Senthil Kumar Anantharajan

List of Publications by Year
in descending order

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178	4,976	81743	133063
papers	citations	39 h-index	59 g-index

179	179	179	2733
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental evaluation on the effect of minimal quantities of lubricant in milling. International Journal of Machine Tools and Manufacture, 2002, 42, 539-547.	6.2	184
2	Micro milling of pure copper. Journal of Materials Processing Technology, 2001, 116, 39-43.	3.1	150
3	A predictive model of the critical undeformed chip thickness for ductileâ€“brittle transition in nano-machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 64, 114-122.	6.2	150
4	Experimental study of micro- and nano-scale cutting of aluminum 7075-T6. International Journal of Machine Tools and Manufacture, 2006, 46, 929-936.	6.2	118
5	Experimental study on ultrasonic elliptical vibration cutting of hardened steel using PCD tools. Journal of Materials Processing Technology, 2011, 211, 1701-1709.	3.1	108
6	A fundamental study on the mechanism of electrolytic in-process dressing (ELID) grinding. International Journal of Machine Tools and Manufacture, 2002, 42, 935-943.	6.2	98
7	A model to predict the critical undeformed chip thickness in vibration-assisted machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 69, 57-66.	6.2	97
8	Topology Optimized Multimaterial Soft Fingers for Applications on Grippers, Rehabilitation, and Artificial Hands. IEEE/ASME Transactions on Mechatronics, 2019, 24, 120-131.	3.7	93
9	A three-dimensional analytical cutting force model for micro end milling operation. International Journal of Machine Tools and Manufacture, 2006, 46, 353-366.	6.2	87
10	Tool-based nanofinishing and micromachining. Journal of Materials Processing Technology, 2007, 185, 2-16.	3.1	83
11	Influences of pulsed power condition on the machining properties in micro EDM. Journal of Materials Processing Technology, 2007, 190, 73-76.	3.1	81
12	Evaluation of Minimal of Lubricant in End Milling. International Journal of Advanced Manufacturing Technology, 2001, 18, 235-241.	1.5	77
13	CNC microturning: an application to miniaturization. International Journal of Machine Tools and Manufacture, 2005, 45, 631-639.	6.2	77
14	A study on EDM debris particle size and flushing mechanism for efficient debris removal in EDM-drilling of Inconel 718. Journal of Materials Processing Technology, 2018, 255, 263-274.	3.1	77
15	A multiprocess machine tool for compound micromachining. International Journal of Machine Tools and Manufacture, 2010, 50, 344-356.	6.2	74
16	Variation of surface generation mechanisms in ultra-precision machining due to relative tool sharpness (RTS) and material properties. International Journal of Machine Tools and Manufacture, 2017, 115, 15-28.	6.2	74
17	Expert fixture-design system for an automated manufacturing environment. CAD Computer Aided Design, 1992, 24, 316-326.	1.4	71
18	A study on wear mechanism and wear reduction strategies in grinding wheels used for ELID grinding. Wear, 2003, 254, 1247-1255.	1.5	69

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19	A review on the current research trends in ductile regime machining. International Journal of Advanced Manufacturing Technology, 2012, 63, 465-480.	1.5	69
20	A Framework for an Object/Rule-Based Automated Fixture Design System. CIRP Annals - Manufacturing Technology, 1991, 40, 147-151.	1.7	68
21	Microlens array fabrication by laser interference lithography for super-resolution surface nanopatterning. Applied Physics Letters, 2006, 89, 191125.	1.5	68
22	An analytical force model for orthogonal elliptical vibration cutting technique. Journal of Manufacturing Processes, 2012, 14, 378-387.	2.8	68
23	A novel surface analytical model for cutting linearization error in fast tool/slow slide servo diamond turning. Precision Engineering, 2014, 38, 849-860.	1.8	61
24	Development of an Internet-enabled interactive fixture design system. CAD Computer Aided Design, 2003, 35, 945-957.	1.4	60
25	Rehbinder effect in ultraprecision machining of ductile materials. International Journal of Machine Tools and Manufacture, 2018, 133, 47-60.	6.2	58
26	Development of a distributed collaborative design framework within peer-to-peer environment. CAD Computer Aided Design, 2008, 40, 891-904.	1.4	52
27	Modeling of the effect of tool edge radius on surface generation in elliptical vibration cutting. International Journal of Advanced Manufacturing Technology, 2013, 65, 35-42.	1.5	49
28	Rotating-tool diamond turning of Fresnel lenses on a roller mold for manufacturing of functional optical film. Precision Engineering, 2018, 51, 445-457.	1.8	49
29	Experimental and theoretical study of internal finishing by a novel magnetically driven polishing tool. International Journal of Machine Tools and Manufacture, 2020, 153, 103552.	6.2	49
30	Conceptual Design of Fixtures using Genetic Algorithms. International Journal of Advanced Manufacturing Technology, 1999, 15, 79-84.	1.5	48
31	An automated design and assembly of interference-free modular fixture setup. CAD Computer Aided Design, 2000, 32, 583-596.	1.4	48
32	Fabrication of concave micro lens array using laser patterning and isotropic etching. International Journal of Machine Tools and Manufacture, 2006, 46, 552-558.	6.2	48
33	Developing distributed applications for integrated product and process design. CAD Computer Aided Design, 2004, 36, 679-689.	1.4	46
34	Design and Development of a Topology-Optimized Three-Dimensional Printed Soft Gripper. Soft Robotics, 2018, 5, 650-661.	4.6	45
35	Fabrication of TiÂ+ÂMg composites by three-dimensional printing of porous Ti and subsequent pressureless infiltration of biodegradable Mg. Materials Science and Engineering C, 2020, 108, 110478.	3.8	44
36	Identification of Effective Zones for High Pressure Coolant in Milling. CIRP Annals - Manufacturing Technology, 2000, 49, 47-52.	1.7	43

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37	A study of the diamond tool wear suppression mechanism in vibration-assisted machining of steel. Journal of Materials Processing Technology, 2014, 214, 496-506.	3.1	43
38	Functions and applications of metallic and metallic oxide nanoparticles in orthopedic implants and scaffolds. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 160-179.	1.6	43
39	Development of micropin fabrication process using tool based micromachining. International Journal of Advanced Manufacturing Technology, 2006, 27, 939-944.	1.5	42
40	Modelling of flow stress by correlating the material grain size and chip thickness in ultra-precision machining. International Journal of Machine Tools and Manufacture, 2017, 123, 57-75.	6.2	42
41	Effect of High-Pressure Coolant on Machining Performance. International Journal of Advanced Manufacturing Technology, 2002, 20, 83-91.	1.5	41
42	An automated Guilloche machining technique for the fabrication of polygonal Fresnel lens array. Precision Engineering, 2015, 41, 55-62.	1.8	41
43	Design and analysis of flexure-hinge parameter in microgripper. International Journal of Advanced Manufacturing Technology, 2010, 49, 1185-1193.	1.5	40
44	Effect of Chilled Air on Machining Performance in End Milling. International Journal of Advanced Manufacturing Technology, 2003, 21, 787-795.	1.5	39
45	Performance of inherently compensated flat pad aerostatic bearings subject to dynamic perturbation forces. Precision Engineering, 2012, 36, 399-407.	1.8	39
46	A novel magnetically driven polishing technique for internal surface finishing. Precision Engineering, 2018, 54, 222-232.	1.8	39
47	Innovative use ofThiobacillus ferrooxidans for the biological machining of metals. Acta Biotechnologica, 2000, 20, 87-96.	1.0	38
48	Automatic hexahedral mesh generation for multi-domain composite models using a hybrid projective grid-based method. CAD Computer Aided Design, 2004, 36, 203-215.	1.4	38
49	Automatic solid decomposition and reduction for non-manifold geometric model generation. CAD Computer Aided Design, 2004, 36, 1357-1369.	1.4	38
50	Ultra-precision machining of radial Fresnel lens on roller moulds. CIRP Annals - Manufacturing Technology, 2015, 64, 121-124.	1.7	38
51	An approach to automating modular fixture design and assembly. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 1997, 211, 509-521.	1.5	37
52	An intelligent fixture with a dynamic clamping scheme. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2000, 214, 183-196.	1.5	35
53	Liquid tunable diffractive/refractive hybrid lens. Optics Letters, 2009, 34, 2793.	1.7	35
54	Design and development of a soft gripper with topology optimization. , 2017, , .		34

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55	Characterization of ELID grinding process for machining silicon wafers. Journal of Materials Processing Technology, 2008, 198, 281-290.	3.1	33
56	The effects of tool edge radius on drill deflection and hole misalignment in deep hole gundrilling of Inconel-718. CIRP Annals - Manufacturing Technology, 2014, 63, 125-128.	1.7	32
57	Modeling, Analysis, and Verification of Optimal Fixturing Design. IEEE Transactions on Automation Science and Engineering, 2004, 1, 121-132.	3.4	31
58	Conceptual Design of Fixtures Using Machine Learning Techniques. International Journal of Advanced Manufacturing Technology, 2000, 16, 176-181.	1.5	30
59	Optimization of cutting parameters in micro end milling operations in dry cutting condition using genetic algorithms. International Journal of Advanced Manufacturing Technology, 2006, 30, 1030-1039.	1.5	29
60	A review of recent advances in fabrication of optical Fresnel lenses. Journal of Manufacturing Processes, 2021, 71, 113-133.	2.8	29
61	A Feature-Based Classification Scheme for Fixtures. CIRP Annals - Manufacturing Technology, 1992, 41, 189-192.	1.7	28
62	Effect of apex offset inconsistency on hole straightness deviation in deep hole gun drilling of Inconel 718. International Journal of Machine Tools and Manufacture, 2018, 125, 123-132.	6.2	28
63	A computational geometry approach to optimum clamping synthesis of machining fixtures. International Journal of Production Research, 1999, 37, 3495-3517.	4.9	27
64	Improvement of form accuracy in hybrid machining of microstructures. Journal of Electronic Materials, 2002, 31, 1032-1038.	1.0	27
65	A study of Titanium and Magnesium particle-induced oxidative stress and toxicity to human osteoblasts. Materials Science and Engineering C, 2020, 117, 111285.	3.8	27
66	Stiffness modeling of an industrial robot with a gravity compensator considering link weights. Mechanism and Machine Theory, 2021, 161, 104331.	2.7	27
67	A comparative investigation on the mechanical properties and cytotoxicity of Cubic, Octet, and TPMS gyroid structures fabricated by selective laser melting of stainless steel 316L. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 129, 105151.	1.5	27
68	Automatic generation of dynamic clamping forces for machining fixtures. International Journal of Production Research, 1999, 37, 2755-2776.	4.9	25
69	Beneficial stress of a coating on ductile-mode cutting of single-crystal brittle material. International Journal of Machine Tools and Manufacture, 2021, 168, 103787.	6.2	25
70	A novel approach in high performance deep hole drilling of Inconel 718. Precision Engineering, 2019, 56, 432-437.	1.8	24
71	Synthesis methods of functionalized nanoparticles: a review. Bio-Design and Manufacturing, 2021, 4, 379-404.	3.9	24
72	A multi-agent approach to fixture design. Journal of Intelligent Manufacturing, 2001, 12, 31-42.	4.4	23

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73	Suppression of diamond tool wear in machining of tungsten carbide by combining ultrasonic vibration and electrochemical processing. Ceramics International, 2018, 44, 4142-4153.	2.3	23
74	Ultrafast drilling of Inconel 718 using hybrid EDM with different electrode materials. International Journal of Advanced Manufacturing Technology, 2020, 106, 2281-2294.	1.5	23
75	Fixture design information support for integrated design and manufacturing. International Journal of Production Research, 2006, 44, 2205-2219.	4.9	22
76	Automatic mesh-healing technique for model repair and finite element model generation. Finite Elements in Analysis and Design, 2007, 43, 1109-1119.	1.7	22
77	Sub-micron surface patterning by laser irradiation through microlens arrays. Journal of Materials Processing Technology, 2007, 192-193, 328-333.	3.1	22
78	Design and Characterization of a Novel T-Shaped Multi-Axis Piezoresistive Force/Moment Sensor. IEEE Sensors Journal, 2016, 16, 4198-4210.	2.4	22
79	Surface quality characterisation of diamond cut V-groove structures made of rapidly solidified aluminium RSA-905. Precision Engineering, 2018, 53, 120-133.	1.8	22
80	A comparative study on the modelling of EDM and hybrid electrical discharge and arc machining considering latent heat and temperature-dependent properties of Inconel 718. International Journal of Advanced Manufacturing Technology, 2018, 94, 2729-2737.	1.5	22
81	Modeling of Ultra-Precision ELID Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 296-302.	1.3	21
82	A Review of Electrolytic In-Process Dressing (ELID) Grinding. Key Engineering Materials, 0, 404, 45-59.	0.4	21
83	The effects of pilot hole geometry on tool-work engagement efficacy in deep hole drilling. Journal of Manufacturing Processes, 2015, 19, 135-141.	2.8	21
84	Influence of relative tool sharpness (RTS) on different ultra-precision machining regimes of Mg alloy. International Journal of Advanced Manufacturing Technology, 2018, 96, 3545-3563.	1.5	20
85	Topology optimized design, fabrication and evaluation of a multimaterial soft gripper. , 2018, , .		19
86	High-efficiency swinging-rotating diamond shaping of Fresnel lenses on roller molds. CIRP Annals - Manufacturing Technology, 2018, 67, 121-124.	1.7	19
87	An Integrated Approach to Collision-Free Computer-Aided Modular Fixture Design. International Journal of Advanced Manufacturing Technology, 2000, 16, 233-242.	1.5	18
88	A study on the grinding of glass using electrolytic in-process dressing. Journal of Electronic Materials, 2002, 31, 1039-1046.	1.0	18
89	Ultra-precision machining of grayscale pixelated micro images on metal surface. Precision Engineering, 2018, 52, 211-220.	1.8	18
90	Automatic recognition of design and machining features from prismatic parts. International Journal of Advanced Manufacturing Technology, 1996, 11, 136-145.	1.5	17

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91	XML-based Representation in a CBR System for Fixture Design. Computer-Aided Design and Applications, 2005, 2, 339-348.	0.4	17
92	Wear Phenomena in Abrasive-Free Copper CMP Process. Journal of the Electrochemical Society, 2005, 152, G867.	1.3	17
93	Nano finish grinding of brittle materials using electrolytic in-process dressing (ELID) technique. Sadhana - Academy Proceedings in Engineering Sciences, 2003, 28, 957-974.	0.8	16
94	Performance analysis of Pareto optimal bearings subject to surface error variations. Tribology International, 2010, 43, 2240-2249.	3.0	16
95	Profile evaluation of radial Fresnel lens directly machined on roller molds by rotating-tool diamond turning. Precision Engineering, 2017, 50, 44-52.	1.8	16
96	High throughput deep-hole drilling of Inconel 718 using PCBN gun drill. Journal of Manufacturing Processes, 2020, 57, 302-311.	2.8	16
97	Roll-to-Roll Embossing of Optical Radial Fresnel Lenses on Polymer Film for Concentrator Photovoltaics: A Feasibility Study. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 77-88.	2.7	16
98	Automated synthesis of modular fixture designs using an evolutionary search algorithm. International Journal of Production Research, 2005, 43, 5047-5070.	4.9	15
99	CAx-technologies for hybrid fast tool/slow slide servo diamond turning of freeform surface. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2016, 230, 1465-1479.	1.5	15
100	Chip perforation and â€˜burnishingâ€“likeâ€™ finishing of Al alloy in precision machining. Precision Engineering, 2017, 50, 393-409.	1.8	15
101	Super Dielectric Based EDM Process for Drilling of Inconel 718. Materials and Manufacturing Processes, 2021, 36, 341-350.	2.7	15
102	Ultra-precision direct diamond shaping of functional micro features. Journal of Manufacturing Processes, 2021, 64, 209-223.	2.8	15
103	A novel method for layered tool path generation in the fast tool servo diamond turning of noncircular microstructural surfaces. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 210-219.	1.5	14
104	The Effects of Tool Degradation on Hole Straightness in Deep Hole Gundrilling of Inconel-718. Procedia CIRP, 2014, 14, 593-598.	1.0	14
105	An Analytical Model for Determining the Shear Angle in 1D Vibration-Assisted Micro Machining. Nanomanufacturing and Metrology, 2019, 2, 199-214.	1.5	14
106	Effects of cutting edge radius in vibration assisted micro machining. International Journal of Mechanical Sciences, 2021, 208, 106673.	3.6	14
107	Automatic hexahedral mesh generation using a new grid-based method with geometry and mesh transformation. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 4071-4096.	3.4	13
108	A Material Removal Rate Model for Copper Abrasive-Free CMP. Journal of the Electrochemical Society, 2005, 152, G417.	1.3	13

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109	Experimental study of wheel wear in electrolytic in-process dressing and grinding. International Journal of Advanced Manufacturing Technology, 2010, 50, 931-940.	1.5	13
110	On the design and application of hybrid electrical discharge and arc machining process for enhancing drilling performance in Inconel 718. International Journal of Advanced Manufacturing Technology, 2018, 99, 1825-1837.	1.5	13
111	Performance evaluation of a newly developed electrolytic system for stable thinning of silicon wafers. Thin Solid Films, 2006, 504, 15-19.	0.8	12
112	Diamond turning and soft lithography processes for liquid tunable lenses. Journal of Micromechanics and Microengineering, 2010, 20, 025021.	1.5	12
113	Investigation of the critical cutting edge radius based on material hardness. International Journal of Advanced Manufacturing Technology, 2017, 88, 3295-3306.	1.5	12
114	On the theoretical foundation for the microcutting of calcium fluoride single crystals at elevated temperatures. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 1123-1129.	1.5	12
115	Automatic Hole Repairing for Cranioplasty using B??zier Surface Approximation. Journal of Craniofacial Surgery, 2006, 17, 344-352.	0.3	11
116	Liquid tunable double-focus lens fabricated with diamond cutting and soft lithography. Applied Optics, 2009, 48, 5733.	2.1	11
117	Material perspective on the evolution of micro- and nano-scale cutting of metal alloys. Journal of Micromanufacturing, 2018, 1, 97-114.	0.6	11
118	Development of robust fixture locating layout for machining workpieces. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2010, 224, 1792-1803.	1.5	10
119	A study on compound micromachining using laser and Electric Discharge Machining (EDM). Advances in Materials and Processing Technologies, 2016, 2, 258-265.	0.8	10
120	High-temperature nanoindentation size effect in fluorite material. International Journal of Mechanical Sciences, 2019, 159, 459-466.	3.6	10
121	Diamond shaping of blazed gratings on freeform surfaces. Precision Engineering, 2021, 72, 899-911.	1.8	10
122	A rule-based system for angular tolerance charting. International Journal of Machine Tools and Manufacture, 1992, 32, 885-899.	6.2	9
123	An empirical study on the characterization of machined surface integrity by chip morphology in dry end-milling of titanium alloy. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2014, 228, 471-476.	1.5	9
124	Influence of Burnishing Axial Interference on Hole Surface Quality in Deep Hole Drilling of Inconel 718. Procedia Manufacturing, 2016, 5, 1295-1307.	1.9	9
125	Design and Analysis of Soft Grippers for Hand Rehabilitation. , 2017, , .		9
126	A CAD integrated analysis of flatness in a form tolerance zone. CAD Computer Aided Design, 2001, 33, 853-865.	1.4	8

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127	Evaluation and characterization of nitinol stents produced by selective laser melting with various process parameters. Progress in Additive Manufacturing, 2022, 7, 1141-1153.	2.5	8
128	Dishing and nitride erosion of STI-CMP for different integration schemes. Journal of Electronic Materials, 2001, 30, 1478-1482.	1.0	7
129	An Adaptive Machining Fixture Design System for Automatically Dealing With Design Changes. Journal of Computing and Information Science in Engineering, 2007, 7, 259-268.	1.7	7
130	Influence of cutting edge radius on small scale material removal at ultra-precise level. Procedia CIRP, 2018, 77, 658-661.	1.0	7
131	Design and fabrication of composite polygonal Fresnel lenses. Optics Express, 2021, 29, 36516.	1.7	7
132	Automatic mesh generation and modification techniques for mixed quadrilateral and hexahedral element meshes of non-manifold models. CAD Computer Aided Design, 2004, 36, 581-594.	1.4	6
133	Automatic Hole Repairing for Cranioplasty Using BÃ©zier Surface Approximation. Journal of Craniofacial Surgery, 2005, 16, 1076-1084.	0.3	5
134	A Framework for Distributed Collaborative Engineering on Grids. Computer-Aided Design and Applications, 2007, 4, 353-362.	0.4	5
135	Collaborative Fixture Design and Analysis Using Service Oriented Architecture. IEEE Transactions on Automation Science and Engineering, 2010, 7, 617-629.	3.4	5
136	Direct Deposition of Micron-Thick Aligned Ceramic<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mrow><mml:mtext>TiO</mml:mtext></mml:mr mathvariant="bold">2</mml:mn></mml:msub></mml:mrow></mml:math>Nanofibrous Film on FTOs by Double-Needle Electrospinning Using Air-Turbulence Shielded Disc Collector. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	5
137	Fast and Fine Tool Servo for Ultraprecision Machining. , 2014, , 61-88.		5
138	Intelligent Nanomaterials for Wearable and Stretchable Strain Sensor Applications: The Science behind Diverse Mechanisms, Fabrication Methods, and Real-Time Healthcare. Polymers, 2022, 14, 2219.	2.0	5
139	Design Change Synchronization in a Distributed Environment for Integrated Product and Process Design. Computer-Aided Design and Applications, 2004, 1, 43-52.	0.4	4
140	A study on the equilibrium condition of the oxide layer in ELID grinding. International Journal of Abrasive Technology, 2010, 3, 25.	0.2	4
141	Elastic and plastic chip deformation mechanism in 1D vibration-assisted metal cutting. Procedia CIRP, 2018, 71, 309-312.	1.0	4
142	Investigation on Developing a Topology Optimized and 3D Printable Multimaterial Soft Gripper. , 2018, , .		4
143	A study on automatic fixture design using reinforcement learning. International Journal of Advanced Manufacturing Technology, 2020, 107, 2303-2311.	1.5	4
144	Effects of Cutting and Vibration Parameters on Transient Cutting Force in Elliptical Vibration Cutting. Communications in Computer and Information Science, 2012, , 483-490.	0.4	4

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145	Model Compression for Design Synchronization within Distributed Environments. Computer-Aided Design and Applications, 2004, 1, 331-338.	0.4	3
146	Genetic algorithms in mesh optimization for visualization and finite element models. Neural Computing and Applications, 2006, 15, 366-372.	3.2	3
147	Templatized refinement of triangle meshes using surface interpolation. International Journal for Numerical Methods in Engineering, 2006, 65, 1472-1494.	1.5	3
148	Drill Hole Orientation: Its Role and Importance on the Compression Response of Pure Magnesium. Applied Sciences (Switzerland), 2020, 10, 7047.	1.3	3
149	Investigation of Electrochemical Oxidation Behaviors and Mechanism of Single-Crystal Silicon (100) Wafer under Potentiostatic Mode. Coatings, 2020, 10, 586.	1.2	3
150	A â€˜Plug-and-Playâ€™ Computing Environment for an Extended Enterprise. , 2007, , 71-91.		3
151	Advanced ELID Process Development for Grinding Silicon Wafers. Materials Research Society Symposia Proceedings, 2005, 867, 921.	0.1	2
152	Generalized Surface Interpolation for Triangle Meshes with Feature Retention. Computer-Aided Design and Applications, 2005, 2, 193-202.	0.4	2
153	Integrated fixture design and analysis system based on service-oriented architecture. , 2008, , .		2
154	A Study on Ultrasonic Elliptical Vibration Cutting of Hardened Steel Using PCD Tools. , 2010, , .		2
155	LARGE AREA PARALLEL SURFACE NANOSTRUCTURING WITH LASER IRRADIATION THROUGH MICROLENS ARRAYS. Surface Review and Letters, 2010, 17, 383-387.	0.5	2
156	Study of field intensity distribution of laser beam propagating through a micro-lens array. Applied Physics A: Materials Science and Processing, 2012, 107, 149-153.	1.1	2
157	Ultrasonic Vibration Cutting. , 2014, , 455-481.		2
158	Convolutional neural networks for prediction of geometrical errors in incremental sheet metal forming. Journal of Intelligent Manufacturing, 0, , 1.	4.4	2
159	The development of an Internet-enabled semi-automated fixture design system. , 0, , .		1
160	Effect of Minimal Quantities of Lubricant in Micro Milling. , 2002, , 309-313.		1
161	Development of Liquid Tunable Diffractive/Refractive Hybrid Lens Based on Combination of Diamond Turning and Soft Lithography. Advanced Materials Research, 2009, 74, 85-88.	0.3	1
162	Compound Micro/Nano Machining â€“ A Tool-Based Innovative and Integrated Approach. Key Engineering Materials, 2010, 447-448, 9-15.	0.4	1

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163	A Study on Surface Generation along Nominal Cutting Direction in Elliptical Vibration Cutting. Advanced Materials Research, 0, 314-316, 1851-1856.	0.3	1
164	Electrostatic Micromachined Resonating Micro-Scanner for Circumferential Endoscopic Bio-Imaging. IEEE Photonics Technology Letters, 2013, 25, 749-752.	1.3	1
165	MEMS Electrostatic Double T-Shaped Spring Mechanism for Circumferential Scanning. Journal of Microelectromechanical Systems, 2013, 22, 1147-1157.	1.7	1
166	Polygonal pyramidal reflector-based micromachined microscanners for bioimaging. Journal of Micro/ Nanolithography, MEMS, and MOEMS, 2013, 13, 011109.	1.0	1
167	A Novel Method for Profile Error Analysis of Freeform Surfaces in FTS/STS Diamond Turning. Key Engineering Materials, 0, 625, 101-107.	0.4	1
168	Die-sinking of super dielectric based electrical discharge machining using 3D printed electrodes. Procedia CIRP, 2020, 95, 471-475.	1.0	1
169	Block Cartesian Abstraction of a Geometric Model Using Fuzzy Logic. Computer-Aided Design and Applications, 2004, 1, 293-300.	0.4	0
170	Book review of Micromachining of Engineering Materials. By J. McGeough (New York, Marcel Dekker,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 42, 213-213.	4.9	0
171	Block Cartesian abstraction of a geometric model and its application in hexahedral mesh generation. CAD Computer Aided Design, 2005, 37, 899-907.	1.4	0
172	Estimation of wheel wear in electrolytic in-process dressing (ELID) and grinding. International Journal of Abrasive Technology, 2011, 4, 41.	0.2	0
173	Electrostatic MEMS resonating micro-polygonal scanner for circumferential endoscopic bio-imaging. , 2013, , .		0
174	Design and characterization of a silicon piezoresistive three-axial force sensor for micro-flapping wing MAV applications. Proceedings of SPIE, 2015, , .	0.8	0
175	Development of a Reference Enterprise Model for Fixture Design Information Support in Integrated Manufacturing. , 2003, , .		0
176	Computer-Aided Fixture Design. , 1995, , 122-154.		0
177	Surface texturing for improved tribological performance in deep hole drilling. , 2022, , 239-258.		0
178	Generating direct diamond shaping tool paths using special-purpose computer-aided-machining post-processor. International Journal of Computer Integrated Manufacturing, 0, , 1-15.	2.9	0