

Steven Y Liang

List of Publications by Citations

Source: <https://exaly.com/author-pdf/8546735/steven-y-liang-publications-by-citations.pdf>
Version: 2024-04-10

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.
The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

252 papers	3,916 citations	31 h-index	49 g-index
263 ext. papers	4,762 ext. citations	3 avg, IF	6.46 L-index

#	Paper	IF	Citations
252	Predictive modeling of surface roughness in grinding. <i>International Journal of Machine Tools and Manufacture</i> , 2003 , 43, 755-761	9.4	170
251	CBN tool wear in hard turning: a survey on research progresses. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 35, 443-453	3.2	129
250	Chatter stability of a slender cutting tool in turning with tool wear effect. <i>International Journal of Machine Tools and Manufacture</i> , 1998 , 38, 315-327	9.4	109
249	Modeling of CBN Tool Flank Wear Progression in Finish Hard Turning. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 98-106	3.3	103
248	Grinding force and power modeling based on chip thickness analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 33, 449-459	3.2	102
247	Inverse determination of Johnson-Cook model constants of ultra-fine-grained titanium based on chip formation model and iterative gradient search. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 1131-1140	3.2	85
246	Modeling of Cutting Forces Under Hard Turning Conditions Considering Tool Wear Effect. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2005 , 127, 262-270	3.3	65
245	Analytical Modeling of In-Process Temperature in Powder Bed Additive Manufacturing Considering Laser Power Absorption, Latent Heat, Scanning Strategy, and Powder Packing. <i>Materials</i> , 2019 , 12,	3.5	63
244	Modeling of residual stresses in milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 65, 717-733	3.2	61
243	Modeling of cutting forces in near dry machining under tool wear effect. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 1292-1301	9.4	60
242	Force modeling of micro-grinding incorporating crystallographic effects. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 1658-1667	9.4	60
241	Prediction of machining-induced phase transformation and grain growth of Ti-6Al-4 V alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 859-866	3.2	58
240	Surface roughness modeling for grinding of Silicon Carbide ceramics considering co-existence of brittleness and ductility. <i>International Journal of Mechanical Sciences</i> , 2017 , 133, 167-177	5.5	50
239	Analytical modeling of 3D temperature distribution in selective laser melting of Ti-6Al-4V considering part boundary conditions. <i>Journal of Manufacturing Processes</i> , 2019 , 44, 319-326	5	49
238	High-speed grinding of HIP-SiC ceramics on transformation of microscopic features. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 1913-1921	3.2	49
237	Inverse identification of Johnson-Cook material constants based on modified chip formation model and iterative gradient search using temperature and force measurements. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 2865-2876	3.2	48
236	Force modelling in shallow cuts with large negative rake angle and large nose radius toolsApplication to hard turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2003 , 22, 626-632	3.2	48

235	Study on high-speed grinding mechanisms for quality and process efficiency. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 70, 813-819	3.2	45
234	Temperature Effects on Grinding Residual Stress. <i>Procedia CIRP</i> , 2014 , 14, 2-6	1.8	45
233	CUTTING TEMPERATURE MODELING BASED ON NON-UNIFORM HEAT INTENSITY AND PARTITION RATIO. <i>Machining Science and Technology</i> , 2005 , 9, 301-323	2	44
232	Thermal Modeling of Temperature Distribution in Metal Additive Manufacturing Considering Effects of Build Layers, Latent Heat, and Temperature-Sensitivity of Material Properties. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 63	2.2	44
231	Model-driven determination of Johnson-Cook material constants using temperature and force measurements. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 1053-1060	3.2	43
230	Predictive Modeling of Machining Temperatures with Force-Temperature Correlation Using Cutting Mechanics and Constitutive Relation. <i>Materials</i> , 2019 , 12,	3.5	42
229	Analytical modeling of machining forces of ultra-fine-grained titanium. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 627-636	3.2	42
228	Performance profiling of minimum quantity lubrication in machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2007 , 35, 226-233	3.2	40
227	Workpiece dynamic analysis and prediction during chatter of turning process. <i>Mechanical Systems and Signal Processing</i> , 2008 , 22, 1481-1494	7.8	40
226	Effect of phase transition on micro-grinding-induced residual stress. <i>Journal of Materials Processing Technology</i> , 2020 , 281, 116647	5.3	37
225	Analytical modeling of residual stress and the induced deflection of a milled thin plate. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 75, 455-463	3.2	37
224	Prediction of grinding force for brittle materials considering co-existing of ductility and brittleness. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 87, 1967-1975	3.2	34
223	Analytical modeling of lack-of-fusion porosity in metal additive manufacturing. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	31
222	Predictive modeling of residual stress in minimum quantity lubrication machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2014 , 70, 2159-2168	3.2	31
221	Analytical modeling of part porosity in metal additive manufacturing. <i>International Journal of Mechanical Sciences</i> , 2020 , 172, 105428	5.5	31
220	Material microstructure affected machining: a review. <i>Manufacturing Review</i> , 2017 , 4, 5	1.4	30
219	Microstructure Effects on Cutting Forces and Flow Stress in Ultra-Precision Machining of Polycrystalline Brittle Materials. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015 , 137,	3.3	30
218	Heat Source Modeling in Selective Laser Melting. <i>Materials</i> , 2019 , 12,	3.5	30

217	A comparative study of analytical thermal models to predict the orthogonal cutting temperature of AISI 1045 steel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 3109-3119	3.2	30
216	Prediction of Temperature Distribution in Orthogonal Machining Based on the Mechanics of the Cutting Process Using a Constitutive Model. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 37	2.2	29
215	Analytical modeling of transient temperature in powder feed metal additive manufacturing during heating and cooling stages. <i>Applied Physics A: Materials Science and Processing</i> , 2019 , 125, 1	2.6	29
214	The effects of minimum quantity lubrication (MQL) on machining force, temperature, and residual stress. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 2443-2451	1.7	29
213	Modelling of CBN tool crater wear in finish hard turning. <i>International Journal of Advanced Manufacturing Technology</i> , 2004 , 24, 632-639	3.2	29
212	Force modeling of microscale grinding process incorporating thermal effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 44, 476-486	3.2	28
211	Evolutionary Optimization of Machining Processes. <i>Journal of Intelligent Manufacturing</i> , 2006 , 17, 203-215	1.7	27
210	Model for the prediction of 3D surface topography and surface roughness in micro-milling Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 2043-2056	3.2	26
209	A modified analytical cutting force prediction model under the tool flank wear effect in micro-milling nickel-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 3709-3716	3.2	25
208	Heat affected zone in the laser-assisted milling of Inconel 718. <i>Journal of Manufacturing Processes</i> , 2017 , 30, 141-147	5	25
207	Analytical modeling of post-printing grain size in metal additive manufacturing. <i>Optics and Lasers in Engineering</i> , 2020 , 124, 105805	4.6	25
206	Modeling of Ti-6Al-4V machining force considering material microstructure evolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 2673-2680	3.2	24
205	Force modeling of Inconel 718 laser-assisted end milling under recrystallization effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 92, 2965-2974	3.2	24
204	Analytical modeling of part distortion in metal additive manufacturing. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 49-57	3.2	23
203	Coupled thermal and mechanical analyses of micro-milling Inconel 718. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1112-1126	2.4	23
202	Long Range Dependence Prognostics for Bearing Vibration Intensity Chaotic Time Series. <i>Entropy</i> , 2016 , 18, 23	2.8	23
201	Maraging steel phase transformation in high strain rate grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 711-718	3.2	22
200	Multi-procedure design optimization and analysis of mesoscale machine tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2011 , 56, 1-12	3.2	22

199	Modeling of the Environmental Effect of Cutting Fluid□ . <i>Tribology Transactions</i> , 1999 , 42, 168-173	1.8	22
198	Residual stress modeling in minimum quantity lubrication grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 83, 743-751	3.2	21
197	A critical energy model for brittleductile transition in grinding considering wheel speed and chip thickness effects. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2016 , 230, 1372-1380	2.4	21
196	Effect of Cutting Conditions on Tool Performance in CBN Hard Turning. <i>Journal of Manufacturing Processes</i> , 2005 , 7, 10-16	5	21
195	Finite element simulation of residual stress in machining of Ti-6Al-4V with a microstructural consideration. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1103-1111	2.4	21
194	Advanced Diagnostic and Prognostic Techniques for Rolling Element Bearings. <i>Springer Series in Advanced Manufacturing</i> , 2006 , 137-165	0.9	21
193	Experimental Investigation of Residual Stress in Minimum Quantity Lubrication Grinding of AISI 1018 Steel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016 , 138,	3.3	20
192	Analytical Thermal Modeling of Metal Additive Manufacturing by Heat Sink Solution. <i>Materials</i> , 2019 , 12,	3.5	20
191	Predictive Modeling of Surface Roughness in Grinding of Ceramics. <i>Machining Science and Technology</i> , 2015 , 19, 325-338	2	19
190	Turning induced residual stress prediction of AISI 4130 considering dynamic recrystallization. <i>Machining Science and Technology</i> , 2018 , 22, 507-521	2	19
189	Analytical modeling of in-process temperature in powder feed metal additive manufacturing considering heat transfer boundary condition. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2020 , 7, 585-593	3.8	19
188	Analytical temperature predictive modeling and non-linear optimization in machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 1557-1566	3.2	19
187	Floor surface roughness model considering tool vibration in the process of micro-milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 94, 4415-4425	3.2	19
186	Prognosis of Bearing Degradation Using Gradient Variable Forgetting Factor RLS Combined With Time Series Model. <i>IEEE Access</i> , 2018 , 6, 10986-10995	3.5	18
185	Predictive modeling of machining residual stresses considering tool edge effects. <i>Production Engineering</i> , 2013 , 7, 391-400	1.9	18
184	Analytical modeling of in-situ deformation of part and substrate in laser cladding additive manufacturing of Inconel 625. <i>Journal of Manufacturing Processes</i> , 2020 , 49, 135-140	5	18
183	Three-dimensional semi-elliptical modeling of melt pool geometry considering hatch spacing and time spacing in metal additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 532-543	5	17
182	Physics-Embedded Machine Learning: Case Study with Electrochemical Micro-Machining. <i>Machines</i> , 2017 , 5, 4	2.9	17

181	Inverse analysis of residual stress in orthogonal cutting. <i>Journal of Manufacturing Processes</i> , 2019 , 38, 462-471	5	17
180	Prediction of lack-of-fusion porosity in laser powder-bed fusion considering boundary conditions and sensitivity to laser power absorption. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 61-70	3.2	17
179	Part Functionality Alterations Induced by Changes of Surface Integrity in Metal Milling Process: A Review. <i>Applied Sciences (Switzerland)</i> , 2018 , 8, 2550	2.6	17
178	An analytical modeling for process parameter planning in the machining of Ti-6Al-4V for force specifications using an inverse analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 98, 2347-2355	3.2	17
177	Analytical Modeling of the Temperature Using Uniform Moving Heat Source in Planar Induction Heating Process. <i>Applied Sciences (Switzerland)</i> , 2019 , 9, 1445	2.6	16
176	Constitutive modeling of ultra-fine-grained titanium flow stress for machining temperature prediction. <i>Bio-Design and Manufacturing</i> , 2019 , 2, 153-160	4.7	16
175	Analytical model for force prediction in laser-assisted milling of IN718. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 2935-2942	3.2	16
174	A generalised model of milling forces. <i>International Journal of Advanced Manufacturing Technology</i> , 1998 , 14, 160-171	3.2	16
173	Analytical prediction of temperature in laser-assisted milling with laser preheating and machining effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 100, 3185-3195	3.2	16
172	Residual stress prediction for turning of Ti-6Al-4V considering the microstructure evolution. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 109-117	2.4	16
171	Microstructure-sensitive flow stress modeling for force prediction in laser assisted milling of Inconel 718. <i>Manufacturing Review</i> , 2017 , 4, 6	1.4	15
170	Inverse analysis of the cutting force in laser-assisted milling on Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 96, 905-914	3.2	15
169	Temperature prediction in Inconel 718 milling with microstructure evolution. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 95, 4607-4621	3.2	15
168	Detection of weak fault using sparse empirical wavelet transform for cyclic fault. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 1195-1201	3.2	15
167	Analytical modeling of residual stress in direct metal deposition considering scan strategy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 4105-4121	3.2	14
166	Multiple Faults Detection for Rotating Machinery Based on Bicomponent Sparse Low-Rank Matrix Separation Approach. <i>IEEE Access</i> , 2018 , 6, 20242-20254	3.5	14
165	Empirical modeling of dynamic grinding force based on process analysis. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 3395-3405	3.2	14
164	Chatter Stability of Micro-Milling by Considering the Centrifugal Force and Gyroscopic Effect of the Spindle. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	14

163	CEEMD-assisted kernel support vector machines for bearing diagnosis. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 3063-3070	3.2	14
162	Physics-based analysis of minimum quantity lubrication grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 79, 1659-1670	3.2	13
161	Incipient Fault Diagnosis of Rolling Bearings Based on Impulse-Step Impact Dictionary and Re-Weighted Minimizing Nonconvex Penalty Lq Regular Technique. <i>Entropy</i> , 2017 , 19, 421	2.8	13
160	Evaluation of an Analytical Model in the Prediction of Machining Temperature of AISI 1045 Steel and AISI 4340 Steel. <i>Journal of Manufacturing and Materials Processing</i> , 2018 , 2, 74	2.2	13
159	Physics-based intelligent prognosis for rolling bearing with fault feature extraction. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 611-620	3.2	12
158	Study of the Shear Strain and Shear Strain Rate Progression During Titanium Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	12
157	Phase Transition at High Heating Rate and Strain Rate During Maraging Steel C250 Grinding. <i>Materials and Manufacturing Processes</i> , 2016 , 31, 1763-1769	4.1	12
156	CEEMD-assisted bearing degradation assessment using tight clustering. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 1259-1267	3.2	12
155	Plastic deformation depth modeling on grinding of gamma Titanium Aluminides. <i>International Journal of Advanced Manufacturing Technology</i> , 2010 , 49, 89-95	3.2	12
154	SIMULTANEOUS MEASUREMENT OF THE THERMAL AND TRIBOLOGICAL EFFECTS OF CUTTING FLUID. <i>Machining Science and Technology</i> , 1999 , 3, 221-237	2	12
153	Residual stress prediction in laser-assisted milling considering recrystallization effects. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 393-402	3.2	12
152	Investigation on the influence of material crystallographic orientation on grinding force in the micro-grinding of single-crystal copper with single grit. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 3347-3355	3.2	11
151	Flank tool wear prediction of laser-assisted milling. <i>Journal of Manufacturing Processes</i> , 2019 , 43, 292-299		11
150	The effects of dynamic evolution of microstructure on machining forces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018 , 232, 2677-2681	2.4	11
149	Maraging steel 3J33 phase transformation during micro-grinding. <i>Materials Letters</i> , 2016 , 164, 217-220	3.3	11
148	Investigation of the grinding temperature and energy partition during cylindrical grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 1767-1778	3.2	11
147	Materials-affected manufacturing. <i>Manufacturing Letters</i> , 2013 , 1, 74-77	4.5	11
146	Process Optimization of Finish Turning of Hardened Steels. <i>Materials and Manufacturing Processes</i> , 2007 , 22, 107-113	4.1	11

145	Adaptive online dictionary learning for bearing fault diagnosis. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 101, 195-202	3.2	11
144	Model-based sensitivity analysis of machining-induced residual stress under minimum quantity lubrication. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017 , 231, 1528-1541	2.4	10
143	Tool Point Frequency Response Prediction for Micromilling by Receptance Coupling Substructure Analysis. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017 , 139,	3.3	10
142	Analytical Modeling of Residual Stress in Laser Powder Bed Fusion Considering Part's Boundary Condition. <i>Crystals</i> , 2020 , 10, 337	2.3	10
141	Simultaneous optimization of fixture and cutting parameters of thin-walled workpieces based on particle swarm optimization algorithm. <i>Simulation</i> , 2018 , 94, 67-76	1.2	10
140	Cutting parameters optimization for MRR under the constraints of surface roughness and cutter breakage in micro-milling process. <i>Journal of Mechanical Science and Technology</i> , 2018 , 32, 3379-3388	1.6	10
139	Predicting the surface hardness of micro-milled nickel-base superalloy Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 1283-1292	3.2	10
138	Adaptive Prognostics for Rotary Machineries. <i>Procedia Engineering</i> , 2014 , 86, 852-857		10
137	Prediction of polycrystalline materials texture evolution in machining via Viscoplastic Self-Consistent modeling. <i>Journal of Manufacturing Processes</i> , 2014 , 16, 543-550	5	10
136	Modeling the Effects of Minimum Quantity Lubrication on Machining Force, Temperature, and Residual Stress. <i>Machining Science and Technology</i> , 2014 , 18, 547-564	2	10
135	Material Phase Transformation during Grinding. <i>Advanced Materials Research</i> , 2014 , 1052, 503-508	0.5	10
134	Bearing Failure Prognostic Model Based on Damage Mechanics and Vibration Monitoring. <i>Tribology Transactions</i> , 2001 , 44, 603-608	1.8	10
133	Force prediction in micro-grinding maraging steel 3J33b considering the crystallographic orientation and phase transformation. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 2821-2836	3.2	9
132	Surface roughness modeling in Laser-assisted End Milling of Inconel 718. <i>Machining Science and Technology</i> , 2019 , 23, 650-668	2	9
131	Ductile grinding of Silicon carbide in high speed grinding. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2016 , 10, JAMDSM0020-JAMDSM0020	0.6	9
130	Residual stress prediction in ultrasonic vibration-assisted milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 2579-2592	3.2	9
129	Strain rate-sensitive analysis for grinding damage of brittle materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 89, 2221-2229	3.2	9
128	Predictive Modeling of Microgrinding Force Incorporating Phase Transformation Effects. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	8

127	Analytical Thermal Modeling of Powder Bed Metal Additive Manufacturing Considering Powder Size Variation and Packing. <i>Materials</i> , 2020 , 13,	3.5	8
126	Microstructure Texture Prediction in Machining Processes. <i>Procedia CIRP</i> , 2016 , 46, 595-598	1.8	8
125	A new algorithm based on evolutionary computation for hierarchically coupled constraint optimization: methodology and application to assembly job-shop scheduling. <i>Journal of Scheduling</i> , 2018 , 21, 545-563	1.6	8
124	Turning Force Prediction of AISI 4130 Considering Dynamic Recrystallization 2017 ,		8
123	Crystallographic Effects on Microscale Machining of Polycrystalline Brittle Materials. <i>Journal of Micro and Nano-Manufacturing</i> , 2013 , 1,	1.3	8
122	Inverse Analysis of Inconel 718 Laser-Assisted Milling to Achieve Machined Surface Roughness. <i>International Journal of Precision Engineering and Manufacturing</i> , 2018 , 19, 1611-1618	1.7	8
121	Bearing fault diagnosis with nonlinear adaptive dictionary learning. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 102, 4227-4239	3.2	7
120	Temperature prediction of ultrasonic vibration-assisted milling. <i>Ultrasonics</i> , 2020 , 108, 106212	3.5	7
119	Effect of Temperature on the Subsurface Microstructure and Mechanical Properties of AA 7075-T6 in Machining. <i>Procedia CIRP</i> , 2014 , 13, 181-185	1.8	7
118	Tool overlap effect on redistributed residual stress and shape distortion produced by the machining of thin-walled aluminum parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 2227-2242	3.2	7
117	In-process residual stresses regulation during grinding through induction heating with magnetic flux concentrator. <i>International Journal of Mechanical Sciences</i> , 2020 , 172, 105393	5.5	7
116	Prognosis of Bearing Degeneration Using Adaptive Quaternion Least Mean Biquadrate Under Framework of Hypercomplex Data. <i>IEEE Sensors Journal</i> , 2020 , 20, 2659-2670	4	7
115	Intelligent tool wear monitoring based on parallel residual and stacked bidirectional long short-term memory network. <i>Journal of Manufacturing Systems</i> , 2021 , 60, 608-619	9.1	7
114	Influence of AA7075 crystallographic orientation on micro-grinding force. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2019 , 233, 1831-1843	2.4	7
113	In-Situ Distortion Prediction in Metal Additive Manufacturing Considering Boundary Conditions. <i>International Journal of Precision Engineering and Manufacturing</i> , 2021 , 22, 909-917	1.7	7
112	Micro-grinding Temperature Prediction Considering the Effects of Crystallographic Orientation and the Strain Induced by Phase Transformation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2019 , 20, 1861-1876	1.7	6
111	Iterative from error prediction for side-milling of thin-walled parts. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4173-4189	3.2	6
110	Analytical mechanics modeling of residual stress in laser powder bed considering flow hardening and softening. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 107, 4159-4172	3.2	6

109	Ceramic Micro/Nanoparticle Size Evolution in Wet Grinding in Stirred Ball Mill. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 779-786	3.3	6
108	Thermal Analysis of 3J33 Grinding Under Minimum Quantity Lubrication Condition. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2019 , 1	3.8	6
107	Force prediction in ultrasonic vibration-assisted milling. <i>Machining Science and Technology</i> , 2021 , 25, 307-330	2	6
106	Residual stress modeling considering microstructure evolution in metal additive manufacturing. <i>Journal of Manufacturing Processes</i> , 2021 , 68, 383-397	5	6
105	Analytical modeling and sensitivity analysis of the temperature distribution in the planar scanning induction heating based on 2D moving heat source. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 5093-5102	1.6	5
104	Extraction of weak fault using combined dual-tree wavelet and improved MCA for rolling bearings. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 104, 2389-2400	3.2	5
103	Modeling machining errors for thin-walled parts according to chip thickness. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 91-100	3.2	5
102	Tool wear rate prediction in ultrasonic vibration-assisted milling. <i>Machining Science and Technology</i> , 2020 , 24, 758-780	2	5
101	A split-optimization approach for obtaining multiple solutions in single-objective process parameter optimization. <i>SpringerPlus</i> , 2016 , 5, 1424		5
100	Weak Fault Detection for Gearboxes Using Majorization Minimization and Asymmetric Convex Penalty Regularization. <i>Symmetry</i> , 2018 , 10, 243	2.7	5
99	Analysis of Micro-Texture and Grain Size Distributions in Machined Aluminum Alloy 7075. <i>Advanced Materials Research</i> , 2014 , 1052, 489-494	0.5	5
98	Prediction of Residual Stress Induced Distortions in Micro-Milling of Al7050 Thin Plate. <i>Applied Mechanics and Materials</i> , 2014 , 472, 677-681	0.3	5
97	Predictive Modeling of Flank Wear in Turning Under Flood Cooling. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007 , 129, 513-519	3.3	5
96	The flank wear prediction in micro-milling Inconel 718. <i>Industrial Lubrication and Tribology</i> , 2018 , 70, 1374-1380	3.5	5
95	The effect of machining process thermo-mechanical loading on workpiece average grain size. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 80, 21-29	3.2	4
94	Bayesian optimized deep convolutional network for bearing diagnosis. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 313-322	3.2	4
93	Surface roughness prediction in ultrasonic vibration-assisted milling. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2020 , 14, JAMDSM0063-JAMDSM0063	0.6	4
92	Analytical Prediction of Residual Stress in the Machined Surface during Milling. <i>Metals</i> , 2020 , 10, 498	2.3	4

91	Analytical model of work hardening and simulation of the distribution of hardening in micro-milled nickel-based superalloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 97, 3915-3923	3.2	4
90	Inverse analysis of the tool life in laser-assisted milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2019 , 103, 1947-1958	3.2	4
89	Optimisation of the finish hard turning process for hardened 52100 steel with PCBN tools. <i>International Journal of Manufacturing Research</i> , 2007 , 2, 428	0.4	4
88	Inverse analysis of the residual stress in laser-assisted milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 106, 2463-2475	3.2	4
87	Feature extraction of milling chatter based on optimized variational mode decomposition and multi-scale permutation entropy. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 114, 2849-2862	3.2	4
86	Investigation of Temperature and Energy Partition During Maraging Steel Micro-grinding. <i>Procedia CIRP</i> , 2016 , 56, 284-288	1.8	4
85	Residual stress prediction based on MTS model during machining of Ti-6Al-4V. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 3743-3750	1.3	4
84	Analytical and Numerical Predictions of Machining-Induced Residual Stress in Milling of Inconel 718 Considering Dynamic Recrystallization 2018 ,		4
83	Intelligent Prognostics of Degradation Trajectories for Rotating Machinery Based on Asymmetric Penalty Sparse Decomposition Model. <i>Symmetry</i> , 2018 , 10, 214	2.7	4
82	A data-driven approach for tool wear recognition and quantitative prediction based on radar map feature fusion. <i>Measurement: Journal of the International Measurement Confederation</i> , 2021 , 185, 110072	4.6	4
81	Analytical Prediction of Balling, Lack-of-Fusion and Keyholing Thresholds in Powder Bed Fusion. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 12053	2.6	4
80	Time-varying analytical model of ball-end milling tool wear in surface milling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 1109-1123	3.2	3
79	Degradation Trend Prediction for Rotating Machinery Using Long-Range Dependence and Particle Filter Approach. <i>Algorithms</i> , 2018 , 11, 89	1.8	3
78	Non-contact measurement methods for micro- and meso-scale tool positioning. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 60, 251-260	3.2	3
77	Analytical prediction of keyhole porosity in laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 6995	3.2	3
76	Detection of weak fault using sparse empirical wavelet transform for cyclic fault. <i>International Journal of Advanced Manufacturing Technology</i> , 2018 , 99, 1195-1201	3.2	3
75	Analytical Modeling of Residual Stress in Laser Powder Bed Fusion Considering Volume Conservation in Plastic Deformation. <i>Modelling</i> , 2020 , 1, 242-259	2.5	3
74	Effect of crystallographic orientation on the hardness of polycrystalline materials AA7075. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019 , 233, 3182-3192	1.3	3

73	Prediction of Shearing and Ploughing Constants in Milling of Inconel 718. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 8	2.2	3
72	Multichannel Signals Reconstruction Based on Tunable -Factor Wavelet Transform-Morphological Component Analysis and Sparse Bayesian Iteration for Rotating Machines. <i>Entropy</i> , 2018 , 20,	2.8	3
71	Systematic review on tool breakage monitoring techniques in machining operations. <i>International Journal of Machine Tools and Manufacture</i> , 2022 , 176, 103882	9.4	3
70	Cubic boron nitride wheel topography effects on phase transformation of maraging C250 steel and grinding surface quality. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 2881-2893	3.3	2
69	Evaluation of chip morphology during machining of ECAE titanium 2016 ,		2
68	Microstructure Images Restoration of Metallic Materials Based upon KSVD and Smoothing Penalty Sparse Representation Approach. <i>Materials</i> , 2018 , 11,	3.5	2
67	Stability analysis for SiC grinding based upon harmonic wavelet and Lipschitz exponent. <i>Machining Science and Technology</i> , 2019 , 23, 669-687	2	2
66	Micro-grinding temperature prediction considering the effects of crystallographic orientation. <i>Manufacturing Review</i> , 2019 , 6, 22	1.4	2
65	Kinematics prediction and experimental validation of machined surface roughness. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 65, 1651-1657	3.2	2
64	Material driven machining process modeling. <i>Manufacturing Letters</i> , 2017 , 14, 1-5	4.5	2
63	MTS model based force prediction for machining of Ti-6Al-4V. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2017 , 11, JAMDSM0033-JAMDSM0033	0.6	2
62	Adaptive prognosis of bearing degradation based on wavelet decomposition assisted ARMA model 2017 ,		2
61	Incipient multi-fault diagnosis of rolling bearing using improved TQWT and sparse representation approach 2017 ,		2
60	Predictive Modeling of Minimum Quantity Lubrication: Cutting Force, Temperature and Residual Stress. <i>Applied Mechanics and Materials</i> , 2013 , 365-366, 1181-1184	0.3	2
59	Predictive Models for Flank Wear in Near Dry Machining 2005 , 49		2
58	An Analytical Modeling for Designing the Process Parameters for Temperature Specifications in Machining		2
57	Inverse Analysis of the Residual Stress in Laser–Assisted Milling		2
56	Force Prediction in Ultrasonic Vibration-Assisted Milling		2

55	Mechanics Modeling of Residual Stress Considering Effect of Preheating in Laser Powder Bed Fusion. <i>Journal of Manufacturing and Materials Processing</i> , 2021 , 5, 46	2.2	2
54	Prediction model of the surface roughness of micro-milling single crystal copper. <i>Journal of Mechanical Science and Technology</i> , 2019 , 33, 5369-5374	1.6	2
53	Effect of crystallographic orientation on residual stress induced in micro-grinding. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 1271-1284	3.2	2
52	Stability of micro-milling thin-walled part process. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 1529-1544	3.2	2
51	Effects of cutting parameters on temperature and temperature prediction in micro-milling of Inconel 718. <i>International Journal of Nanomanufacturing</i> , 2018 , 14, 377	0.7	2
50	Analytical prediction of part dynamics and process damping for machining stability analysis. <i>Procedia CIRP</i> , 2018 , 72, 1463-1468	1.8	2
49	Determination of Initial Crack Strength of Silicon Die Using Acoustic Emission Technique. <i>Journal of Electronic Materials</i> , 2015 , 44, 2497-2506	1.9	1
48	Simulation of a micro-milling single crystal copper process based on crystal plastic constitutive theory. <i>Simulation</i> , 2020 , 96, 957-968	1.2	1
47	A Closed-Form Solution for Temperature Profiles in Selective Laser Melting of Metal Additive Manufacturing. <i>Materials Science Forum</i> , 2020 , 982, 98-105	0.4	1
46	Modeling of grinding chip thickness distribution based on material removal mode in grinding of SiC ceramics. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2020 , 14, JAMDSM0018-JAMDSM0018	0.6	1
45	Pattern recognition of tool wear in high-speed milling based upon nonlinear analysis 2017 ,		1
44	Wear distribution characteristics of carbide ball end milling tool focusing on tool path and posture. <i>Wear</i> , 2022 , 204248	3.5	1
43	Temperature distribution and mechanical properties of FSW medium thickness aluminum alloy 2219. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 7229	3.2	1
42	Phase Transformation Prediction Considering Crystallographic Orientation in Microgrinding Multiphase Material. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	1
41	Analysis of cutting performance of the tool based on FEM and grey-fuzzy analytic hierarchy process. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	1
40	Overview of Manufacturing 2019 , 1-16		1
39	Predictive Manufacturing: Subtractive and Additive. <i>IOP Conference Series: Materials Science and Engineering</i> , 2020 , 842, 012024	0.4	1
38	Modeling of Convex Surface Topography in Milling Process. <i>Metals</i> , 2020 , 10, 1218	2.3	1

37	Research on Tool Wear Based on 3D FEM Simulation for Milling Process. <i>Journal of Manufacturing and Materials Processing</i> , 2020 , 4, 121	2.2	1
36	A Two-Stage Filter Split-Optimization Approach for Obtaining Multiple Solutions with Identical Objective Value. <i>Machines</i> , 2021 , 9, 65	2.9	1
35	Microstructure affected residual stress prediction based on mechanical threshold stress in direct metal deposition of Ti-6Al-4 V. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 112, 1705-1712	3.2	1
34	Forces prediction in micro-grinding single-crystal copper considering the crystallographic orientation. <i>Manufacturing Review</i> , 2018 , 5, 15	1.4	1
33	Weak Fault Detection of Tapered Rolling Bearing Based on Penalty Regularization Approach. <i>Algorithms</i> , 2018 , 11, 184	1.8	1
32	Analytical modeling of tool failure boundary map in milling titanium alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 095440542110439	2.4	1
31	Investigations on grain size characteristics in microstructure during grinding of maraging steel 3J33. <i>Journal of Manufacturing Processes</i> , 2021 , 69, 434-450	5	1
30	Prediction and control of residual stress-based distortions in the machining of aerospace parts: A review. <i>Journal of Manufacturing Processes</i> , 2022 , 76, 106-122	5	1
29	Prediction of Upper Surface Roughness in Laser Powder Bed Fusion. <i>Metals</i> , 2022 , 12, 11	2.3	1
28	Simulation of micro-milling Inconel 718 considering scale effect. <i>International Journal of Advanced Manufacturing Technology</i> , 2020 , 108, 671-681	3.2	0
27	Surface roughness prediction method of titanium alloy milling based on CDH platform. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 7145	3.2	0
26	An effective selective assembly model for spinning shells based on the improved genetic simulated annealing algorithm (IGSAA). <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 4813	3.2	0
25	Prediction of molten pool size and vapor depression depth in keyhole melting mode of laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 6215	3.2	0
24	Prediction of molten pool height, contact angle, and balling occurrence in laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 119, 6193	3.2	0
23	The modified constitutive model considering strain-temperature coupling and dynamic recrystallization effective for FEM simulation of milling process. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	0
22	Velocity effect sensitivity analysis of ball-end milling Ti-6Al-4 V. <i>International Journal of Advanced Manufacturing Technology</i> , 1	3.2	0
21	Research on breakage characteristics in side milling of titanium alloy with cemented carbide end mill. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 117, 3661	3.2	0
20	Analytical modeling of residual stress in end-milling with minimum quantity lubrication. <i>Mechanics and Industry</i> , 2022 , 23, 5	0.8	0

19	A 3D analytical modeling method for keyhole porosity prediction in laser powder bed fusion. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	0
18	Physics-Based Predictive Model of Lack-of-Fusion Porosity in Laser Powder Bed Fusion Considering Cap Area. <i>Crystals</i> , 2021 , 11, 1568	2.3	0
17	Analytical Model for Temperature Prediction in Milling AISI D2 with Minimum Quantity Lubrication. <i>Metals</i> , 2022 , 12, 697	2.3	0
16	Microstructure and mechanical properties of FSW medium thickness 2219 aluminum alloy. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> ,095440622210885	1.3	0
15	False Lipschitz Penalty Sparse Low-Rank Matrix and Chaotic Bionic Optimization for Prognosis of Bearing Degradation. <i>IEEE Transactions on Reliability</i> , 2020 , 1-17	4.6	
14	Assessment of the Cutting Tooling Effect on Turning Chatter. <i>Applied Mechanics and Materials</i> , 2013 , 433-435, 2101-2106	0.3	
13	A physics-based approach to relate grinding process parameters to tribological behavior of ground surfaces. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 91, 4151-4161	3.2	
12	Integration of Process Mechanics and Materials Mechanics for Precision Machining. <i>Solid State Phenomena</i> , 2017 , 261, 9-16	0.4	
11	Workpiece dynamics during stable cutting in a turning operation. <i>International Journal of Manufacturing Research</i> , 2008 , 3, 406	0.4	
10	Analytical modeling of temperature evolution in laser powder bed fusion considering the size and shape of the build part. <i>Journal of Materials Processing Technology</i> , 2022 , 301, 117452	5.3	
9	Subtractive Processes [Traditional Operations: Cutting, Grinding, and Machine Tools 2019 , 17-93		
8	Corrections to Prognosis of Bearing Degeneration Using Adaptive Quaternion Least Mean Biquadrate Under Framework of Hypercomplex Data[Mar 20 2659-2670]. <i>IEEE Sensors Journal</i> , 2020 , 20, 10316-10316	4	
7	Process and Microstructure in Materials-Affected Manufacturing. <i>Lecture Notes in Mechanical Engineering</i> , 2017 , 309-325	0.4	
6	. <i>IEEE Sensors Journal</i> , 2021 , 21, 3955-3955	4	
5	Uniformity, Periodicity and Symmetry Characteristics of Forces Fluctuation in Helical-Edge Milling Cutter. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 2693	2.6	
4	Numerical calculation of grinding wheel wear for spiral groove grinding. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	
3	Welding parameters optimization during plunging and dwelling phase of FSW 2219 aluminum alloy thick plate. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	
2	Research on parallel distributed clustering algorithm applied to cutting parameter optimization. <i>International Journal of Advanced Manufacturing Technology</i> ,1	3.2	

- ¹ Improved Cutting Force Modelling in Micro-Milling Aluminum Alloy LF 21 Considering Tool Wear. *Applied Sciences (Switzerland)*, **2022**, 12, 5357 2.6