Yung C Shin

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 307
 11,920
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 papers
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 g-index

 329
 13,904
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 7.23

 ext. papers
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 avg, IF
 L-index

#	Paper	IF	Citations
307	The status, challenges, and future of additive manufacturing in engineering. <i>CAD Computer Aided Design</i> , 2015 , 69, 65-89	2.9	1187
306	Additive manufacturing of Ti6Al4V alloy: A review. <i>Materials and Design</i> , 2019 , 164, 107552	8.1	750
305	Modeling of machining of composite materials: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2012 , 57, 102-121	9.4	286
304	Laser-assisted machining of Inconel 718 with an economic analysis. <i>International Journal of Machine Tools and Manufacture</i> , 2006 , 46, 1879-1891	9.4	257
303	Remanufacturing of turbine blades by laser direct deposition with its energy and environmental impact analysis. <i>Journal of Cleaner Production</i> , 2014 , 80, 170-178	10.3	249
302	Radial basis function neural network for approximation and estimation of nonlinear stochastic dynamic systems. <i>IEEE Transactions on Neural Networks</i> , 1994 , 5, 594-603		240
301	Machinability improvement of titanium alloy (TiBAlBV) via LAM and hybrid machining. International Journal of Machine Tools and Manufacture, 2010, 50, 174-182	9.4	238
300	Optimization of machining conditions with practical constraints. <i>International Journal of Production Research</i> , 1992 , 30, 2907-2919	7.8	156
299	Prospects of laser welding technology in the automotive industry: A review. <i>Journal of Materials Processing Technology</i> , 2017 , 245, 46-69	5.3	132
298	Transient, three-dimensional heat transfer model for the laser assisted machining of silicon nitride: I. Comparison of predictions with measured surface temperature histories. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 1409-1424	4.9	131
297	Experimental Investigation of Thermo-Mechanical Characteristics in Laser-Assisted Machining of Silicon Nitride Ceramics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2001, 123, 639-646	3.3	128
296	Laser-assisted machining of hardened steel parts with surface integrity analysis. <i>International Journal of Machine Tools and Manufacture</i> , 2010 , 50, 106-114	9.4	127
295	Molecular dynamics based cohesive zone law for describing AlBiC interface mechanics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 355-363	8.4	126
294	Modeling of coaxial powder flow for the laser direct deposition process. <i>International Journal of Heat and Mass Transfer</i> , 2009 , 52, 5867-5877	4.9	124
293	Analysis of bearing configuration effects on high speed spindles using an integrated dynamic thermo-mechanical spindle model. <i>International Journal of Machine Tools and Manufacture</i> , 2004 , 44, 347-364	9.4	123
292	Hybrid machining of Inconel 718. International Journal of Machine Tools and Manufacture, 2003, 43, 139	9191496	 5 122
291	Modeling of grain refinement in aluminum and copper subjected to cutting. <i>Computational Materials Science</i> , 2011 , 50, 3016-3025	3.2	121

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290	Modeling of transport phenomena during the coaxial laser direct deposition process. <i>Journal of Applied Physics</i> , 2010 , 108, 044908	2.5	116
289	Plasma enhanced machining of Inconel 718: modeling of workpiece temperature with plasma heating and experimental results. <i>International Journal of Machine Tools and Manufacture</i> , 2001 , 41, 50 models.	877- 89 7	111
288	Analysis on high-speed face-milling of 7075-T6 aluminum using carbide and diamond cutters. <i>International Journal of Machine Tools and Manufacture</i> , 2001 , 41, 1763-1781	9.4	108
287	Laser-Assisted Machining of Magnesia-Partially-Stabilized Zirconia. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 42-51	3.3	106
286	Predictive modeling of multi-track laser hardening of AISI 4140 steel. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2008 , 480, 209-217	5.3	102
285	Integrated Dynamic Thermo-Mechanical Modeling of High Speed Spindles, Part 1: Model Development. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 148-158	3.3	100
284	Thermal and mechanical modeling analysis of laser-assisted micro-milling of difficult-to-machine alloys. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 601-613	5.3	99
283	Experimental Evaluation of the Laser Assisted Machining of Silicon Nitride Ceramics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2000 , 122, 666-670	3.3	99
282	Investigation of keyhole plume and molten pool based on a three-dimensional dynamic model with sharp interface formulation. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 055501	3	95
281	Laser direct deposition of AISI H13 tool steel powder with numerical modeling of solid phase transformation, hardness, and residual stresses. <i>Journal of Materials Processing Technology</i> , 2017 , 247, 223-233	5.3	91
280	A comprehensive chatter prediction model for face turning operation including tool wear effect. <i>International Journal of Machine Tools and Manufacture</i> , 2002 , 42, 1035-1044	9.4	89
279	Multi-step 3-D finite element modeling of subsurface damage in machining particulate reinforced metal matrix composites. <i>Composites Part A: Applied Science and Manufacturing</i> , 2009 , 40, 1231-1239	8.4	88
278	Multi-scale modeling of solidification and microstructure development in laser keyhole welding process for austenitic stainless steel. <i>Computational Materials Science</i> , 2015 , 98, 446-458	3.2	87
277	A comprehensive dynamic cutting force model for chatter prediction in turning. <i>International Journal of Machine Tools and Manufacture</i> , 1999 , 39, 1631-1654	9.4	86
276	Microstructure and wear properties of laser-deposited functionally graded Inconel 690 reinforced with TiC. <i>Surface and Coatings Technology</i> , 2012 , 207, 517-522	4.4	85
275	Laser-assisted machining of compacted graphite iron. <i>International Journal of Machine Tools and Manufacture</i> , 2006 , 46, 7-17	9.4	84
274	Predictive modeling and experimental results for residual stresses in laser hardening of AISI 4140 steel by a high power diode laser. <i>Surface and Coatings Technology</i> , 2009 , 203, 2003-2012	4.4	83
273	An experimental and numerical study on the face milling of TiBALEV alloy: Tool performance and surface integrity. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 294-304	5.3	83

272	Thermal Modeling for Laser-Assisted Machining of Silicon Nitride Ceramics with Complex Features. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006 , 128, 425-434	3.3	79
271	Deformation mechanisms and constitutive modeling for silicon nitride undergoing laser-assisted machining. <i>International Journal of Machine Tools and Manufacture</i> , 2000 , 40, 2213-2233	9.4	79
270	In-Process monitoring of porosity during laser additive manufacturing process. <i>Additive Manufacturing</i> , 2019 , 28, 497-505	6.1	78
269	Sparse multiple kernel learning for signal processing applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010 , 32, 788-98	13.3	76
268	A self-closed thermal model for laser shock peening under the water confinement regime configuration and comparisons to experiments. <i>Journal of Applied Physics</i> , 2005 , 97, 113517	2.5	72
267	Laser-Assisted Machining of Reaction Sintered Mullite Ceramics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2002 , 124, 875-885	3.3	72
266	Modeling of multi-burst mode pico-second laser ablation for improved material removal rate. <i>Applied Physics A: Materials Science and Processing</i> , 2010 , 98, 407-415	2.6	71
265	A novel laser-assisted truing and dressing technique for vitrified CBN wheels. <i>International Journal of Machine Tools and Manufacture</i> , 2002 , 42, 825-835	9.4	71
264	Dynamics of Machine Tool Spindle/Bearing Systems Under Thermal Growth. <i>Journal of Tribology</i> , 1997 , 119, 875-882	1.8	70
263	Analysis of multi-phase interaction and its effects on keyhole dynamics with a multi-physics numerical model. <i>Journal Physics D: Applied Physics</i> , 2014 , 47, 345501	3	66
262	Transient, three-dimensional heat transfer model for the laser assisted machining of silicon nitride: II. Assessment of parametric effects. <i>International Journal of Heat and Mass Transfer</i> , 2000 , 43, 1425-143	3 4 ·9	66
261	On-Line Chatter Detection Using Wavelet-Based Parameter Estimation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2003 , 125, 21-28	3.3	64
260	The influences of melting degree of TiC reinforcements on microstructure and mechanical properties of laser direct deposited Ti6Al4V-TiC composites. <i>Materials and Design</i> , 2017 , 136, 185-195	8.1	62
259	Multi-physics modeling and simulations of surface microstructure alteration in hard turning. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 877-886	5.3	62
258	Transient Thermal Response of a Rotating Cylindrical Silicon Nitride Workpiece Subjected to a Translating Laser Heat Source, Part I: Comparison of Surface Temperature Measurements With Theoretical Results. <i>Journal of Heat Transfer</i> , 1998 , 120, 899-906	1.8	62
257	Predictive modeling and experimental results for laser hardening of AISI 1536 steel with complex geometric features by a high power diode laser. <i>Surface and Coatings Technology</i> , 2006 , 201, 2256-2269	4.4	61
256	In-process control of surface roughness due to tool wear using a new ultrasonic system. International Journal of Machine Tools and Manufacture, 1996, 36, 411-422	9.4	61
255	Vision-based weld pool boundary extraction and width measurement during keyhole fiber laser welding. <i>Optics and Lasers in Engineering</i> , 2015 , 64, 59-70	4.6	60

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254	Phase transformation characteristics and mechanical characterization of nitinol synthesized by laser direct deposition. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013 , 559, 836-843	5.3	57
253	A novel integrated model combining Cellular Automata and Phase Field methods for microstructure evolution during solidification of multi-component and multi-phase alloys. <i>Computational Materials Science</i> , 2011 , 50, 2573-2585	3.2	57
252	Femtosecond laser drilling of high-aspect ratio microchannels in glass. <i>Applied Physics A: Materials Science and Processing</i> , 2011 , 104, 713-719	2.6	57
251	Design of operating conditions for crackfree laser-assisted machining of mullite. <i>International Journal of Machine Tools and Manufacture</i> , 2004 , 44, 677-694	9.4	56
250	Laser-assisted burnishing of metals. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 14-22	9.4	55
249	Dynamics of Spindle-Bearing Systems at High Speeds Including Cutting Load Effects. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1998 , 120, 387-394	3.3	55
248	Improvement of machinability of Waspaloy via laser-assisted machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 64, 475-486	3.2	53
247	A new procedure to determine instantaneous cutting force coefficients for machining force prediction. <i>International Journal of Machine Tools and Manufacture</i> , 1997 , 37, 1337-1351	9.4	53
246	Thermo-mechanical modeling of orthogonal machining process by finite element analysis. <i>International Journal of Machine Tools and Manufacture</i> , 1999 , 39, 731-750	9.4	53
245	A Digital Robust Controller for Cutting Force Control in the End Milling Process. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1997 , 119, 146-152	1.6	51
244	Laser-Assisted Milling of Silicon Nitride Ceramics and Inconel 718. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008 , 130,	3.3	51
243	Laser-assisted machining of an austenitic stainless steel: P550. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2006 , 220, 2055-2067	2.4	51
242	Adaptive divided difference filtering for simultaneous state and parameter estimation. <i>Automatica</i> , 2009 , 45, 1686-1693	5.7	50
241	Heat transfer model of semi-transparent ceramics undergoing laser-assisted machining. <i>International Journal of Heat and Mass Transfer</i> , 2005 , 48, 1999-2012	4.9	48
240	Experimental evaluation of laser-assisted machining of silicon carbide particle-reinforced aluminum matrix composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 66, 1603-1610	3.2	47
239	Dislocation density-based modeling of subsurface grain refinement with laser-induced shock compression. <i>Computational Materials Science</i> , 2012 , 53, 79-88	3.2	47
238	Multiscale Finite Element Modeling of Silicon Nitride Ceramics Undergoing Laser-Assisted Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007 , 129, 287-2	3 ₹	47
237	Superhydrophobic contoured surfaces created on metal and polymer using a femtosecond laser. Applied Surface Science, 2017, 405, 465-475	6.7	46

236	Laser Shock Peening on Zr-based Bulk Metallic Glass and Its Effect on Plasticity: Experiment and Modeling. <i>Scientific Reports</i> , 2015 , 5, 10789	4.9	46
235	In Situ Synthesis and Characterization of Shape Memory Alloy Nitinol by Laser Direct Deposition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2012, 43, 650-657	2.3	46
234	Multiphase Finite Element Modeling of Machining Unidirectional Composites: Prediction of Debonding and Fiber Damage. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008 , 130,	3.3	46
233	Modeling of nanosecond laser ablation with vapor plasma formation. <i>Journal of Applied Physics</i> , 2006 , 99, 084310	2.5	45
232	Assessment of Plasma Enhanced Machining for Improved Machinability of Inconel 718. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1997 , 119, 125-129	3.3	44
231	Stability Analysis in Face Milling Operations, Part 1: Theory of Stability Lobe Prediction. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1999 , 121, 600-605	3.3	44
230	Material Constitutive Modeling Under High Strain Rates and Temperatures Through Orthogonal Machining Tests. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1999 , 121, 577-585	3.3	43
229	Modeling and control of cnc machines using a PC-based open architecture controller. <i>Mechatronics</i> , 1995 , 5, 401-420	3	43
228	Effect of porosity on the interface behavior of an Al2O3Bluminum composite: A molecular dynamics study. <i>Composites Science and Technology</i> , 2011 , 71, 350-356	8.6	41
227	Investigation on Cutting Temperature in Turning by a Tool-Work Thermocouple Technique. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1997 , 119, 502-508	3.3	41
226	Synthesis and characterization of Fe-based amorphous composite by laser direct deposition. <i>Surface and Coatings Technology</i> , 2014 , 239, 34-40	4.4	40
225	Dislocation Density-Based Grain Refinement Modeling of Orthogonal Cutting of Titanium. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2014 , 136,	3.3	40
224	Multi-scale modeling to predict sub-surface damage applied to laser-assisted machining of a particulate reinforced metal matrix composite. <i>Journal of Materials Processing Technology</i> , 2013 , 213, 153-160	5.3	40
223	Generalized practical models of cylindrical plunge grinding processes. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 61-72	9.4	40
222	A Comprehensive Dynamic End Milling Simulation Model. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006 , 128, 86-95	3.3	40
221	Surface Roughness Measurement by Ultrasonic Sensing for In-Process Monitoring. <i>Journal of Engineering for Industry</i> , 1995 , 117, 439-447		39
220	Modeling and experimental verification of plasmas induced by high-power nanosecond laser-aluminum interactions in air. <i>Physical Review E</i> , 2007 , 76, 026405	2.4	37
219	Analysis of microstructure and mechanical properties change in laser welding of Ti6Al4V with a multiphysics prediction model. <i>Journal of Materials Processing Technology</i> , 2016 , 237, 420-429	5.3	37

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218	estimation of keyhole geometry and prediction of welding defects during laser welding based on a vision system and a radial basis function neural network. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 81, 263-276	3.2	36	
217	Comparative evaluation of laser-assisted micro-milling for AISI 316, AISI 422, TI-6AL-4V and Inconel 718 in a side-cutting configuration. <i>Journal of Micromechanics and Microengineering</i> , 2010 , 20, 075012	2	36	
216	A Metallo-Thermomechanically Coupled Analysis of Orthogonal Cutting of AISI 1045 Steel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2012 , 134,	3.3	36	
215	Femtosecond laser ablation of aluminum in vacuum and air at high laser intensity. <i>Applied Surface Science</i> , 2013 , 283, 94-99	6.7	35	
214	Multiscale Modeling of Transport Phenomena and Dendritic Growth in Laser Cladding Processes. Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science, 2011 , 42, 1306-1318	2.5	35	
213	Predictive modeling of laser hardening of AISI5150H steels. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 307-320	9.4	35	
212	Ablation enhancement of silicon by ultrashort double-pulse laser ablation. <i>Applied Physics Letters</i> , 2014 , 105, 111907	3.4	34	
211	Early-stage plasma dynamics with air ionization during ultrashort laser ablation of metal. <i>Physics of Plasmas</i> , 2011 , 18, 093302	2.1	34	
210	Laser pulse transmission through the water breakdown plasma in laser shock peening. <i>Applied Physics Letters</i> , 2006 , 88, 041116	3.4	34	
209	Predictive modeling of grain refinement during multi-pass cold rolling. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 1003-1013	5.3	33	
208	Integrated Dynamic Thermo-Mechanical Modeling of High Speed Spindles, Part 2: Solution Procedure and Validations. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004 , 126, 159-168	3.3	33	
207	Construction of fuzzy systems using least-squares method and genetic algorithm. <i>Fuzzy Sets and Systems</i> , 2003 , 137, 297-323	3.7	33	
206	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011 , 16, 1032-1039	5.5	32	
205	Laser-Assisted Machining of a Fiber Reinforced Metal Matrix Composite. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132,	3.3	32	
204	Modeling of the Off-Axis High Power Diode Laser Cladding Process. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	32	
203	A simple model for high fluence ultra-short pulsed laser metal ablation. <i>Applied Surface Science</i> , 2007 , 253, 4079-4084	6.7	32	
202	Micromachining of Metals, Alloys, and Ceramics by Picosecond Laser Ablation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132,	3.3	31	
201	Wear of diamond dresser in laser assisted truing and dressing of vitrified CBN wheels. <i>International Journal of Machine Tools and Manufacture</i> , 2003 , 43, 41-49	9.4	31	

200	Comprehensive predictive modeling and parametric analysis of multitrack direct laser deposition processes. <i>Journal of Laser Applications</i> , 2011 , 23, 022003	2.1	30
199	Two dimensional hydrodynamic simulation of high pressures induced by high power nanosecond laser-matter interactions under water. <i>Journal of Applied Physics</i> , 2007 , 101, 103514	2.5	30
198	Laser-Assisted Machining of Damage-Free Silicon Nitride Parts with Complex Geometric Features via In-Process Control of Laser Power. <i>Journal of the American Ceramic Society</i> , 2006 , 89, 3397-3405	3.8	30
197	Control of Cutting Force for End Milling Processes Using an Extended Model Reference Adaptive Control Scheme. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1996 , 118, 339-347	3.3	29
196	Evolutionary modelling and optimization of grinding processes. <i>International Journal of Production Research</i> , 2000 , 38, 2787-2813	7.8	29
195	Analysis of weld geometry and liquid flow in laser transmission welding between polyethylene terephthalate (PET) and Ti6Al4V based on numerical simulation. <i>Optics and Laser Technology</i> , 2018 , 103, 99-108	4.2	28
194	Experimental Evaluation and Modeling Analysis of Micromilling of Hardened H13 Tool Steels. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133,	3.3	28
193	A one-dimensional hydrodynamic model for pressures induced near the coating-water interface during laser shock peening. <i>Journal of Applied Physics</i> , 2007 , 101, 023510	2.5	28
192	A Time-Domain Dynamic Model for Chatter Prediction of Cylindrical Plunge Grinding Processes. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006 , 128, 404-415	3.3	28
191	From Incident Laser Pulse to Residual Stress: A Complete and Self-Closed Model for Laser Shock Peening. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007 , 129, 117-12	25 ^{3.3}	28
190	Improved machinability of SiC/SiC ceramic matrix composite via laser-assisted micromachining. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 731-739	3.2	27
189	Numerical Modeling of Transport Phenomena and Dendritic Growth in Laser Spot Conduction Welding of 304 Stainless Steel. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2012 , 134,	3.3	27
188	Automated Sensor Selection and Fusion for Monitoring and Diagnostics of Plunge Grinding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008 , 130,	3.3	27
187	Neuro-fuzzy control of complex manufacturing processes. <i>International Journal of Production Research</i> , 1996 , 34, 3291-3309	7.8	27
186	An Integrated Approach Toward the Dynamic Analysis of High-Speed Spindles: Part IBystem Model. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1994 , 116, 506-513	1.6	27
185	Simulation and experimental studies on microstructure evolution of resolidified dendritic TiC in laser direct deposited Ti-TiC composite. <i>Materials and Design</i> , 2018 , 159, 212-223	8.1	27
184	MICROSTRUCTURAL ANALYSIS AND MACHINABILITY IMPROVEMENT OF UDIMET 720 VIA CRYOGENIC MILLING. <i>Machining Science and Technology</i> , 2009 , 13, 1-19	2	26
183	Coulomb explosion and early plasma generation during femtosecond laser ablation of silicon at high laser fluence. <i>Journal Physics D: Applied Physics</i> , 2013 , 46, 335501	3	25

182	Modeling of Tool Forces for Worn Tools: Flank Wear Effects. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1996 , 118, 359-366	3.3	25	
181	A study on chatter boundaries of cylindrical plunge grinding with process condition-dependent dynamics. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 1563-1572	9.4	25	
180	Ultrafast Laser Applications in Manufacturing Processes: A State-of-the-Art Review. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	25	
179	Robust Tool Wear Estimation With Radial Basis Function Neural Networks. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1995 , 117, 459-467	1.6	24	
178	A simplified predictive model for high-fluence ultra-short pulsed laser ablation of semiconductors and dielectrics. <i>Applied Surface Science</i> , 2009 , 255, 4996-5002	6.7	23	
177	Absorption coefficient of aluminum near the critical point and the consequences on high-power nanosecond laser ablation. <i>Applied Physics Letters</i> , 2006 , 89, 111902	3.4	23	
176	Transient Thermal Response of a Rotating Cylindrical Silicon Nitride Workpiece Subjected to a Translating Laser Heat Source, Part II: Parametric Effects and Assessment of a Simplified Model. Journal of Heat Transfer, 1998, 120, 907-915	1.8	23	
175	Comprehensive modeling of transport phenomena in laser hot-wire deposition process. International Journal of Heat and Mass Transfer, 2018, 125, 1356-1368	4.9	23	
174	Molecular dynamics-based cohesive zone representation of Ti6Al4V/TiC composite interface. Materials and Design, 2018, 155, 161-169	8.1	23	
173	Laser-assisted milling of Ti-6Al-4V with the consideration of surface integrity. <i>International Journal of Advanced Manufacturing Technology</i> , 2015 , 79, 1645-1658	3.2	22	
172	Analysis of nanosecond laser ablation of aluminum with and without phase explosion in air and water. <i>Journal of Laser Applications</i> , 2013 , 25, 032002	2.1	22	
171	Parametric Study on Single Shot and Overlapping Laser Shock Peening on Various Metals via Modeling and Experiments. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132,	3.3	22	
170	Intelligent Model-based Optimization of the Surface Grinding Process for Heat-Treated 4140 Steel Alloys With Aluminum Oxide Grinding Wheels. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2003 , 125, 65-76	3.3	22	
169	Characterization of CNC machining centers. <i>Journal of Manufacturing Systems</i> , 1991 , 10, 407-421	9.1	22	
168	Predictive modeling capabilities from incident powder and laser to mechanical properties for laser directed energy deposition. <i>Computational Mechanics</i> , 2018 , 61, 617-636	4	21	
16 7	Vision-based clad height measurement. <i>Machine Vision and Applications</i> , 2011 , 22, 129-136	2.8	21	
166	A Bayesian machine learning method for sensor selection and fusion with application to on-board fault diagnostics. <i>Mechanical Systems and Signal Processing</i> , 2010 , 24, 182-192	7.8	21	
165	Stability Analysis in Face Milling Operations, Part 2: Experimental Validation and Influencing Factors. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1999 , 121, 606-614	3.3	21	

164	Static and Dynamic Characteristics of a Two Stage Pilot Relief Valve. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1991 , 113, 280-288	1.6	21
163	Interaction analysis for MIMO nonlinear systems based on a fuzzy basis function network model. <i>Fuzzy Sets and Systems</i> , 2007 , 158, 2013-2025	3.7	20
162	Self-Sufficient Modeling of Single Track Deposition of TiBALBV With the Prediction of Capture Efficiency. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	20
161	Two-photon lithography for three-dimensional fabrication in micro/nanoscale regime: A comprehensive review. <i>Optics and Laser Technology</i> , 2021 , 142, 107180	4.2	20
160	Investigation on the Effects of Process Parameters on Defect Formation in Friction Stir Welded Samples Via Predictive Numerical Modeling and Experiments. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017 , 139,	3.3	19
159	A two-dimensional comprehensive hydrodynamic model for femtosecond laser pulse interaction with metals. <i>Journal Physics D: Applied Physics</i> , 2012 , 45, 105201	3	19
158	Constructive training of recurrent neural networks using hybrid optimization. <i>Neurocomputing</i> , 2010 , 73, 2624-2631	5.4	19
157	SURFACE TEMPERATURE MEASUREMENT IN LASER-ASSISTED MACHINING PROCESSES. Experimental Heat Transfer, 1997 , 10, 291-313	2.4	19
156	Wheel Regenerative Chatter of Surface Grinding. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006 , 128, 393-403	3.3	19
155	Design of a multilevel fuzzy controller for nonlinear systems and stability analysis. <i>IEEE Transactions on Fuzzy Systems</i> , 2005 , 13, 761-778	8.3	19
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