

Keita Shimada

List of Publications by Year in descending order

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papers

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949033

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67
docs citations

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times ranked

331
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser-induced nanopillar structures around particles. <i>Applied Surface Science</i> , 2022, 572, 151453.	3.1	6
2	Simulation and Experimental Study on Material Removal Mechanism and Removal Characters of Ultrasonic Machining. , 2022, , 269-279.		0
3	Evaluation of fracture properties of annealed Fe-Si-B-Cr amorphous alloys using micro-tensile tests and blanking machinability. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 848, 143483.	2.6	5
4	Effect of Ultrafine Bubbles on <i>Pseudomonas Aeruginosa</i> and <i>Staphylococcus Aureus</i> During Sterilization of Machining Fluid. <i>International Journal of Automation Technology</i> , 2021, 15, 99-108.	0.5	4
5	Crystallization behavior and machining properties of annealed Fe-Si-B-Cr amorphous alloys. <i>Journal of Materials Science</i> , 2021, 56, 16697-16711.	1.7	7
6	Picosecond laser-induced nanopillar coverage of entire mirror-polished surfaces of Ti6Al4V alloy. <i>Precision Engineering</i> , 2021, 72, 556-567.	1.8	5
7	Surface defect inhibition mechanisms of laser assisted microcutting on Ni-P amorphous alloy. <i>Journal of Manufacturing Processes</i> , 2020, 60, 644-653.	2.8	9
8	Effects of Topography and Modified Layer by Plasma-Shot Treatment on High-Speed Steel. <i>Nanomanufacturing and Metrology</i> , 2020, 3, 133-141.	1.5	9
9	Processing capabilities of micro ultrasonic machining for hard and brittle materials: SPH analysis and experimental verification. <i>Precision Engineering</i> , 2020, 63, 159-169.	1.8	17
10	Effects of Pulse Duration and Heat on Laser-Induced Periodic Surface Structures. <i>International Journal of Automation Technology</i> , 2020, 14, 552-559.	0.5	7
11	Porosity and Tensile Properties of Rhizoid Porous Structure Fabricated Using Selective Laser Melting. <i>International Journal of Automation Technology</i> , 2020, 14, 582-591.	0.5	8
12	Study on the Creation of Fine Periodic Structure on V-Shaped Groove with Short-Pulsed Laser. <i>International Journal of Automation Technology</i> , 2020, 14, 601-613.	0.5	8
13	Ultrasonic-Assisted Face Milling for Fabricating Hierarchical Microstructures. <i>International Journal of Automation Technology</i> , 2020, 14, 238-244.	0.5	2
14	Control of Laser-Induced Periodic Surface Structures Assisted by Mechanical Processing. , 2020, , .		0
15	Imparting Biocompatibility to Zirconia Implants with Nanosecond Pulsed Laser: Formation of Microgrooves and Investigation of Heat Effects. <i>Nippon Kinzoku Gakkaishi/Journal of the Japan Institute of Metals</i> , 2019, 83, 37-45.	0.2	1
16	Control of short-pulsed laser induced periodic surface structures with machining - Picosecond laser micro/nanotexturing with ultraprecision cutting. <i>Precision Engineering</i> , 2019, 55, 433-438.	1.8	13
17	Unidirectional Wetting Surfaces Fabricated by Ultrasonic-Assisted Cutting. <i>International Journal of Automation Technology</i> , 2019, 13, 191-198.	0.5	5
18	Micro-/Nano-texturing by Ultrasonic-Assisted Grinding. <i>Micro/Nano Technologies</i> , 2018, , 1-55.	0.1	0

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19	Smoothed particle hydrodynamics simulation and experimental study of ultrasonic machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1875-1884.	1.5	3
20	Tool wear mechanism and its relation to material removal in ultrasonic machining. Wear, 2018, 394-395, 96-108.	1.5	18
21	Effects of abrasive material and particle shape on machining performance in micro ultrasonic machining. Precision Engineering, 2018, 51, 373-387.	1.8	23
22	Micro-/Nano-texturing by Ultrasonic-Assisted Grinding. Micro/Nano Technologies, 2018, , 1-55.	0.1	2
23	Friction Reduction by Micro-Textured Surfaces in Lubrication. International Journal of Automation Technology, 2018, 12, 603-610.	0.5	5
24	Effect of Crystal Structure on Fabrication of Fine Periodic Surface Structures with Short Pulsed Laser. International Journal of Automation Technology, 2018, 12, 868-875.	0.5	9
25	Particles flow dynamics in dental PJD handpiece. The Proceedings of the Manufacturing & Machine Tool Conference, 2018, 2018.12, C23.	0.0	0
26	CFD Analysis of Friction-Reduction Effect of Micro-Textured Surfaces in Lubricant. International Journal of Automation Technology, 2018, 12, 206-214.	0.5	1
27	Defining the effects of cutting parameters on burr formation and minimization in ultra-precision grooving of amorphous alloy. Precision Engineering, 2017, 49, 115-121.	1.8	19
28	Recent advances in ultrasonic-assisted machining for the fabrication of micro/nano-textured surfaces. Frontiers of Mechanical Engineering, 2017, 12, 33-45.	2.5	43
29	Development of a novel 2D rotary ultrasonic texturing technique for fabricating tailored structures. International Journal of Advanced Manufacturing Technology, 2017, 89, 1161-1172.	1.5	16
30	Study on particle impact angle in powder jet machining (Dental treatment by hydroxyapatite film) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.1	1
31	Materials Removal Mechanisms in Fabrication of Microstructures by Using Ultraprecision Cutting. Journal of the Japan Society for Precision Engineering, 2017, 83, 687-693.	0.0	1
32	Effect of Three-Dimensional Ultrasonic Assistance on Milling Process. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2017, 2017.9, 112.	0.0	0
33	Material Removal Mechanism in Micro Ultrasonic Machining. Journal of the Japan Society for Precision Engineering, 2016, 82, 422-425.	0.0	0
34	Mechanism of Defect Generation in the TiC Layer and Si Layer by Electrical Discharge Coating. Procedia CIRP, 2016, 42, 221-225.	1.0	10
35	Analysis of machinable structures and their wettability of rotary ultrasonic texturing method. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 1187-1192.	1.9	13
36	Explication for Femtosecond-Laser-Induced Nanostructuring on Glass Surface. Journal of the Japan Society for Precision Engineering, 2016, 82, 443-447.	0.0	0

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37	Stochastic Simulation of Tape Grinding for Wafer-Like Workpiece. Materials Science Forum, 2016, 874, 91-96.	0.3	0
38	3D Topography Measurement of Laser-Processed Surfaces. The Proceedings of the 14th International Conference on Laser Micro- and Nanotechnology, 2016, 10, 639-646.	0.5	4
39	Fabrication and Control of Fine Periodic Surface Structures by Short Pulsed Laser. International Journal of Automation Technology, 2016, 10, 639-646.	0.5	4
40	Influence of Workpiece Materials on the Characteristics of the Layers by Electrical Discharge Coating. International Journal of Automation Technology, 2016, 10, 773-779.	0.5	2
41	Minimizing Burrs and Defects on Microstructures with Laser Assisted Micromachining Technology. International Journal of Automation Technology, 2016, 10, 891-898.	0.5	4
42	Fabrication of hydroxyapatite film by powder jet deposition. Transactions of the JSME (in Japanese), 2015, 81, 15-00189-15-00189.	0.1	1
43	Femtosecond-Laser-Induced Nanofabrication on Glass. Journal of the Japan Society for Precision Engineering, 2015, 81, 862-866.	0.0	0
44	High Functionalization of Dental Implant with Laser Fabrication. Journal of the Japan Society for Precision Engineering, 2015, 81, 1073-1077.	0.0	0
45	1205 Fabrication and control of fine periodic surface structures by short pulsed laser. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2015, 2015.8, _1205-1_-_1205-5_.	0.0	0
46	Fabrication of Precision Micrograting on Resin Substrate Utilizing Ultrasonic-Assisted Molding. International Journal of Automation Technology, 2015, 9, 43-50.	0.5	3
47	Fabrication of hybrid micro/nano-textured surfaces using rotary ultrasonic machining with one-point diamond tool. International Journal of Machine Tools and Manufacture, 2014, 86, 12-17.	6.2	78
48	Using Smoothed Particle Hydrodynamics to Examine Influence of Process Parameters on Ultrasonic Machining. International Journal of Automation Technology, 2014, 8, 855-863.	0.5	2
49	Statistical Approach for Calculating Ground Surface Roughness^ ^mdash;Basics and Applications. Journal of the Japan Society for Precision Engineering, 2014, 80, 807-810.	0.0	0
50	Ultrasonically-Assisted Electrolytic Internal Grinding System. Journal of the Japan Society for Precision Engineering, 2014, 80, 146-150.	0.0	1
51	Statistical Analysis for Evaluating Surface Roughness of Plane Honing. International Journal of Automation Technology, 2014, 8, 576-583.	0.5	4
52	Creation of Hydroxyapatite Film on Human Enamel Utilized Powder Jet Deposition. Nippon Kikai Gakkai Ronbunshu, C Hen/Transactions of the Japan Society of Mechanical Engineers, Part C, 2013, 79, 4634-4642.	0.2	4
53	B013 Surface Texturing and Wettability Evaluation of Zirconia Ceramics. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 208-213.	0.0	3
54	B014 Influence of Process Parameters on Ultrasonic Machining using Smoothed Particle Hydrodynamics. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 214-219.	0.0	1

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55	Material Removal During Ultrasonic Machining Using Smoothed Particle Hydrodynamics. International Journal of Automation Technology, 2013, 7, 614-620.	0.5	15
56	Fabrication of Microstructures on RB-SiC by Ultrasonic Cavitation Assisted Micro-Electrical Discharge Machining. International Journal of Automation Technology, 2013, 7, 621-629.	0.5	14
57	Development of an Ultrasonically-Assisted Electrolytic Grinding System. International Journal of Automation Technology, 2013, 7, 654-662.	0.5	5
58	Ultraprecision Glass Molding Press for Microgrooves with Different Pitch Sizes. International Journal of Automation Technology, 2013, 7, 678-685.	0.5	7
59	A016 Statistical Analysis of Plane Honing for Silicon Carbide Wafers. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2013, 2013.7, 71-74.	0.0	0
60	Characteristics of Thick Film Deposition in Powder Jet Machining. International Journal of Automation Technology, 2013, 7, 630-637.	0.5	3
61	Statistical Approach Optimizing Slant Feed Grinding. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2012, 6, 898-907.	0.3	9
62	Ultrasonic-Assisted Grinding of Ultra-High Purity SUS 316L. International Journal of Automation Technology, 2011, 5, 427-432.	0.5	5
63	3383 Statistical Approach Optimizing Slant Feed Grinding. Proceedings of International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2011, 2011.6, _3383-1_-_3383-6_.	0.0	0
64	Statistical Approach Calculating Ground Surface Roughness of Ultrasonic-Assisted Micro-Grinding. Advanced Materials Research, 0, 325, 600-605.	0.3	2
65	Surface Textures Fabrication on Zirconia Ceramics by 3D Ultrasonic Vibration Assisted Slant Feed Grinding. Advanced Materials Research, 0, 797, 326-331.	0.3	11
66	Smoothed Particle Hydrodynamics Simulations for Ultrasonic Machining of Different Workpiece Materials. Advanced Materials Research, 0, 1017, 758-763.	0.3	0