

Swee Hock Yeo

List of Publications by Year in descending order

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147
papers

3,316
citations

159358

30
h-index

189595

50
g-index

149
all docs

149
docs citations

149
times ranked

2155
citing authors

#	ARTICLE	IF	CITATIONS
1	MR damper and its application for semi-active control of vehicle suspension system. <i>Mechatronics</i> , 2002, 12, 963-973.	2.0	376
2	Electro-thermal modelling of anode and cathode in micro-EDM. <i>Journal Physics D: Applied Physics</i> , 2007, 40, 2513-2521.	1.3	156
3	Critical assessment and numerical comparison of electro-thermal models in EDM. <i>Journal of Materials Processing Technology</i> , 2008, 203, 241-251.	3.1	137
4	Surface modification of additive manufactured components by ultrasonic cavitation abrasive finishing. <i>Wear</i> , 2017, 378-379, 90-95.	1.5	111
5	A new tool wear compensation method based on real-time estimation of material removal volume in micro-EDM. <i>Journal of Materials Processing Technology</i> , 2010, 210, 2292-2303.	3.1	86
6	Effects of powder additives suspended in dielectric on crater characteristics for micro electrical discharge machining. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, N91-N98.	1.5	66
7	Effects of rotor electrode in the fabrication of high aspect ratio microstructures by localized electrochemical deposition. <i>Journal of Micromechanics and Microengineering</i> , 2001, 11, 435-442.	1.5	63
8	On the effects of ultrasonic vibrations on localized electrochemical deposition. <i>Journal of Micromechanics and Microengineering</i> , 2002, 12, 271-279.	1.5	59
9	Experimental investigation of creep and recovery behaviors of magnetorheological fluids. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2002, 333, 368-376.	2.6	59
10	Magnetic field assisted micro electro-discharge machining. <i>Journal of Micromechanics and Microengineering</i> , 2004, 14, 1526-1529.	1.5	59
11	Process Simulation and Residual Stress Estimation of Micro-Electrodischarge Machining Using Finite Element Method. <i>Japanese Journal of Applied Physics</i> , 2005, 44, 5254-5263.	0.8	59
12	Investigation of biodiesel dielectric in sustainable electrical discharge machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 2549-2556.	1.5	57
13	Processing of Zirconium-Based Bulk Metallic Glass (BMC) Using Micro Electrical Discharge Machining (Micro-EDM). <i>Materials and Manufacturing Processes</i> , 2009, 24, 1242-1248.	2.7	56
14	Effects of ultrasonic vibrations in micro electro-discharge machining of microholes. <i>Journal of Micromechanics and Microengineering</i> , 1999, 9, 345-352.	1.5	53
15	Experimental Evaluation of Super High-Speed Grinding of Advanced Ceramics. <i>International Journal of Advanced Manufacturing Technology</i> , 2001, 17, 87-92.	1.5	50
16	Rapid Biocompatible Micro Device Fabrication by Micro Electro-Discharge Machining. <i>Biomedical Microdevices</i> , 2004, 6, 41-45.	1.4	50
17	A New Pulse Discriminating System for Micro-EDM. <i>Materials and Manufacturing Processes</i> , 2009, 24, 1297-1305.	2.7	48
18	Nontraditional finishing processes for internal surfaces and passages: A review. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 2302-2316.	1.5	48

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19	Controlled hydrodynamic cavitation erosion with abrasive particles for internal surface modification of additive manufactured components. <i>Wear</i> , 2018, 414-415, 89-100.	1.5	47
20	State-of-the-art on vibratory finishing in the aviation industry: an industrial and academic perspective. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 85, 415-429.	1.5	46
21	Synergistic effects in hydrodynamic cavitation abrasive finishing for internal surface-finish enhancement of additive-manufactured components. <i>Additive Manufacturing</i> , 2020, 33, 101110.	1.7	45
22	Chip Formation in Machining Particle-Reinforced Metal Matrix Composites. <i>Materials and Manufacturing Processes</i> , 1998, 13, 85-100.	2.7	43
23	Effect of cutting fluid on the machinability of metal matrix composites. <i>Journal of Materials Processing Technology</i> , 1997, 67, 157-161.	3.1	42
24	Modelling of overlapping craters in micro-electrical discharge machining. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 205302.	1.3	42
25	Investigation of recast layers generated by a powder-mixed dielectric micro electrical discharge machining process. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2011, 225, 1051-1062.	1.5	41
26	Predictive modeling of material removal modes in micro ultrasonic machining. <i>International Journal of Machine Tools and Manufacture</i> , 2012, 62, 13-23.	6.2	41
27	A novel spark erosion technique for the fabrication of high aspect ratio micro-grooves. <i>Microsystem Technologies</i> , 2004, 10, 628-632.	1.2	38
28	Bubble dynamics and cavitation intensity in milli-scale channels under an ultrasonic horn. <i>Ultrasonics Sonochemistry</i> , 2019, 58, 104666.	3.8	35
29	Ultra-high-speed grinding spindle characteristics upon using oil/air mist lubrication. <i>International Journal of Machine Tools and Manufacture</i> , 2002, 42, 815-823.	6.2	34
30	Surface finishing on IN625 additively manufactured surfaces by combined ultrasonic cavitation and abrasion. <i>Additive Manufacturing</i> , 2020, 31, 100938.	1.7	33
31	Assessment of waste streams in electric-discharge machining for environmental impact analysis. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 1998, 212, 393-401.	1.5	32
32	Surface finishing of additively manufactured Inconel 625 complex internal channels: A case study using a multi-jet hydrodynamic approach. <i>Additive Manufacturing</i> , 2020, 36, 101428.	1.7	32
33	Modelling and analysis of generation mechanism of micro-surface topography during elliptical ultrasonic assisted grinding. <i>Journal of Materials Processing Technology</i> , 2020, 279, 116585.	3.1	31
34	Inclusion of environmental performance for decision making of welding processes. <i>Journal of Materials Processing Technology</i> , 1998, 82, 78-88.	3.1	30
35	GRINDING OF NICKEL-BASED SUPER-ALLOYS AND ADVANCED CERAMICS. <i>Materials and Manufacturing Processes</i> , 2001, 16, 195-207.	2.7	30
36	Analysis of decision-making methodologies for desirability score of conceptual design. <i>Journal of Engineering Design</i> , 2004, 15, 195-208.	1.1	30

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37	Surface roughness model for micro electrical discharge machining. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2009, 223, 279-287.	1.5	30
38	Process sequence optimization based on a new cost-tolerance model. Journal of Intelligent Manufacturing, 1998, 9, 29-37.	4.4	29
39	A cost-tolerance model for process sequence optimisation. International Journal of Advanced Manufacturing Technology, 1996, 12, 423-431.	1.5	28
40	Tool condition monitoring using reflectance of chip surface and neural network. Journal of Intelligent Manufacturing, 2000, 11, 507-514.	4.4	28
41	Coolant shoe development for high efficiency grinding. Journal of Materials Processing Technology, 2001, 114, 240-245.	3.1	28
42	Ultra-high-speed thermal behavior of a rolling element upon using oil-air mist lubrication. Journal of Materials Processing Technology, 2002, 127, 191-198.	3.1	28
43	Effects of ambient pressure and fluid temperature in ultrasonic cavitation machining. International Journal of Advanced Manufacturing Technology, 2018, 98, 2883-2894.	1.5	27
44	A Method for Green Process Planning in Electric Discharge Machining. International Journal of Advanced Manufacturing Technology, 1999, 15, 287-291.	1.5	26
45	Cost-tolerance relationships for non-traditional machining processes. International Journal of Advanced Manufacturing Technology, 1997, 13, 35-41.	1.5	24
46	A new technique using foil electrodes for the electro-discharge machining of micro grooves. Journal of Micromechanics and Microengineering, 2003, 13, N1-N5.	1.5	24
47	A multipass optimization strategy for CNC lathe operations. International Journal of Production Economics, 1995, 40, 209-218.	5.1	23
48	A Feasibility Study on the Micro Electro-Discharge Machining Process for Photomask Fabrication. International Journal of Advanced Manufacturing Technology, 2001, 18, 7-11.	1.5	23
49	Multiphase hydrodynamic flow finishing for surface integrity enhancement of additive manufactured internal channels. Journal of Materials Processing Technology, 2020, 283, 116692.	3.1	22
50	Single abrasive particle impingements as a benchmark to determine material removal modes in micro ultrasonic machining. Wear, 2012, 288, 1-8.	1.5	21
51	Ecological grinding with chilled air as coolant. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2003, 217, 409-419.	1.5	20
52	Assessment of the thermal effects on chip surfaces. Journal of Materials Processing Technology, 2000, 98, 317-321.	3.1	19
53	A novel approach to vibratory finishing: Double vibro-polishing. Materials and Manufacturing Processes, 2017, 32, 998-1003.	2.7	19
54	A computational fluid dynamics (CFD) model for effective coolant application in deep hole gun drilling. International Journal of Machine Tools and Manufacture, 2017, 113, 10-18.	6.2	19

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55	A novel hydrodynamic cavitation abrasive technique for internal surface finishing. Journal of Manufacturing Processes, 2019, 46, 44-58.	2.8	19
56	Effect of Cut-Off, Evaluation Length, and Measurement Area in Profile and Areal Surface Texture Characterization of As-Built Metal Additive Manufactured Components. Applied Sciences (Switzerland), 2021, 11, 5089.	1.3	19
57	A rule-based frame system for concurrent assembly machines. International Journal of Advanced Manufacturing Technology, 1996, 12, 370-376.	1.5	18
58	Analytical approximation of the erosion rate and electrode wear in micro electrical discharge machining. Journal of Micromechanics and Microengineering, 2008, 18, 085011.	1.5	18
59	Integrated knowledge-based machining system for rotational parts. International Journal of Production Research, 1991, 29, 1325-1337.	4.9	17
60	Numerical Orientation Workspace Analysis with Different Parameterization Methods. , 2006, , .		16
61	Modeling of Recast Layer in Micro-Electrical Discharge Machining. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	16
62	A new approach for force measurement and workpiece clamping in micro-ultrasonic machining. International Journal of Advanced Manufacturing Technology, 2011, 53, 517-522.	1.5	16
63	The effects of dub-off angle on chip evacuation in single-lip deep hole gun drilling. International Journal of Machine Tools and Manufacture, 2016, 108, 66-73.	6.2	16
64	Multi-jet hydrodynamic surface finishing and X-ray computed tomography (X-CT) inspection of laser powder bed fused Inconel 625 fuel injection/spray nozzles. Journal of Materials Processing Technology, 2021, 291, 117018.	3.1	16
65	Numerical modeling of residual stresses during vibratory peening of a 3-stage Blisk â€“ a multi-scale discrete element and finite element approach. Journal of Materials Processing Technology, 2022, 299, 117383.	3.1	15
66	Development of a Bio-Inspired Wrist Prosthesis. , 2006, , .		14
67	Ultrasonic deburring. International Journal of Advanced Manufacturing Technology, 1997, 13, 333-341.	1.5	13
68	Adaptive gait planning for multi-legged robots with an adjustment of center-of-gravity. Robotica, 1999, 17, 391-403.	1.3	13
69	Design and motion control of a cable-driven dexterous robotic arm. , 2010, , .		13
70	Material removal prediction for contact wheels based on a dynamic pressure sensor. International Journal of Advanced Manufacturing Technology, 2017, 93, 945-951.	1.5	13
71	Velocity estimation of micro-particles driven by cavitation bubble collapses through controlled erosion experiments. International Journal of Multiphase Flow, 2020, 127, 103271.	1.6	13
72	Knowledge-based systems in the machining domain. International Journal of Advanced Manufacturing Technology, 1991, 6, 35-44.	1.5	12

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73	Flexible tooling for localized electrochemical deposition with wire-electrodischarge grinding. <i>Microsystem Technologies</i> , 2004, 10, 127-136.	1.2	12
74	Instantaneous kinematics and singularity analysis of three-legged parallel manipulators. <i>Robotica</i> , 2004, 22, 189-203.	1.3	12
75	A generic tension-closure analysis method for fully-constrained cable-driven parallel manipulators. , 2009, , .		12
76	A low cost wearable wireless sensing system for upper limb home rehabilitation. , 2010, , .		12
77	Simulation of Surface Integrity for Nanopowder-Mixed Dielectric in Micro Electrical Discharge Machining. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2013, 44, 711-721.	1.0	12
78	Investigation of Cutting Temperature and Tool Wear in Diamond Cutting of Glasses. <i>Materials and Manufacturing Processes</i> , 1999, 14, 875-885.	2.7	11
79	Wear of CBN Tools in Ultra-Precision Machining of STAVAX. <i>Tribology Letters</i> , 2002, 12, 3-12.	1.2	11
80	An Adaptive Speed Control System for Micro Electro Discharge Machining. <i>AIP Conference Proceedings</i> , 2009, , .	0.3	11
81	Design and analysis of a cable-driven manipulator with variable stiffness. , 2013, , .		11
82	Pressure distribution of serrated contact wheelsâ€™ experimental and numerical analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 3407-3419.	1.5	11
83	Effects of high frequency vibratory finishing of aerospace components. <i>Journal of Mechanical Science and Technology</i> , 2019, 33, 1809-1815.	0.7	11
84	Rotary ultrasonic-assisted abrasive flow finishing and its fundamental performance in Al6061 machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 473-481.	1.5	11
85	Assessment of health hazards in production of printed paper packages. <i>International Journal of Advanced Manufacturing Technology</i> , 1998, 14, 376-384.	1.5	9
86	Surface bio-magnetism on bacterial cells adhesion and surface proteins secretion. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 40, 45-49.	2.5	9
87	Towards enhancement of machinability data by multiple regression. <i>Journal of Mechanical Working Technology</i> , 1989, 19, 85-99.	0.1	8
88	The effect of ultrasound in micro electro discharge machining on surface roughness. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2001, 215, 271-276.	1.5	7
89	Investigation of electrodischarge micromachining controllable factors on machined silicon surface quality. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2001, 215, 811-817.	1.5	7
90	Design and fabrication of a sonophoresis device with a flat flextensional transducer for transdermal drug delivery. <i>Sensors and Actuators A: Physical</i> , 2004, 115, 133-139.	2.0	7

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91	The development of a real-time wearable motion replication platform with spatial sensing and tactile feedback. , 2010, , .		7
92	Minimum surface roughness using rule-based modeling of the vibratory finishing process in a high-frequency bowl system. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 1415-1421.	1.5	7
93	A quick-stop device for orthogonal machining. Journal of Materials Processing Technology, 1992, 29, 41-46.	3.1	6
94	Enhancement of spatial resolution of microfabricated columns using localized electrochemical deposition. , 2001, , .		6
95	Tension optimization for cable-driven parallel manipulators using gradient projection. , 2011, , .		6
96	Development of an expert system for machinability data selection. Journal of Mechanical Working Technology, 1988, 17, 51-60.	0.1	5
97	Knowledge-based feature recognizer for machining. Computer Integrated Manufacturing Systems, 1994, 7, 29-37.	0.1	5
98	A novel approach in microfoil bending using an electrodischarge machine. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2004, 218, 1403-1407.	1.5	5
99	An interactive therapy system for arm and hand rehabilitation. , 2010, , .		5
100	Enhancement of Surface Quality and Study on Material Removal Mechanism in Micro Ultrasonic Machining. , 2011, , .		5
101	Microtexture Generation Using Controlled Chatter Machining in Ultraprecision Diamond Turning. Journal of Micro and Nano-Manufacturing, 2015, 3, .	0.8	5
102	Development of an integrated CAD/CAPP/CAM system for turning operations. Journal of Materials Processing Technology, 1992, 29, 103-117.	3.1	4
103	A tandem approach to selection of machinability data. International Journal of Advanced Manufacturing Technology, 1995, 10, 79-86.	1.5	4
104	Tool collision detection in machining using spatial representation technique. International Journal of Production Research, 1997, 35, 1789-1806.	4.9	4
105	Development of a Novel Sonophoresis Micro-device. Biomedical Microdevices, 2003, 5, 201-206.	1.4	4
106	Integration of Sensing and Feedback Components for Human Motion Replication. , 2010, , .		4
107	Critical wall thickness in electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2013, 64, 821-828.	1.5	4
108	Fabrication of 3D submicron to micro textured surfaces using backside patterned texturing (BPT). Precision Engineering, 2017, 47, 397-405.	1.8	4

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109	Kernel for Modular Robot Applications: Automatic Modeling Techniques. International Journal of Robotics Research, 1999, 18, 225-242.	5.8	4
110	Micromachining of assembled liquid crystal displays. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2001, 215, 1625-1631.	1.5	3
111	High-speed grinding using thin abrasive disks for microcomponents. Journal of Micromechanics and Microengineering, 2002, 12, N1-N5.	1.5	3
112	Adhesion of Pseudomonas fluorescens on magnetic surfaces. Colloids and Surfaces B: Biointerfaces, 2004, 36, 75-80.	2.5	3
113	Rigorous coupled wave analysis of front-end-of-line wafer alignment marks. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 186.	1.6	3
114	Toward a Dynamic Model of Robotic Marionettes. , 2008, , .		3
115	Depth and Horizontal Distance of Surface Roughness Improvement on Vertical Surface of 3D-Printed Material Using Ultrasonic Cavitation Machining Process with Abrasive Particles. Key Engineering Materials, 0, 748, 264-268.	0.4	3
116	Surface motion analysis of double vibro-polishing of Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2018, 97, 1113-1122.	1.5	3
117	Predictive Models of Double-Vibropolishing in Bowl System Using Artificial Intelligence Methods. Journal of Manufacturing and Materials Processing, 2019, 3, 27.	1.0	3
118	Random impact FEM simulation of irregularly-shaped media for parametric study of vibratory surface enhancement. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 0, , 095440542199012.	1.5	3
119	Multiphase hydrodynamic flow characterization for surface finishing the laser powder bed fused AlSi10Mg conformal cooling channels. Journal of Manufacturing Processes, 2021, 68, 277-292.	2.8	3
120	A frame-based approach for the making of holes in turned parts and its further development. Journal of Materials Processing Technology, 1990, 23, 149-162.	3.1	2
121	Teleoperation characteristics and human response factor in relation to a robotic welding system. , 0, , .		2
122	Fabrication of microcylindrical parts based on a novel grinding apparatus. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2000, 214, 245-249.	1.5	2
123	Evaluation of alignment marks using ASML ATHENA alignment system in 90-nm BEOL process. , 2003, 5038, 1211.		2
124	Dual Flat Flextensional Ultrasound Transducers for Enhancement of Transdermal Drug Delivery. Japanese Journal of Applied Physics, 2004, 43, 6488-6493.	0.8	2
125	Single flexible ultrasound transducer for enhancement of permeability of silicone membrane. Sensors and Actuators A: Physical, 2005, 120, 37-43.	2.0	2
126	Benefits of using real-time pulse discriminating system in micro-EDM monitoring and control system. International Journal of Mechatronics and Manufacturing Systems, 2010, 3, 466.	0.1	2

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127	Loose Abrasive Machining. , 2015, , 1051-1088.		2
128	Effects of Combined Wear Mechanisms in Internal Surface Finishing Using Controlled Hydrodynamic Cavitation Abrasive Finishing Process. Lecture Notes in Mechanical Engineering, 2020, , 244-253.	0.3	2
129	Determination of the initial centre of rotation of a bar being pushed or pulled during handling. Mechanism and Machine Theory, 1992, 27, 729-739.	2.7	1
130	<title>Study of relationships between roughness and lightness of precision-machined surfaces</title>. , 2001, , .		1
131	Effects of magnetic states in recording media on moisture adsorption and surface hydrophobicity. Journal of Magnetism and Magnetic Materials, 2004, 278, 20-27.	1.0	1
132	Modeling of wafer alignment marks using geometrical theory of diffraction (GTD). , 2005, , .		1
133	Effect of Tool Electrode Material on the Spark Erosion of Micro Grooves. Materials Science Forum, 2006, 526, 79-84.	0.3	1
134	Higher Order Asymptotic Analysis of Impedance Wedge Using Uniform Theory of Diffraction. Electromagnetics, 2007, 27, 23-39.	0.3	1
135	A Low Cost Wearable Wireless Sensing System for Capturing Human Arm Postures in Post-Stroke Rehabilitation. Mechatronic Systems and Control, 2010, 7, .	0.2	1
136	Cavitation Erosion Study in Deionized Water Containing Abrasive Particles. Annals of DAAAM & Proceedings, 2016, , 0818-0824.	0.1	1
137	A tool condition monitoring system in a CIM workcell. Computers in Industry, 1994, 25, 77-82.	5.7	0
138	Performance evaluation of shank-type tooling and modular tooling for lathes. Journal of Materials Processing Technology, 1996, 62, 335-340.	3.1	0
139	A NEW SCHEME TO REALIZE THE MEASUREMENT STANDARD OF MICROFORCE. International Journal of Nanoscience, 2005, 04, 689-694.	0.4	0
140	Electromagnetic ray tracing model for line structures. Optics Express, 2008, 16, 3589.	1.7	0
141	A wearable sensor network for the control of virtual characters. , 2009, , .		0
142	Predictive Modelling of Surface Roughness for Double Vibropolishing in Trough System. Procedia CIRP, 2018, 77, 489-492.	1.0	0
143	2 Deep hole gun drilling of nickel-based superalloys. , 2018, , 37-88.		0
144	Modal Analysis on Laboratory Scale Vibratory Bowl. , 2018, , .		0

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145	Surface texturing of fan-blade body by random-orbital polishing with in-line aqueous mist. International Journal of Advanced Manufacturing Technology, 2021, 117, 3011-3027.	1.5	0
146	STRESS RELAXATION OF MAGNETORHEOLOGICAL FLUIDS. , 2002, , .		0
147	Effect of Tool Electrode Material on the Spark Erosion of Micro Grooves. Materials Science Forum, 0, , 79-84.	0.3	0