

Senthil Kumar Anantharajan

List of Publications by Year in descending order

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178
papers

4,976
citations

81743

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59
g-index

179
all docs

179
docs citations

179
times ranked

2733
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface texturing for improved tribological performance in deep hole drilling. , 2022, , 239-258.		0
2	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
3	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
4	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
5	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
6	Super Dielectric Based EDM Process for Drilling of Inconel 718. Materials and Manufacturing Processes, 2021, 36, 341-350.	2.7	15
7	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
8	Synthesis methods of functionalized nanoparticles: a review. Bio-Design and Manufacturing, 2021, 4, 379-404.	3.9	24
9	Ultra-precision direct diamond shaping of functional micro features. Journal of Manufacturing Processes, 2021, 64, 209-223.	2.8	15
10	Stiffness modeling of an industrial robot with a gravity compensator considering link weights. Mechanism and Machine Theory, 2021, 161, 104331.	2.7	27
11	Design and fabrication of composite polygonal Fresnel lenses. Optics Express, 2021, 29, 36516.	1.7	7
12	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
13	Effects of cutting edge radius in vibration assisted micro machining. International Journal of Mechanical Sciences, 2021, 208, 106673.	3.6	14
14	Diamond shaping of blazed gratings on freeform surfaces. Precision Engineering, 2021, 72, 899-911.	1.8	10
15	A review of recent advances in fabrication of optical Fresnel lenses. Journal of Manufacturing Processes, 2021, 71, 113-133.	2.8	29
16	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
17	Fabrication of Ti \hat{A} + \hat{A} Mg 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
18	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

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19	High throughput deep-hole drilling of Inconel 718 using PCBN gun drill. <i>Journal of Manufacturing Processes</i> , 2020, 57, 302-311.	2.8	16
20	Drill Hole Orientation: Its Role and Importance on the Compression Response of Pure Magnesium. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 7047.	1.3	3
21	Experimental and theoretical study of internal finishing by a novel magnetically driven polishing tool. <i>International Journal of Machine Tools and Manufacture</i> , 2020, 153, 103552.	6.2	49
22	Investigation of Electrochemical Oxidation Behaviors and Mechanism of Single-Crystal Silicon (100) Wafer under Potentiostatic Mode. <i>Coatings</i> , 2020, 10, 586.	1.2	3
23	A study on automatic fixture design using reinforcement learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2303-2311.	1.5	4
24	Die-sinking of super dielectric based electrical discharge machining using 3D printed electrodes. <i>Procedia CIRP</i> , 2020, 95, 471-475.	1.0	1
25	An Analytical Model for Determining the Shear Angle in 1D Vibration-Assisted Micro Machining. <i>Nanomanufacturing and Metrology</i> , 2019, 2, 199-214.	1.5	14
26	A novel approach in high performance deep hole drilling of Inconel 718. <i>Precision Engineering</i> , 2019, 56, 432-437.	1.8	24
27	High-temperature nanoindentation size effect in fluorite material. <i>International Journal of Mechanical Sciences</i> , 2019, 159, 459-466.	3.6	10
28	Topology Optimized Multimaterial Soft Fingers for Applications on Grippers, Rehabilitation, and Artificial Hands. <i>IEEE/ASME Transactions on Mechatronics</i> , 2019, 24, 120-131.	3.7	93
29	Effect of apex offset inconsistency on hole straightness deviation in deep hole gun drilling of Inconel 718. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 125, 123-132.	6.2	28
30	Surface quality characterisation of diamond cut V-groove structures made of rapidly solidified aluminium RSA-905. <i>Precision Engineering</i> , 2018, 53, 120-133.	1.8	22
31	Ultra-precision machining of grayscale pixelated micro images on metal surface. <i>Precision Engineering</i> , 2018, 52, 211-220.	1.8	18
32	Influence of relative tool sharpness (RTS) on different ultra-precision machining regimes of Mg alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 3545-3563.	1.5	20
33	On the theoretical foundation for the microcutting of calcium fluoride single crystals at elevated temperatures. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1123-1129.	1.5	12
34	Rotating-tool diamond turning of Fresnel lenses on a roller mold for manufacturing of functional optical film. <i>Precision Engineering</i> , 2018, 51, 445-457.	1.8	49
35	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. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 94, 2729-2737.	1.5	22
36	A study on EDM debris particle size and flushing mechanism for efficient debris removal in EDM-drilling of Inconel 718. <i>Journal of Materials Processing Technology</i> , 2018, 255, 263-274.	3.1	77

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37	Suppression of diamond tool wear in machining of tungsten carbide by combining ultrasonic vibration and electrochemical processing. <i>Ceramics International</i> , 2018, 44, 4142-4153.	2.3	23
38	Elastic and plastic chip deformation mechanism in 1D vibration-assisted metal cutting. <i>Procedia CIRP</i> , 2018, 71, 309-312.	1.0	4
39	Influence of cutting edge radius on small scale material removal at ultra-precise level. <i>Procedia CIRP</i> , 2018, 77, 658-661.	1.0	7
40	On the design and application of hybrid electrical discharge and arc machining process for enhancing drilling performance in Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 99, 1825-1837.	1.5	13
41	Design and Development of a Topology-Optimized Three-Dimensional Printed Soft Gripper. <i>Soft Robotics</i> , 2018, 5, 650-661.	4.6	45
42	Material perspective on the evolution of micro- and nano-scale cutting of metal alloys. <i>Journal of Micromanufacturing</i> , 2018, 1, 97-114.	0.6	11
43	Topology optimized design, fabrication and evaluation of a multimaterial soft gripper. , 2018, , .		19
44	High-efficiency swinging-rotating diamond shaping of Fresnel lenses on roller molds. <i>CIRP Annals - Manufacturing Technology</i> , 2018, 67, 121-124.	1.7	19
45	Investigation on Developing a Topology Optimized and 3D Printable Multimaterial Soft Gripper. , 2018, , .		4
46	Rehbinder effect in ultraprecision machining of ductile materials. <i>International Journal of Machine Tools and Manufacture</i> , 2018, 133, 47-60.	6.2	58
47	A novel magnetically driven polishing technique for internal surface finishing. <i>Precision Engineering</i> , 2018, 54, 222-232.	1.8	39
48	Profile evaluation of radial Fresnel lens directly machined on roller molds by rotating-tool diamond turning. <i>Precision Engineering</i> , 2017, 50, 44-52.	1.8	16
49	Modelling of flow stress by correlating the material grain size and chip thickness in ultra-precision machining. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 123, 57-75.	6.2	42
50	Design and Analysis of Soft Grippers for Hand Rehabilitation. , 2017, , .		9
51	Chip perforation and "burnishing"like™ finishing of Al alloy in precision machining. <i>Precision Engineering</i> , 2017, 50, 393-409.	1.8	15
52	Investigation of the critical cutting edge radius based on material hardness. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 88, 3295-3306.	1.5	12
53	Variation of surface generation mechanisms in ultra-precision machining due to relative tool sharpness (RTS) and material properties. <i>International Journal of Machine Tools and Manufacture</i> , 2017, 115, 15-28.	6.2	74
54	Design and development of a soft gripper with topology optimization. , 2017, , .		34

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55	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
56	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
57	Design and Characterization of a Novel T-Shaped Multi-Axis Piezoresistive Force/Moment Sensor. IEEE Sensors Journal, 2016, 16, 4198-4210.	2.4	22
58	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
59	Ultra-precision machining of radial Fresnel lens on roller moulds. CIRP Annals - Manufacturing Technology, 2015, 64, 121-124.	1.7	38
60	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
61	An automated Guilloche machining technique for the fabrication of polygonal Fresnel lens array. Precision Engineering, 2015, 41, 55-62.	1.8	41
62	Design and characterization of a silicon piezoresistive three-axial force sensor for micro-flapping wing MAV applications. Proceedings of SPIE, 2015, , .	0.8	0
63	Fast and Fine Tool Servo for Ultraprecision Machining. , 2014, , 61-88.		5
64	Ultrasonic Vibration Cutting. , 2014, , 455-481.		2
65	The effects of tool edge radius on drill deflection and hole misalignment in deep hole gun drilling of Inconel-718. CIRP Annals - Manufacturing Technology, 2014, 63, 125-128.	1.7	32
66	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
67	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
68	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
69	The Effects of Tool Degradation on Hole Straightness in Deep Hole Gun Drilling of Inconel-718. Procedia CIRP, 2014, 14, 593-598.	1.0	14
70	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
71	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
72	Electrostatic Micromachined Resonating Micro-Scanner for Circumferential Endoscopic Bio-Imaging. IEEE Photonics Technology Letters, 2013, 25, 749-752.	1.3	1

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73	MEMS Electrostatic Double T-Shaped Spring Mechanism for Circumferential Scanning. Journal of Microelectromechanical Systems, 2013, 22, 1147-1157.	1.7	1
74	A predictive model of the critical undeformed chip thickness for ductile-brittle transition in nano-machining of brittle materials. International Journal of Machine Tools and Manufacture, 2013, 64, 114-122.	6.2	150
75	Electrostatic MEMS resonating micro-polygonal scanner for circumferential endoscopic bio-imaging. , 2013, , .		0
76	Polygonal pyramidal reflector-based micromachined microscanners for bioimaging. Journal of Micro/Nanolithography, MEMS, and MOEMS, 2013, 13, 011109.	1.0	1
77	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
78	An analytical force model for orthogonal elliptical vibration cutting technique. Journal of Manufacturing Processes, 2012, 14, 378-387.	2.8	68
79	A review on the current research trends in ductile regime machining. International Journal of Advanced Manufacturing Technology, 2012, 63, 465-480.	1.5	69
80	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
81	Performance of inherently compensated flat pad aerostatic bearings subject to dynamic perturbation forces. Precision Engineering, 2012, 36, 399-407.	1.8	39
82	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
83	Estimation of wheel wear in electrolytic in-process dressing (ELID) and grinding. International Journal of Abrasive Technology, 2011, 4, 41.	0.2	0
84	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
85	Direct Deposition of Micron-Thick Aligned Ceramic TiO_2 Nanofibrous Film on FTOs by Double-Needle Electrospinning Using Air-Turbulence Shielded Disc Collector. Journal of Nanomaterials, 2011, 2011, 1-7.	1.5	5
86	A Study on Ultrasonic Elliptical Vibration Cutting of Hardened Steel Using PCD Tools. , 2010, , .		2
87	A study on the equilibrium condition of the oxide layer in ELID grinding. International Journal of Abrasive Technology, 2010, 3, 25.	0.2	4
88	Design and analysis of flexure-hinge parameter in microgripper. International Journal of Advanced Manufacturing Technology, 2010, 49, 1185-1193.	1.5	40
89	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
90	A multiprocess machine tool for compound micromachining. International Journal of Machine Tools and Manufacture, 2010, 50, 344-356.	6.2	74

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91	Performance analysis of Pareto optimal bearings subject to surface error variations. Tribology International, 2010, 43, 2240-2249.	3.0	16
92	Compound Micro/Nano Machining – A Tool-Based Innovative and Integrated Approach. Key Engineering Materials, 2010, 447-448, 9-15.	0.4	1
93	LARGE AREA PARALLEL SURFACE NANOSTRUCTURING WITH LASER IRRADIATION THROUGH MICROLENS ARRAYS. Surface Review and Letters, 2010, 17, 383-387.	0.5	2
94	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
95	Collaborative Fixture Design and Analysis Using Service Oriented Architecture. IEEE Transactions on Automation Science and Engineering, 2010, 7, 617-629.	3.4	5
96	Diamond turning and soft lithography processes for liquid tunable lenses. Journal of Micromechanics and Microengineering, 2010, 20, 025021.	1.5	12
97	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
98	Liquid tunable diffractive/refractive hybrid lens. Optics Letters, 2009, 34, 2793.	1.7	35
99	Liquid tunable double-focus lens fabricated with diamond cutting and soft lithography. Applied Optics, 2009, 48, 5733.	2.1	11
100	Characterization of ELID grinding process for machining silicon wafers. Journal of Materials Processing Technology, 2008, 198, 281-290.	3.1	33
101	Development of a distributed collaborative design framework within peer-to-peer environment. CAD Computer Aided Design, 2008, 40, 891-904.	1.4	52
102	Integrated fixture design and analysis system based on service-oriented architecture. , 2008, , .		2
103	Modeling of Ultra-Precision ELID Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 296-302.	1.3	21
104	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
105	A Framework for Distributed Collaborative Engineering on Grids. Computer-Aided Design and Applications, 2007, 4, 353-362.	0.4	5
106	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
107	Tool-based nanofinishing and micromachining. Journal of Materials Processing Technology, 2007, 185, 2-16.	3.1	83
108	Influences of pulsed power condition on the machining properties in micro EDM. Journal of Materials Processing Technology, 2007, 190, 73-76.	3.1	81

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109	Sub-micron surface patterning by laser irradiation through microlens arrays. Journal of Materials Processing Technology, 2007, 192-193, 328-333.	3.1	22
110	A "Plug-and-Play"™ Computing Environment for an Extended Enterprise. , 2007, , 71-91.		3
111	Microlens array fabrication by laser interference lithography for super-resolution surface nanopatterning. Applied Physics Letters, 2006, 89, 191125.	1.5	68
112	Fixture design information support for integrated design and manufacturing. International Journal of Production Research, 2006, 44, 2205-2219.	4.9	22
113	Automatic Hole Repairing for Cranioplasty using B-spline Surface Approximation. Journal of Craniofacial Surgery, 2006, 17, 344-352.	0.3	11
114	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
115	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
116	Performance evaluation of a newly developed electrolytic system for stable thinning of silicon wafers. Thin Solid Films, 2006, 504, 15-19.	0.8	12
117	Genetic algorithms in mesh optimization for visualization and finite element models. Neural Computing and Applications, 2006, 15, 366-372.	3.2	3
118	Development of micropin fabrication process using tool based micromachining. International Journal of Advanced Manufacturing Technology, 2006, 27, 939-944.	1.5	42
119	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
120	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
121	Templatized refinement of triangle meshes using surface interpolation. International Journal for Numerical Methods in Engineering, 2006, 65, 1472-1494.	1.5	3
122	Automatic Hole Repairing for Cranioplasty Using B-spline Surface Approximation. Journal of Craniofacial Surgery, 2005, 16, 1076-1084.	0.3	5
123	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
124	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
125	CNC microturning: an application to miniaturization. International Journal of Machine Tools and Manufacture, 2005, 45, 631-639.	6.2	77
126	Advanced ELID Process Development for Grinding Silicon Wafers. Materials Research Society Symposia Proceedings, 2005, 867, 921.	0.1	2

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127	XML-based Representation in a CBR System for Fixture Design. Computer-Aided Design and Applications, 2005, 2, 339-348.	0.4	17
128	Wear Phenomena in Abrasive-Free Copper CMP Process. Journal of the Electrochemical Society, 2005, 152, G867.	1.3	17
129	Generalized Surface Interpolation for Triangle Meshes with Feature Retention. Computer-Aided Design and Applications, 2005, 2, 193-202.	0.4	2
130	A Material Removal Rate Model for Copper Abrasive-Free CMP. Journal of the Electrochemical Society, 2005, 152, G417.	1.3	13
131	Automated synthesis of modular fixture designs using an evolutionary search algorithm. International Journal of Production Research, 2005, 43, 5047-5070.	4.9	15
132	Block Cartesian Abstraction of a Geometric Model Using Fuzzy Logic. Computer-Aided Design and Applications, 2004, 1, 293-300.	0.4	0
133	Book review of Micromachining of Engineering Materials. By J. McGeough (New York, Marcel Dekker,) Tj ETQq1 1 0.784314 rgBT /Ove 42, 213-213.	4.9	0
134	Model Compression for Design Synchronization within Distributed Environments. Computer-Aided Design and Applications, 2004, 1, 331-338.	0.4	3
135	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
136	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
137	Developing distributed applications for integrated product and process design. CAD Computer Aided Design, 2004, 36, 679-689.	1.4	46
138	Automatic solid decomposition and reduction for non-manifold geometric model generation. CAD Computer Aided Design, 2004, 36, 1357-1369.	1.4	38
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	Modeling, Analysis, and Verification of Optimal Fixturing Design. IEEE Transactions on Automation Science and Engineering, 2004, 1, 121-132.	3.4	31
141	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
142	Effect of Chilled Air on Machining Performance in End Milling. International Journal of Advanced Manufacturing Technology, 2003, 21, 787-795.	1.5	39
143	Development of an Internet-enabled interactive fixture design system. CAD Computer Aided Design, 2003, 35, 945-957.	1.4	60
144	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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145	Development of a Reference Enterprise Model for Fixture Design Information Support in Integrated Manufacturing. , 2003, , .		0
146	Effect of Minimal Quantities of Lubricant in Micro Milling. , 2002, , 309-313.		1
147	Improvement of form accuracy in hybrid machining of microstructures. Journal of Electronic Materials, 2002, 31, 1032-1038.	1.0	27
148	A study on the grinding of glass using electrolytic in-process dressing. Journal of Electronic Materials, 2002, 31, 1039-1046.	1.0	18
149	Effect of High-Pressure Coolant on Machining Performance. International Journal of Advanced Manufacturing Technology, 2002, 20, 83-91.	1.5	41
150	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
151	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
152	Evaluation of Minimal of Lubricant in End Milling. International Journal of Advanced Manufacturing Technology, 2001, 18, 235-241.	1.5	77
153	Dishing and nitride erosion of STI-CMP for different integration schemes. Journal of Electronic Materials, 2001, 30, 1478-1482.	1.0	7
154	Micro milling of pure copper. Journal of Materials Processing Technology, 2001, 116, 39-43.	3.1	150
155	A CAD integrated analysis of flatness in a form tolerance zone. CAD Computer Aided Design, 2001, 33, 853-865.	1.4	8
156	A multi-agent approach to fixture design. Journal of Intelligent Manufacturing, 2001, 12, 31-42.	4.4	23
157	Innovative use of Thiobacillus ferrooxidans for the biological machining of metals. Acta Biotechnologica, 2000, 20, 87-96.	1.0	38
158	Identification of Effective Zones for High Pressure Coolant in Milling. CIRP Annals - Manufacturing Technology, 2000, 49, 47-52.	1.7	43
159	An automated design and assembly of interference-free modular fixture setup. CAD Computer Aided Design, 2000, 32, 583-596.	1.4	48
160	Conceptual Design of Fixtures Using Machine Learning Techniques. International Journal of Advanced Manufacturing Technology, 2000, 16, 176-181.	1.5	30
161	An Integrated Approach to Collision-Free Computer-Aided Modular Fixture Design. International Journal of Advanced Manufacturing Technology, 2000, 16, 233-242.	1.5	18
162	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

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163	Automatic generation of dynamic clamping forces for machining fixtures. International Journal of Production Research, 1999, 37, 2755-2776.	4.9	25
164	A computational geometry approach to optimum clamping synthesis of machining fixtures. International Journal of Production Research, 1999, 37, 3495-3517.	4.9	27
165	Conceptual Design of Fixtures using Genetic Algorithms. International Journal of Advanced Manufacturing Technology, 1999, 15, 79-84.	1.5	48
166	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
167	Automatic recognition of design and machining features from prismatic parts. International Journal of Advanced Manufacturing Technology, 1996, 11, 136-145.	1.5	17
168	Computer-Aided Fixture Design. , 1995, , 122-154.		0
169	A Feature-Based Classification Scheme for Fixtures. CIRP Annals - Manufacturing Technology, 1992, 41, 189-192.	1.7	28
170	A rule-based system for angular tolerance charting. International Journal of Machine Tools and Manufacture, 1992, 32, 885-899.	6.2	9
171	Expert fixture-design system for an automated manufacturing environment. CAD Computer Aided Design, 1992, 24, 316-326.	1.4	71
172	A Framework for an Object/Rule-Based Automated Fixture Design System. CIRP Annals - Manufacturing Technology, 1991, 40, 147-151.	1.7	68
173	The development of an Internet-enabled semi-automated fixture design system. , 0, , .		1
174	A Review of Electrolytic In-Process Dressing (ELID) Grinding. Key Engineering Materials, 0, 404, 45-59.	0.4	21
175	A Study on Surface Generation along Nominal Cutting Direction in Elliptical Vibration Cutting. Advanced Materials Research, 0, 314-316, 1851-1856.	0.3	1
176	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
177	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
178	Convolutional neural networks for prediction of geometrical errors in incremental sheet metal forming. Journal of Intelligent Manufacturing, 0, , 1.	4.4	2