

# Sandy To

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

328 papers	4,934 citations	37 h-index	52 g-index
345 ext. papers	5,934 ext. citations	4 avg, IF	6.22 L-index

#	Paper	IF	Citations
328	A review of surface roughness generation in ultra-precision machining. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 91, 76-95	9.4	162
327	Effects of dynamic electropulsing on microstructure and elongation of a ZnAl alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2009</b> , 501, 125-132	5.3	110
326	A review of machine-tool vibration and its influence upon surface generation in ultra-precision machining. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 91, 34-42	9.4	105
325	A theoretical and experimental investigation of the tool-tip vibration and its influence upon surface generation in single-point diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2010</b> , 50, 241-252	9.4	90
324	Modelling and simulation of structure surface generation using computer controlled ultra-precision polishing. <i>Precision Engineering</i> , <b>2011</b> , 35, 574-590	2.9	87
323	Advances in ultra-precision machining of micro-structured functional surfaces and their typical applications. <i>International Journal of Machine Tools and Manufacture</i> , <b>2019</b> , 142, 16-41	9.4	81
322	Molecular dynamics modelling of brittle-ductile cutting mode transition: Case study on silicon carbide. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 88, 214-222	9.4	79
321	Ultraprecision diamond turning of aluminium single crystals. <i>Journal of Materials Processing Technology</i> , <b>1997</b> , 63, 157-162	5.3	78
320	A review of fly cutting applied to surface generation in ultra-precision machining. <i>International Journal of Machine Tools and Manufacture</i> , <b>2016</b> , 103, 13-27	9.4	73
319	A study of materials swelling and recovery in single-point diamond turning of ductile materials. <i>Journal of Materials Processing Technology</i> , <b>2006</b> , 180, 210-215	5.3	66
318	Dynamic characteristics of an aerostatic bearing spindle and its influence on surface topography in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2012</b> , 62, 1-12	9.4	65
317	Development and Repetitive-Compensated PID Control of a Nanopositioning Stage With Large-Stroke and Decoupling Property. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 3995-4005	8.9	62
316	Effect of reinforcement in ultra-precision machining of Al6061/SiC metal matrix composites. <i>Scripta Materialia</i> , <b>2002</b> , 47, 77-82	5.6	61
315	Effect of crystallographic orientation in diamond turning of copper single crystals. <i>Scripta Materialia</i> , <b>2000</b> , 42, 937-945	5.6	61
314	A theoretical and experimental investigation of surface generation in diamond turning of an Al6061/SiCp metal matrix composite. <i>International Journal of Mechanical Sciences</i> , <b>2001</b> , 43, 2047-2068	5.5	59
313	A kinematics and experimental analysis of form error compensation in ultra-precision machining. <i>International Journal of Machine Tools and Manufacture</i> , <b>2008</b> , 48, 1408-1419	9.4	58
312	The mechanism of ductile deformation in ductile regime machining of 6H SiC. <i>Computational Materials Science</i> , <b>2015</b> , 98, 178-188	3.2	57

311	Large-scale fabrication of micro-lens array by novel end-fly-cutting-servo diamond machining. <i>Optics Express</i> , <b>2015</b> , 23, 20593-604	3.3	55
310	Investigation on the influence of tool-tip vibration on surface roughness and its representative measurement in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 69, 20-29	9.4	55
309	A theoretical and experimental investigation into five-DOF dynamic characteristics of an aerostatic bearing spindle in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 71, 1-10	9.4	54
308	Theoretical and experimental investigation on the novel end-fly-cutting-servo diamond machining of hierarchical micro-nanostructures. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 94, 15-25	9.4	52
307	A multi-perspective knowledge-based system for customer service management. <i>Expert Systems With Applications</i> , <b>2003</b> , 24, 457-470	7.8	52
306	Influence of material swelling on surface roughness in diamond turning of single crystals. <i>Materials Science and Technology</i> , <b>2001</b> , 17, 102-108	1.5	51
305	Theoretical and experimental analysis of nano-surface generation in ultra-precision raster milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2008</b> , 48, 1090-1102	9.4	50
304	Diamond tool wear in ultra-precision machining. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2017</b> , 88, 613-641	3.2	49
303	Improvement on load performance of externally pressurized gas journal bearings by opening pressure-equalizing grooves. <i>Tribology International</i> , <b>2014</b> , 73, 156-166	4.9	49
302	Cutting forces in fast-/slow tool servo diamond turning of micro-structured surfaces. <i>International Journal of Machine Tools and Manufacture</i> , <b>2019</b> , 136, 62-75	9.4	48
301	Optical design of a freeform TIR lens for LED streetlight. <i>Optik</i> , <b>2010</b> , 121, 1761-1765	2.5	44
300	Materials induced vibration in ultra-precision machining. <i>Journal of Materials Processing Technology</i> , <b>1999</b> , 89-90, 318-325	5.3	43
299	A Microplasticity Analysis of Micro-Cutting Force Variation in Ultra-Precision Diamond Turning. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , <b>2002</b> , 124, 170-177	3.3	41
298	The effects of spindle vibration on surface generation in ultra-precision raster milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 71, 52-56	9.4	39
297	Electropulsing-induced phase transformations in a Zn-Al-based alloy. <i>Journal of Materials Research</i> , <b>2009</b> , 24, 2661-2669	2.5	39
296	Design, Analysis, and Realization of a Novel Piezoelectrically Actuated Rotary Spatial Vibration System for Micro-/Nanomachining. <i>IEEE/ASME Transactions on Mechatronics</i> , <b>2017</b> , 22, 1227-1237	5.5	38
295	Optimum Design of a Piezo-Actuated Triaxial Compliant Mechanism for Nanocutting. <i>IEEE Transactions on Industrial Electronics</i> , <b>2018</b> , 65, 6362-6371	8.9	38
294	An investigation into material-induced surface roughness in ultra-precision milling. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2013</b> , 68, 607-616	3.2	38

293	Serrated chip formation and their adiabatic analysis by using the constitutive model of titanium alloy in high speed cutting. <i>Journal of Alloys and Compounds</i> , <b>2015</b> , 629, 368-373	5.7	37
292	An investigation into surface generation in ultra-precision raster milling. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 4178-4185	5.3	37
291	Effects of non-amorphizing hydrogen ion implantation on anisotropy in micro cutting of silicon. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 225, 439-450	5.3	35
290	Enhancement of the machinability of silicon by hydrogen ion implantation for ultra-precision micro-cutting. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 74, 50-55	9.4	34
289	Modelling and simulation of freeform surface generation in ultra-precision raster milling. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2006</b> , 220, 1787-1801	2.4	33
288	Anisotropy of surface roughness in diamond turning of brittle single crystals. <i>Materials and Manufacturing Processes</i> , <b>2002</b> , 17, 251-267	4.1	33
287	Adaptive tool servo diamond turning for enhancing machining efficiency and surface quality of freeform optics. <i>Optics Express</i> , <b>2015</b> , 23, 20234-48	3.3	32
286	Unsteady flow structures around a high-drag Ahmed body. <i>Journal of Fluid Mechanics</i> , <b>2015</b> , 777, 291-326	5.7	32
285	A theoretical and experimental study of surface generation under spindle vibration in ultra-precision raster milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 75, 36-45	9.4	32
284	Analysis of surface generation in the ultraprecision polishing of freeform surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2010</b> , 224, 59-73	2.4	32
283	An integrated form characterization method for measuring ultra-precision freeform surfaces. <i>International Journal of Machine Tools and Manufacture</i> , <b>2007</b> , 47, 81-91	9.4	32
282	Rotary spatial vibration-assisted diamond cutting of brittle materials. <i>Precision Engineering</i> , <b>2016</b> , 44, 211-219	2.9	31
281	Tool life enhancement in dry diamond turning of titanium alloys using an eddy current damping and a magnetic field for sustainable manufacturing. <i>Journal of Cleaner Production</i> , <b>2017</b> , 168, 929-939	10.3	31
280	Effect of material anisotropy on shear angle prediction in metal cutting—mesoplasticity approach. <i>International Journal of Mechanical Sciences</i> , <b>2003</b> , 45, 1739-1749	5.5	31
279	Finite element modelling of shear angle and cutting force variation induced by material anisotropy in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 75, 82-86	9.4	30
278	Cutting Characteristics of Zr-Based Bulk Metallic Glass. <i>Journal of Materials Science and Technology</i> , <b>2015</b> , 31, 153-158	9.1	29
277	The relation between chip morphology and tool wear in ultra-precision raster milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2014</b> , 80-81, 11-17	9.4	29
276	A theoretical and experimental investigation into multimode tool vibration with surface generation in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2013</b> , 72, 32-36	9.4	29

275	Dynamic modelling of shear band formation and tool-tip vibration in ultra-precision diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2011</b> , 51, 512-519	9.4	29
274	Relationships of tool wear characteristics to cutting mechanics, chip formation, and surface quality in ultra-precision fly cutting. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 83, 133-144	3.2	28
273	Novel tool wear monitoring method in ultra-precision raster milling using cutting chips. <i>Precision Engineering</i> , <b>2014</b> , 38, 555-560	2.9	28
272	Birefringence techniques for the characterization of residual stresses in injection-moulded micro-lens arrays. <i>Polymer Testing</i> , <b>2009</b> , 28, 709-714	4.5	28
271	Effect of Static Electropulsing on Microstructure and Elongation of a Zn-Al Alloy (ZA22). <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2011</b> , 42, 1933-1940	2.3	27
270	Elastic strain induced shear bands in the microcutting process. <i>International Journal of Machine Tools and Manufacture</i> , <b>2010</b> , 50, 9-18	9.4	27
269	Orientation changes of aluminium single crystals in ultra-precision diamond turning. <i>Journal of Materials Processing Technology</i> , <b>2003</b> , 140, 346-351	5.3	26
268	Reduction of material swelling and recovery of titanium alloys in diamond cutting by magnetic field assistance. <i>Journal of Alloys and Compounds</i> , <b>2017</b> , 722, 525-531	5.7	25
267	A theoretical and experimental study of spindle imbalance induced forced vibration and its effect on surface generation in diamond turning. <i>International Journal of Machine Tools and Manufacture</i> , <b>2018</b> , 133, 61-71	9.4	25
266	Optimal design and experimental validation of sound absorbing multilayer microperforated panel with constraint conditions. <i>Applied Acoustics</i> , <b>2019</b> , 146, 334-344	3.1	25
265	Numerical and experimental analysis of heat transfer in turbulent flow channels with two-dimensional ribs. <i>Applied Thermal Engineering</i> , <b>2015</b> , 75, 623-634	5.8	24
264	Theoretical and experimental investigation into non-uniformity of surface generation in micro-milling. <i>International Journal of Mechanical Sciences</i> , <b>2018</b> , 140, 313-324	5.5	24
263	A study of the cutting-induced heating effect on the machined surface in ultra-precision raster milling of 6061 Al alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2010</b> , 51, 69-78	3.2	24
262	A study of regularly spaced shear bands and morphology of serrated chip formation in microcutting process. <i>Scripta Materialia</i> , <b>2010</b> , 63, 227-230	5.6	24
261	Static Electropulsing-Induced Microstructural Changes and Their Effect on the Ultra-Precision Machining of Cold-Rolled AZ91 Alloy. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , <b>2012</b> , 43, 1341-1346	2.3	23
260	Surface damage mechanism of monocrystalline silicon during single point diamond grinding. <i>Wear</i> , <b>2018</b> , 396-397, 48-55	3.5	23
259	Diamond wheel wear mechanism and its impact on the surface generation in parallel diamond grinding of RB-SiC/Si. <i>Diamond and Related Materials</i> , <b>2017</b> , 74, 16-23	3.5	22
258	Effects of current density on electropulsing-induced phase transformations in a Zn-Al based alloy. <i>Applied Physics A: Materials Science and Processing</i> , <b>2009</b> , 96, 939-944	2.6	22

257	Ageing characteristics of cast Zn-Al based alloy (ZnAl7Cu3). <i>Journal of Materials Science</i> , <b>2003</b> , 38, 1945-1952	1.9	22
256	Active drag reduction of a high-drag Ahmed body based on steady blowing. <i>Journal of Fluid Mechanics</i> , <b>2018</b> , 856, 351-396	3.7	22
255	Amorphization and C segregation based surface generation of Reaction-Bonded SiC/Si composites under micro-grinding. <i>International Journal of Machine Tools and Manufacture</i> , <b>2015</b> , 95, 78-81	9.4	21
254	Effects of Dynamic Electropulsing on Phase Transformation of a Zn-Al Based Alloy. <i>Materials Transactions</i> , <b>2009</b> , 50, 1105-1112	1.3	21
253	Design and Control of a Piezoelectrically Actuated Fast Tool Servo for Diamond Turning of Microstructured Surfaces. <i>IEEE Transactions on Industrial Electronics</i> , <b>2020</b> , 67, 6688-6697	8.9	21
252	Low Frequency Sound Absorption by Optimal Combination Structure of Porous Metal and Microperforated Panel. <i>Applied Sciences (Switzerland)</i> , <b>2019</b> , 9, 1507	2.6	20
251	Feasibility study of the novel quasi-elliptical tool servo for vibration suppression in the turning of micro-lens arrays. <i>International Journal of Machine Tools and Manufacture</i> , <b>2017</b> , 122, 98-105	9.4	20
250	Analysis of surface generation in ultra-precision machining with a fast tool servo. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2010</b> , 224, 1351-1367	2.4	20
249	Numerical simulation of residual stress and birefringence in the precision injection molding of plastic microlens arrays. <i>International Communications in Heat and Mass Transfer</i> , <b>2009</b> , 36, 213-219	5.8	20
248	Computer simulation of single-point diamond turning using finite element method. <i>Journal of Materials Processing Technology</i> , <b>2005</b> , 167, 549-554	5.3	20
247	Investigation on the maximum strain rate sensitivity ( m ) superplastic deformation of Mg-Li based alloy. <i>Materials and Design</i> , <b>2016</b> , 112, 151-159	8.1	20
246	Virtual spindle based tool servo diamond turning of discontinuously structured microoptics arrays. <i>CIRP Annals - Manufacturing Technology</i> , <b>2016</b> , 65, 475-478	4.9	19
245	A novel spindle inclination error identification and compensation method in ultra-precision raster milling. <i>International Journal of Machine Tools and Manufacture</i> , <b>2014</b> , 78, 8-17	9.4	19
244	Effect of Workpiece Material on Surface Roughness in Ultraprecision Raster Milling. <i>Materials and Manufacturing Processes</i> , <b>2012</b> , 27, 1022-1028	4.1	19
243	Characterization of surface generation of optical microstructures using a pattern and feature parametric analysis method. <i>Precision Engineering</i> , <b>2010</b> , 34, 755-766	2.9	19
242	Measuring ultra-precision freeform surfaces using a robust form characterization method. <i>Measurement Science and Technology</i> , <b>2006</b> , 17, 488-494	2	19
241	Effect of cutting parameters on heat generation in ultra-precision milling of aluminum alloy 6061. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2015</b> , 80, 1265-1275	3.2	18
240	A Study of Mechanics in Brittle?Ductile Cutting Mode Transition. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	18



239	Micro-structural changes of ZnAl alloy influencing micro-topographical surface in micro-cutting. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2014</b> , 72, 9-15	3.2	18
238	Inhibiting the Leidenfrost effect above 1,000 °C for sustained thermal cooling.. <i>Nature</i> , <b>2022</b> , 601, 568-572	5.4	18
237	External force estimation of a piezo-actuated compliant mechanism based on a fractional order hysteresis model. <i>Mechanical Systems and Signal Processing</i> , <b>2018</b> , 110, 296-306	7.8	17
236	Sustainable manufacturing of ultra-precision machining of titanium alloys using a magnetic field and its sustainability assessment. <i>Sustainable Materials and Technologies</i> , <b>2018</b> , 16, 38-46	5.3	17
235	Molecular Dynamics Simulation for Ultrafine Machining. <i>Materials and Manufacturing Processes</i> , <b>2006</b> , 21, 393-397	4.1	17
234	Deformation behaviour of aluminium single crystals in ultraprecision diamond turning. <i>Journal of Materials Processing Technology</i> , <b>2001</b> , 113, 296-300	5.3	17
233	Redundantly piezo-actuated XYZ compliant mechanism for nano-positioning featuring simple kinematics, bi-directional motion and enlarged workspace. <i>Smart Materials and Structures</i> , <b>2016</b> , 25, 125002	3.4	17
232	Novel end-fly-cutting-servo system for deterministic generation of hierarchical micro/nanostructures. <i>CIRP Annals - Manufacturing Technology</i> , <b>2015</b> , 64, 133-136	4.9	16
231	Effects of electropulsing treatment on material properties and ultra-precision machining of titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2016</b> , 82, 2029-2036	3.2	16
230	Surface damage mechanism of WC/Co and RB-SiC/Si composites under high spindle speed grinding (HSSG). <i>Materials and Design</i> , <b>2016</b> , 92, 378-386	8.1	16
229	A novel ductile machining model of single-crystal silicon for freeform surfaces with large azimuthal height variation by ultra-precision fly cutting. <i>International Journal of Machine Tools and Manufacture</i> , <b>2018</b> , 135, 1-11	9.4	16
228	Study of the workspace of a class of universal joints. <i>Mechanism and Machine Theory</i> , <b>2014</b> , 73, 244-258	4	16
227	Material removal and micro-roughness in fluid-assisted smoothing of reaction-bonded silicon carbide surfaces. <i>Journal of Materials Processing Technology</i> , <b>2009</b> , 209, 4563-4567	5.3	16
226	Measuring optical freeform surfaces using a coupled reference data method. <i>Measurement Science and Technology</i> , <b>2007</b> , 18, 2252-2260	2	16
225	Deformation band formation in metal cutting. <i>Scripta Materialia</i> , <b>1999</b> , 40, 439-443	5.6	16
224	One-step generation of hybrid micro-optics with high-frequency diffractive structures on infrared materials by ultra-precision side milling. <i>Optics Express</i> , <b>2018</b> , 26, 28161-28177	3.3	16
223	Development of thin sound absorber by parameter optimization of multilayer compressed porous metal with rear cavity. <i>Applied Acoustics</i> , <b>2020</b> , 159, 107071	3.1	16
222	A novel diamond micro-/nano-machining process for the generation of hierarchical micro-/nano-structures. <i>Journal of Micromechanics and Microengineering</i> , <b>2016</b> , 26, 035009	2	15

221	A study of the fabrication of v-groove structure in ultra-precision milling. <i>International Journal of Computer Integrated Manufacturing</i> , <b>2014</b> , 27, 986-996	4.3	15
220	Ultra-precision raster milling-induced phase decomposition and plastic deformation at the surface of a ZnAl-based alloy. <i>Scripta Materialia</i> , <b>2010</b> , 62, 101-104	5.6	15
219	An investigation on surface finishing in ultra-precision raster milling of aluminum alloy 6061. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2015</b> , 229, 1289-1301	2.4	14
218	Effects of Current Density on Elongation of an Electropulsing Treated Zn-Al Based Alloy. <i>Materials Transactions</i> , <b>2009</b> , 50, 2772-2777	1.3	14
217	Influence of initial texture on formability of aluminum sheet metal by crystal plasticity FE simulation. <i>Journal of Materials Processing Technology</i> , <b>2007</b> , 192-193, 397-403	5.3	14
216	CHARACTERISTICS OF MICROCUTTING FORCE VARIATION IN ULTRAPRECISION DIAMOND TURNING. <i>Materials and Manufacturing Processes</i> , <b>2001</b> , 16, 177-193	4.1	14
215	Evaluation for tool flank wear and its influences on surface roughness in ultra-precision raster fly cutting. <i>International Journal of Mechanical Sciences</i> , <b>2016</b> , 118, 125-134	5.5	14
214	Impact of material microstructure and diamond grit wear on surface finish in micro-grinding of RB-SiC/Si and WC/Co carbides. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2015</b> , 51, 258-263	4.1	13
213	An investigation of resolved shear stress on activation of slip systems during ultraprecision rotary cutting of local anisotropic Ti-6Al-4V alloy: Models and experiments. <i>International Journal of Machine Tools and Manufacture</i> , <b>2018</b> , 134, 69-78	9.4	13
212	Efficient fabrication of gradient nanostructure layer on surface of commercial pure copper by coupling electric pulse and ultrasonics treatment. <i>Journal of Alloys and Compounds</i> , <b>2018</b> , 764, 51-61	5.7	13
211	Modeling and characterization of generation of 3D micro-structured surfaces with self-cleaning and optical functions. <i>Optik</i> , <b>2013</b> , 124, 2848-2853	2.5	13
210	Wear characteristics of diamond tool in ultraprecision raster milling. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2009</b> , 44, 638-647	3.2	13
209	Friction-induced fluctuation of cutting forces in the diamond turning of aluminium single crystals. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2003</b> , 217, 615-631	2.4	13
208	A theoretical and experimental investigation of cutting forces and spring back behaviour of Ti6Al4V alloy in ultraprecision machining of microgrooves. <i>International Journal of Mechanical Sciences</i> , <b>2020</b> , 169, 105315	5.5	13
207	Effects of eco-friendly cooling strategy on machining performance in micro-scale diamond turning of Ti6Al4V. <i>Journal of Cleaner Production</i> , <b>2020</b> , 243, 118526	10.3	13
206	Tuned diamond turning of micro-structured surfaces on brittle materials for the improvement of machining efficiency. <i>CIRP Annals - Manufacturing Technology</i> , <b>2019</b> , 68, 559-562	4.9	12
205	Design and control of a new 3-PUU fast tool servo for complex microstructure machining. <i>International Journal of Advanced Manufacturing Technology</i> , <b>2018</b> , 94, 3503-3517	3.2	12
204	Surface generation mechanism of WC/Co and RB-SiC/Si composites under high spindle speed grinding (HSSG). <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 56, 123-131	4.1	12



203	Effect of Machining Parameters and Tool Wear on Surface Uniformity in Micro-Milling. <i>Micromachines</i> , <b>2018</b> , 9,	3.3	12
202	A study of the relevant effects on the maximum residual stress in the precision injection moulding of microlens arrays. <i>Journal of Micromechanics and Microengineering</i> , <b>2010</b> , 20, 035033	2	12
201	Characterization of freeform optics in automotive lighting systems using an Optical Geometrical Feature Based Method. <i>Optik</i> , <b>2011</b> , 122, 358-363	2.5	12
200	An experimental investigation of surface generation using an integrated ultra-precision polishing process and different polishing trajectories. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , <b>2012</b> , 226, 203-220	2.4	12
199	A novel robust Gaussian filtering method for the characterization of surface generation in ultra-precision machining. <i>Precision Engineering</i> , <b>2006</b> , 30, 421-430	2.9	12
198	Ultra-precision machining induced surface structural changes of ZnAl alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2002</b> , 325, 497-502	5.3	12
197	Tensile deformation-induced phase transformation in cast ZnAl-based alloy (ZnAl7Cu3). <i>Materials Research Bulletin</i> , <b>2003</b> , 38, 1851-1858	5.1	12
196	Use of EBSD to study stress induced microstructural changes in ZnAl based alloy. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2003</b> , 348, 6-14	5.3	12
195	Study on Influence of Ultrasonic Vibration on the Ultra-Precision Turning of Ti6Al4V Alloy Based on Simulation and Experiment. <i>IEEE Access</i> , <b>2019</b> , 7, 33640-33651	3.5	12
194	A systematic investigation on the diamond wear mechanism during the dry scratching of WC/Co. <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2018</b> , 70, 184-190	4.1	11
193	Structural evolution in films of alloy Zn70Al27Cu3 (ZA27). <i>Applied Surface Science</i> , <b>2005</b> , 242, 236-244	6.7	11
192	Fast-tool-servo micro-grooving freeform surfaces with embedded metrology. <i>CIRP Annals - Manufacturing Technology</i> , <b>2020</b> , 69, 505-508	4.9	11
191	Effects of binder addition on the surface generation mechanism of WC/Co during high spindle speed grinding (HSSG). <i>International Journal of Refractory Metals and Hard Materials</i> , <b>2016</b> , 59, 32-39	4.1	11
190	A novel surface quality evaluation method in ultra-precision raster milling using cutting chips. <i>Journal of Materials Processing Technology</i> , <b>2015</b> , 219, 328-338	5.3	10
189	Active control of residual tool marks for freeform optics functionalization by novel biaxial servo assisted fly cutting. <i>Applied Optics</i> , <b>2015</b> , 54, 7656-62	0.2	10
188	Ductile and brittle transition behavior of titanium alloys in ultra-precision machining. <i>Scientific Reports</i> , <b>2018</b> , 8, 3934	4.9	10
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