of monocrystalline diamond by picosecond pulsed laser. CIRP Annals - Manufacturing Technology, 2019, 68, 197-200. | 3.6 | 12 |
| 12 | 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 |
| 13 | Laser Metal Deposition of Titanium Alloy (Ti6Al4V): A Review. , 2019, , . | | 1 |
| 14 | High surface quality welding of aluminum using adjustable ring-mode fiber laser. Journal of Materials Processing Technology, 2018, 258, 180-188. | 6.3 | 56 |
| 15 | Control of Kerf Width in Multi-wire EDM Slicing of Semiconductors with Circular Section. Procedia CIRP, 2018, 68, 100-103. | 1.9 | 6 |
| 16 | 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 |
| 17 | Influence of Surface State in Micro-Welding of Copper by Nd:YAG Laser. Applied Sciences (Switzerland), 2018, 8, 2364. | 2.5 | 22 |
| 18 | Influence of Jet Flushing on Corner Shape Accuracy in Wire EDM. Procedia CIRP, 2018, 68, 104-108. | 1.9 | 11 |

| # | ARTICLE | IF | CITATIONS |
|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Effects of pulse duration on removal characteristics of silver nanowire transparent conductive film by nanosecond pulsed laser. <i>Journal of Materials Processing Technology</i> , 2017, 240, 255-261. | 6.3 | 2 |
| 20 | Multi-slicing of Semiconductors by Wire Electrical Discharge Machining Technology. <i>Journal of the Japan Society for Precision Engineering</i> , 2017, 83, 825-828. | 0.1 | 0 |
| 21 | Mechanism of dynamic plasma motion in internal modification of glass by fs-laser pulses at high pulse repetition rate. <i>Optics Express</i> , 2016, 24, 25718. | 3.4 | 32 |
| 22 | Investigation of Shielding Gas Supplying Method in Vertical-position Laser Welding of Pure Titanium. <i>Procedia CIRP</i> , 2016, 42, 448-453. | 1.9 | 3 |
| 23 | Formation of Periodic Nanostructures with Femtosecond Laser for Creation of New Functional Biomaterials. <i>Procedia CIRP</i> , 2016, 42, 57-61. | 1.9 | 12 |
| 24 | Influence of Pulse duration on Processing Characteristics of Transparent Conductive Film Containing Silver Nanowires by ns Pulsed Fiber Laser. <i>Procedia CIRP</i> , 2016, 42, 62-66. | 1.9 | 0 |
| 25 | High-speed Observation of Thin Wire Movement in Fine Wire EDM. <i>Procedia CIRP</i> , 2016, 42, 596-600. | 1.9 | 10 |
| 26 | Improvement in Surface Characteristics by EDM with Chromium Powder Mixed Fluid. <i>Procedia CIRP</i> , 2016, 42, 231-235. | 1.9 | 55 |
| 27 | Characteristics of Spatter in Micro-Drilling of Metal Sheet by Pulsed Nd:YAG Laser. <i>International Journal of Automation Technology</i> , 2016, 10, 874-881. | 1.0 | 3 |
| 28 | Thermo-Mechanical Analysis on Thermal Deformation of Thin Stainless Steel in Laser Micro-Welding. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2016, 6, 51-66. | 0.4 | 2 |
| 29 | Effect of Laser Beam Intensity Distribution in Removal Processing of ZnO Film by Nano-second Pulsed Laser with Square Section Fiber. <i>Journal of the Japan Society for Precision Engineering</i> , 2015, 81, 1033-1038. | 0.1 | 0 |
| 30 | Effect of Tilting Jet Flushing Nozzle on Wire EDM Performance. <i>International Journal of Electrical Machining</i> , 2015, 20, 3-8. | 0.5 | 0 |
| 31 | Wire breakage and deflection caused by nozzle jet flushing in wire EDM. <i>CIRP Annals - Manufacturing Technology</i> , 2015, 64, 233-236. | 3.6 | 41 |
| 32 | Effect of surrounding gas condition on surface integrity in micro-drilling of SiC by ns pulsed laser. <i>Applied Physics B: Lasers and Optics</i> , 2015, 119, 509-517. | 2.2 | 4 |
| 33 | High speed, high strength microwelding of Si/glass using ps-laser pulses. <i>Optics Express</i> , 2015, 23, 3427. | 3.4 | 17 |
| 34 | The Boundary of Key-hole Generation in Micro-welding of Aluminum Alloy by Pulsed Nd:YAG Laser with Superposition of Continuous Diode Laser. <i>Journal of the Japan Society for Precision Engineering</i> , 2014, 80, 419-424. | 0.1 | 2 |
| 35 | Internal modification of glass by ultrashort laser pulse and its application to microwelding. <i>Applied Physics A: Materials Science and Processing</i> , 2014, 114, 187-208. | 2.3 | 62 |
| 36 | Fundamental study on releasability of molded rubber from mold tool surface. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 70, 1515-1521. | 3.0 | 8 |

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| 37 | 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 |
| 38 | 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 |
| 39 | Influence of Weld Bead Geometry on Thermal Deformation in Laser Micro-Welding. Procedia CIRP, 2013, 6, 492-497. | 1.9 | 10 |
| 40 | Fundamental Study on Micro-deburring by Large-area EB Irradiation. Procedia CIRP, 2013, 5, 19-24. | 1.9 | 15 |
| 41 | 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 |
| 42 | INVESTIGATION OF WIRE MOVEMENT IN FINE WIRE EDM BY HIGH-SPEED OBSERVATION. International Journal of Electrical Machining, 2013, 18, 43-48. | 0.5 | 6 |
| 43 | Neural Network Modeling for Prediction of Weld Bead Geometry in Laser Microwelding. Advances in Optical Technologies, 2013, 2013, 1-7. | 0.8 | 24 |
| 44 | 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 |
| 45 | 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 |
| 46 | Micro-Welding of Copper Plate by Frequency Doubled Diode Pumped Pulsed Nd:YAG Laser. Physics Procedia, 2012, 39, 577-584. | 1.2 | 8 |
| 47 | Velocity and Angle of Spatter in Fine Laser Processing. Physics Procedia, 2012, 39, 792-799. | 1.2 | 8 |
| 48 | Novel fusion welding technology of Si/glass using ultrashort laser pulses with high pulse repetition rates. , 2012, , . | | 0 |
| 49 | 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 |
| 50 | Characteristics of laser absorption and welding in FOTURAN glass by ultrashort laser pulses. Optics Express, 2011, 19, 22961. | 3.4 | 42 |
| 51 | Welding characteristics of aluminum alloy by pulsed Nd:YAG laser with pre-and post-irradiation of superposed continuous diode laser. , 2011, , . | | 9 |
| 52 | Surface modification of cemented carbide by EB polishing. CIRP Annals - Manufacturing Technology, 2011, 60, 575-578. | 3.6 | 44 |
| 53 | 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 |
| 54 | 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 |

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| 55 | 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 |
| 56 | Novel fusion welding technology of glass using ultrashort pulse lasers. Physics Procedia, 2010, 5, 483-493. | 1.2 | 43 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | Novel fusion welding technology of glass using ultrashort pulse lasers. , 2008, , . | | 7 |
| 64 | 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 |
| 65 | Fine micro-welding of thin metal sheet by high speed laser scanning. Proceedings of SPIE, 2007, , . | 0.8 | 4 |
| 66 | Micro Cutting of Thin Copper Plate by Fiber Laser with Laval Nozzle. Journal of Laser Micro Nanoengineering, 2006, 1, 243-246. | 0.1 | 2 |
| 67 | Precision micro cutting of thin steel plate with newly designed laval nozzle by pulsed YAG laser. , 2004, , . | | 2 |
| 68 | Laser Forming of Plastic by YAG Laser. Journal of High Temperature Society, 2004, 30, 47-54. | 0.1 | 0 |
| 69 | <title>Deformation characteristics of plastics in YAG laser forming</title>. , 2004, , . | | 2 |
| 70 | 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 |
| 71 | Micro machining of ITO film by LD-pumped SGH YAG laser. , 2003, , . | | 1 |
| 72 | High Performance Slicing Method of Monocrystalline Silicon Ingot by Wire EDM. , 2002, , 219-223. | | 10 |

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| 73 | 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 |
| 74 | 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 |
| 75 | <title>Effect of nozzle shape on surface integrity in microcutting with pulsed YAG laser</title>., 2000, , . | | 1 |
| 76 | 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 |
| 77 | High efficiency fine boring of monocrystalline silicon ingot by electrical discharge machining. Precision Engineering, 1999, 23, 126-133. | 3.4 | 21 |
| 78 | 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 |
| 79 | 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 |
| 80 | 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 |
| 81 | 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 |
| 82 | 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 |
| 83 | 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 |
| 84 | Optimization of Nozzle Flushing Method for Smooth Debris Exclusion in Wire EDM. Key Engineering Materials, 0, 516, 73-78. | 0.4 | 15 |
| 85 | Novel Micro-Welding of Silicon and Glass by Ultrashort Pulsed Laser. Materials Science Forum, 0, 783-786, 2792-2797. | 0.3 | 1 |
| 86 | 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 |
| 87 | Study on Applicability of Large-Area EB Irradiation to Micro-Deburring. Key Engineering Materials, 0, 656-657, 369-374. | 0.4 | 1 |
| 88 | Study on Surface Characteristics of EDMed Surface with Nickel Powder Mixed Fluid. Key Engineering Materials, 0, 656-657, 375-380. | 0.4 | 1 |
| 89 | 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 |