

Yung C Shin

List of Publications by Year in descending order

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328
papers

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citations

19608

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112
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329
all docs

329
docs citations

329
times ranked

9929
citing authors

#	ARTICLE	IF	CITATIONS
1	The status, challenges, and future of additive manufacturing in engineering. CAD Computer Aided Design, 2015, 69, 65-89.	1.4	1,725
2	Additive manufacturing of Ti6Al4V alloy: A review. Materials and Design, 2019, 164, 107552.	3.3	1,384
3	Remanufacturing of turbine blades by laser direct deposition with its energy and environmental impact analysis. Journal of Cleaner Production, 2014, 80, 170-178.	4.6	364
4	Modeling of machining of composite materials: A review. International Journal of Machine Tools and Manufacture, 2012, 57, 102-121.	6.2	358
5	Radial basis function neural network for approximation and estimation of nonlinear stochastic dynamic systems. IEEE Transactions on Neural Networks, 1994, 5, 594-603.	4.8	336
6	Laser-assisted machining of Inconel 718 with an economic analysis. International Journal of Machine Tools and Manufacture, 2006, 46, 1879-1891.	6.2	301
7	Machinability improvement of titanium alloy (Ti-6Al-4V) via LAM and hybrid machining. International Journal of Machine Tools and Manufacture, 2010, 50, 174-182.	6.2	286
8	Prospects of laser welding technology in the automotive industry: A review. Journal of Materials Processing Technology, 2017, 245, 46-69.	3.1	227
9	Optimization of machining conditions with practical constraints. International Journal of Production Research, 1992, 30, 2907-2919.	4.9	180
10	Molecular dynamics based cohesive zone law for describing Al-SiC interface mechanics. Composites Part A: Applied Science and Manufacturing, 2011, 42, 355-363.	3.8	174
11	Modeling of coaxial powder flow for the laser direct deposition process. International Journal of Heat and Mass Transfer, 2009, 52, 5867-5877.	2.5	168
12	Laser-assisted machining of hardened steel parts with surface integrity analysis. International Journal of Machine Tools and Manufacture, 2010, 50, 106-114.	6.2	153
13	Experimental Investigation of Thermo-Mechanical Characteristics in Laser-Assisted Machining of Silicon Nitride Ceramics. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2001, 123, 639-646.	1.3	152
14	Modeling of grain refinement in aluminum and copper subjected to cutting. Computational Materials Science, 2011, 50, 3016-3025.	1.4	150
15	Modeling of transport phenomena during the coaxial laser direct deposition process. Journal of Applied Physics, 2010, 108, .	1.1	148
16	Transient, three-dimensional heat transfer model for the laser assisted machining of silicon nitride: I. Comparison of predictions with measured surface temperature histories. International Journal of Heat and Mass Transfer, 2000, 43, 1409-1424.	2.5	147
17	Analysis of bearing configuration effects on high speed spindles using an integrated dynamic thermo-mechanical spindle model. International Journal of Machine Tools and Manufacture, 2004, 44, 347-364.	6.2	146
18	Hybrid machining of Inconel 718. International Journal of Machine Tools and Manufacture, 2003, 43, 1391-1396.	6.2	141

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19	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, 877-897.	6.2	129
20	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.	2.6	129
21	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.	6.2	128
22	In-Process monitoring of porosity during laser additive manufacturing process. <i>Additive Manufacturing</i> , 2019, 28, 497-505.	1.7	125
23	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.	1.3	124
24	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.	3.1	124
25	Laser-Assisted Machining of Magnesia-Partially-Stabilized Zirconia. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2004, 126, 42-51.	1.3	123
26	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.	3.1	121
27	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.	1.3	118
28	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.	1.3	118
29	Microstructure and wear properties of laser-deposited functionally graded Inconel 690 reinforced with TiC. <i>Surface and Coatings Technology</i> , 2012, 207, 517-522.	2.2	111
30	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.	6.2	110
31	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.	3.8	107
32	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.	1.4	106
33	An experimental and numerical study on the face milling of Ti-6Al-4V alloy: Tool performance and surface integrity. <i>Journal of Materials Processing Technology</i> , 2011, 211, 294-304.	3.1	105
34	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.	3.3	105
35	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.	2.2	102
36	A comprehensive dynamic cutting force model for chatter prediction in turning. <i>International Journal of Machine Tools and Manufacture</i> , 1999, 39, 1631-1654.	6.2	99

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37	Laser-assisted machining of compacted graphite iron. <i>International Journal of Machine Tools and Manufacture</i> , 2006, 46, 7-17.	6.2	96
38	Thermal Modeling for Laser-Assisted Machining of Silicon Nitride Ceramics with Complex Features. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006, 128, 425-434.	1.3	94
39	Sparse Multiple Kernel Learning for Signal Processing Applications. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2010, 32, 788-798.	9.7	91
40	Dynamics of Machine Tool Spindle/Bearing Systems Under Thermal Growth. <i>Journal of Tribology</i> , 1997, 119, 875-882.	1.0	90
41	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.	6.2	90
42	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.	1.1	90
43	Two-photon lithography for three-dimensional fabrication in micro/nanoscale regime: A comprehensive review. <i>Optics and Laser Technology</i> , 2021, 142, 107180.	2.2	87
44	Laser-Assisted Machining of Reaction Sintered Mullite Ceramics. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2002, 124, 875-885.	1.3	84
45	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.	1.1	84
46	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.	1.3	82
47	Multi-physics modeling and simulations of surface microstructure alteration in hard turning. <i>Journal of Materials Processing Technology</i> , 2013, 213, 877-886.	3.1	80
48	In-process control of surface roughness due to tool wear using a new ultrasonic system. <i>International Journal of Machine Tools and Manufacture</i> , 1996, 36, 411-422.	6.2	79
49	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.	2.6	79
50	Superhydrophobic contoured surfaces created on metal and polymer using a femtosecond laser. <i>Applied Surface Science</i> , 2017, 405, 465-475.	3.1	78
51	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.	6.2	77
52	Femtosecond laser drilling of high-aspect ratio microchannels in glass. <i>Applied Physics A: Materials Science and Processing</i> , 2011, 104, 713-719.	1.1	77
53	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, 1425-1437.	2.5	74
54	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.	2.0	73

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55	On-Line Chatter Detection Using Wavelet-Based Parameter Estimation. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2003, 125, 21-28.	1.3	72
56	Predictive modeling and experimental results for laser hardening of AISI 1536 steel with complex geometric features by a high power diode laser. Surface and Coatings Technology, 2006, 201, 2256-2269.	2.2	72
57	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. Journal of Heat Transfer, 1998, 120, 899-906.	1.2	70
58	Laser-assisted burnishing of metals. International Journal of Machine Tools and Manufacture, 2007, 47, 14-22.	6.2	68
59	Design of operating conditions for crackfree laser-assisted machining of mullite. International Journal of Machine Tools and Manufacture, 2004, 44, 677-694.	6.2	67
60	Laser-Assisted Milling of Silicon Nitride Ceramics and Inconel 718. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	65
61	Dynamics of Spindle-Bearing Systems at High Speeds Including Cutting Load Effects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1998, 120, 387-394.	1.3	64
62	Multiphase Finite Element Modeling of Machining Unidirectional Composites: Prediction of Debonding and Fiber Damage. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	64
63	Improvement of machinability of Waspaloy via laser-assisted machining. International Journal of Advanced Manufacturing Technology, 2013, 64, 475-486.	1.5	64
64	A novel integrated model combining Cellular Automata and Phase Field methods for microstructure evolution during solidification of multi-component and multi-phase alloys. Computational Materials Science, 2011, 50, 2573-2585.	1.4	63
65	Adaptive divided difference filtering for simultaneous state and parameter estimation. Automatica, 2009, 45, 1686-1693.	3.0	62
66	A Digital Robust Controller for Cutting Force Control in the End Milling Process. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1997, 119, 146-152.	0.9	61
67	A new procedure to determine instantaneous cutting force coefficients for machining force prediction. International Journal of Machine Tools and Manufacture, 1997, 37, 1337-1351.	6.2	61
68	Dislocation density-based modeling of subsurface grain refinement with laser-induced shock compression. Computational Materials Science, 2012, 53, 79-88.	1.4	61
69	Ultrafast Laser Applications in Manufacturing Processes: A State-of-the-Art Review. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	61
70	Thermo-mechanical modeling of orthogonal machining process by finite element analysis. International Journal of Machine Tools and Manufacture, 1999, 39, 731-750.	6.2	59
71	Laser-assisted machining of an austenitic stainless steel: P550. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2006, 220, 2055-2067.	1.5	59
72	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.	1.1	59

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73	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.	1.5	59
74	Heat transfer model of semi-transparent ceramics undergoing laser-assisted machining. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 1999-2012.	2.5	56
75	Surface Roughness Measurement by Ultrasonic Sensing for In-Process Monitoring. <i>Journal of Engineering for Industry</i> , 1995, 117, 439-447.	0.8	55
76	Synthesis and characterization of Fe-based amorphous composite by laser direct deposition. <i>Surface and Coatings Technology</i> , 2014, 239, 34-40.	2.2	54
77	Laser Shock Peening on Zr-based Bulk Metallic Glass and Its Effect on Plasticity: Experiment and Modeling. <i>Scientific Reports</i> , 2015, 5, 10789.	1.6	54
78	Modeling of nanosecond laser ablation with vapor plasma formation. <i>Journal of Applied Physics</i> , 2006, 99, 084310.	1.1	53
79	Effect of porosity on the interface behavior of an Al ₂ O ₃ /aluminum composite: A molecular dynamics study. <i>Composites Science and Technology</i> , 2011, 71, 350-356.	3.8	53
80	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, .	1.3	52
81	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.	1.3	51
82	Femtosecond laser ablation of aluminum in vacuum and air at high laser intensity. <i>Applied Surface Science</i> , 2013, 283, 94-99.	3.1	51
83	Molecular dynamics-based cohesive zone representation of Ti6Al4V/TiC composite interface. <i>Materials and Design</i> , 2018, 155, 161-169.	3.3	51
84	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.	1.3	50
85	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.	1.3	49
86	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, 287-295.	1.3	49
87	Modeling and control of cnc machines using a PC-based open architecture controller. <i>Mechatronics</i> , 1995, 5, 401-420.	2.0	48
88	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.	3.1	48
89	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.	2.2	48
90	Generalized practical models of cylindrical plunge grinding processes. <i>International Journal of Machine Tools and Manufacture</i> , 2008, 48, 61-72.	6.2	47

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91	Predictive modeling of grain refinement during multi-pass cold rolling. Journal of Materials Processing Technology, 2012, 212, 1003-1013.	3.1	47
92	Multi-scale modeling to predict sub-surface damage applied to laser-assisted machining of a particulate reinforced metal matrix composite. Journal of Materials Processing Technology, 2013, 213, 153-160.	3.1	47
93	Estimation of keyhole geometry and prediction of welding defects during laser welding based on a vision system and a radial basis function neural network. International Journal of Advanced Manufacturing Technology, 2015, 81, 263-276.	1.5	47
94	Laser pulse transmission through the water breakdown plasma in laser shock peening. Applied Physics Letters, 2006, 88, 041116.	1.5	46
95	A Comprehensive Dynamic End Milling Simulation Model. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 86-95.	1.3	46
96	Comparative evaluation of laser-assisted micro-milling for AISI 316, AISI 422, Ti-6AL-4V and Inconel 718 in a side-cutting configuration. Journal of Micromechanics and Microengineering, 2010, 20, 075012.	1.5	46
97	A Metallo-Thermomechanically Coupled Analysis of Orthogonal Cutting of AISI 1045 Steel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	46
98	Improved machinability of SiC/SiC ceramic matrix composite via laser-assisted micromachining. International Journal of Advanced Manufacturing Technology, 2017, 90, 731-739.	1.5	46
99	Modeling and experimental verification of plasmas induced by high-power nanosecond laser-aluminum interactions in air. Physical Review E, 2007, 76, 026405.	0.8	45
100	Early-stage plasma dynamics with air ionization during ultrashort laser ablation of metal. Physics of Plasmas, 2011, 18, .	0.7	45
101	Predictive modeling of laser hardening of AISI5150H steels. International Journal of Machine Tools and Manufacture, 2007, 47, 307-320.	6.2	44
102	Mechanical breathing in organic electrochromics. Nature Communications, 2020, 11, 211.	5.8	44
103	Material Constitutive Modeling Under High Strain Rates and Temperatures Through Orthogonal Machining Tests. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1999, 121, 577-585.	1.3	43
104	Ablation enhancement of silicon by ultrashort double-pulse laser ablation. Applied Physics Letters, 2014, 105, .	1.5	41
105	Laser-Assisted Machining of a Fiber Reinforced Metal Matrix Composite. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	40
106	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.	1.0	40
107	Modeling of the Off-Axis High Power Diode Laser Cladding Process. Journal of Heat Transfer, 2011, 133, .	1.2	40
108	Simulation and experimental studies on microstructure evolution of resolidified dendritic TiC in laser direct deposited Ti-TiC composite. Materials and Design, 2018, 159, 212-223.	3.3	40

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109	Deep-learning-based porosity monitoring of laser welding process. <i>Manufacturing Letters</i> , 2020, 23, 62-66.	1.1	40
110	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.	1.3	39
111	A simple model for high fluence ultra-short pulsed laser metal ablation. <i>Applied Surface Science</i> , 2007, 253, 4079-4084.	3.1	39
112	Micromachining of Metals, Alloys, and Ceramics by Picosecond Laser Ablation. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010, 132, .	1.3	39
113	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.	1.3	38
114	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.	1.3	37
115	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.	1.9	37
116	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.	1.1	37
117	Comprehensive modeling of transport phenomena in laser hot-wire deposition process. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 1356-1368.	2.5	37
118	Construction of fuzzy systems using least-squares method and genetic algorithm. <i>Fuzzy Sets and Systems</i> , 2003, 137, 297-323.	1.6	36
119	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. <i>IEEE/ASME Transactions on Mechatronics</i> , 2011, 16, 1032-1039.	3.7	36
120	Wideband anti-reflective silicon surface structures fabricated by femtosecond laser texturing. <i>Applied Surface Science</i> , 2018, 459, 86-91.	3.1	36
121	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.	6.2	35
122	Predictive modeling capabilities from incident powder and laser to mechanical properties for laser directed energy deposition. <i>Computational Mechanics</i> , 2018, 61, 617-636.	2.2	35
123	Neuro-fuzzy control of complex manufacturing processes. <i>International Journal of Production Research</i> , 1996, 34, 3291-3309.	4.9	34
124	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.	1.1	34
125	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, .	1.3	34
126	An Integrated Approach Toward the Dynamic Analysis of High-Speed Spindles: Part I – System Model. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1994, 116, 506-513.	1.0	32

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127	Evolutionary modelling and optimization of grinding processes. International Journal of Production Research, 2000, 38, 2787-2813.	4.9	32
128	Comprehensive predictive modeling and parametric analysis of multitrack direct laser deposition processes. Journal of Laser Applications, 2011, 23, .	0.8	32
129	Experimental Evaluation and Modeling Analysis of Micromilling of Hardened H13 Tool Steels. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2011, 133, .	1.3	32
130	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.	1.3	31
131	MICROSTRUCTURAL ANALYSIS AND MACHINABILITY IMPROVEMENT OF UDIMET 720 VIA CRYOGENIC MILLING. Machining Science and Technology, 2009, 13, 1-19.	1.4	31
132	Numerical Modeling of Transport Phenomena and Dendritic Growth in Laser Spot Conduction Welding of 304 Stainless Steel. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2012, 134, .	1.3	31
133	Analysis of nanosecond laser ablation of aluminum with and without phase explosion in air and water. Journal of Laser Applications, 2013, 25, .	0.8	31
134	Robust Tool Wear Estimation With Radial Basis Function Neural Networks. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1995, 117, 459-467.	0.9	30
135	Automated Sensor Selection and Fusion for Monitoring and Diagnostics of Plunge Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2008, 130, .	1.3	30
136	Vision-based clad height measurement. Machine Vision and Applications, 2011, 22, 129-136.	1.7	30
137	Laser-assisted milling of Ti-6Al-4V with the consideration of surface integrity. International Journal of Advanced Manufacturing Technology, 2015, 79, 1645-1658.	1.5	30
138	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.	1.2	29
139	A study on chatter boundaries of cylindrical plunge grinding with process condition-dependent dynamics. International Journal of Machine Tools and Manufacture, 2007, 47, 1563-1572.	6.2	29
140	Parametric Study on Single Shot and Overlapping Laser Shock Peening on Various Metals via Modeling and Experiments. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2010, 132, .	1.3	29
141	Effects of Composition and Post Heat Treatment on Shape Memory Characteristics and Mechanical Properties for Laser Direct Deposited Nitinol. Lasers in Manufacturing and Materials Processing, 2019, 6, 41-58.	1.2	29
142	Overview of Laser Applications in Manufacturing and Materials Processing in Recent Years. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2020, 142, .	1.3	29
143	From Incident Laser Pulse to Residual Stress: A Complete and Self-Closed Model for Laser Shock Peening. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2007, 129, 117-125.	1.3	28
144	Modeling Particle Spray and Capture Efficiency for Direct Laser Deposition Using a Four Nozzle Powder Injection System. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2018, 140, .	1.3	28

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145	Modeling of Tool Forces for Worn Tools: Flank Wear Effects. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1996, 118, 359-366.	1.3	27
146	A simplified predictive model for high-fluence ultra-short pulsed laser ablation of semiconductors and dielectrics. Applied Surface Science, 2009, 255, 4996-5002.	3.1	27
147	A Bayesian machine learning method for sensor selection and fusion with application to on-board fault diagnostics. Mechanical Systems and Signal Processing, 2010, 24, 182-192.	4.4	26
148	Characterization of CNC machining centers. Journal of Manufacturing Systems, 1991, 10, 407-421.	7.6	25
149	Static and Dynamic Characteristics of a Two Stage Pilot Relief Valve. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 1991, 113, 280-288.	0.9	25
150	Stability Analysis in Face Milling Operations, Part 2: Experimental Validation and Influencing Factors. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1999, 121, 606-614.	1.3	25
151	Intelligent Model-based Optimization of the Surface Grinding Process for Heat-Treated 4140 Steel Alloys With Aluminum Oxide Grinding Wheels. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2003, 125, 65-76.	1.3	25
152	Constructive training of recurrent neural networks using hybrid optimization. Neurocomputing, 2010, 73, 2624-2631.	3.5	25
153	A two-dimensional comprehensive hydrodynamic model for femtosecond laser pulse interaction with metals. Journal Physics D: Applied Physics, 2012, 45, 105201.	1.3	25
154	A data-based framework for fault detection and diagnostics of non-linear systems with partial state measurement. Engineering Applications of Artificial Intelligence, 2013, 26, 446-455.	4.3	25
155	Integrated 2D cellular automata-phase field modeling of solidification and microstructure evolution during additive manufacturing of Ti6Al4V. Computational Materials Science, 2020, 183, 109889.	1.4	25
156	Effects of interface gap and shielding gas on the quality of alloy AA6061 fiber laser lap weldings. Journal of Materials Processing Technology, 2019, 268, 201-212.	3.1	25
157	Design of a multilevel fuzzy controller for nonlinear systems and stability analysis. IEEE Transactions on Fuzzy Systems, 2005, 13, 761-778.	6.5	24
158	Absorption coefficient of aluminum near the critical point and the consequences on high-power nanosecond laser ablation. Applied Physics Letters, 2006, 89, 111902.	1.5	24
159	Wheel Regenerative Chatter of Surface Grinding. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2006, 128, 393-403.	1.3	24
160	Self-Sufficient Modeling of Single Track Deposition of Ti-6Al-4V With the Prediction of Capture Efficiency. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	1.3	24
161	Ball end milling mechanistic model based on a voxel-based geometric representation and a ray casting technique. Journal of Manufacturing Processes, 2013, 15, 338-347.	2.8	23
162	Laser deposited coatings of Co-Cr-Mo onto Ti-6Al-4V and SS316L substrates for biomedical applications. , 2013, 101, 1124-1132.		23

#	ARTICLE	IF	CITATIONS
163	Analysis of defect formation mechanisms and their effects on weld strength during friction stir welding of Al 6061-T6 via experiments and finite element modeling. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 4621-4635.	1.5	23
164	SURFACE TEMPERATURE MEASUREMENT IN LASER-ASSISTED MACHINING PROCESSES. <i>Experimental Heat Transfer</i> , 1997, 10, 291-313.	2.3	22
165	Energy transport analysis in ultrashort pulse laser ablation through combined molecular dynamics and Monte Carlo simulation. <i>Physical Review B</i> , 2010, 82, .	1.1	22
166	Laser Assisted Milling of Ti-6Al-4V ELI with the Analysis of Surface Integrity and its Economics. <i>Lasers in Manufacturing and Materials Processing</i> , 2015, 2, 164-185.	1.2	22
167	Gain estimation of nonlinear dynamic systems modeled by an FBFN and the maximum output scaling factor of a self-tuning PI fuzzy controller. <i>Engineering Applications of Artificial Intelligence</i> , 2015, 42, 1-15.	4.3	22
168	Robust Tool Wear Monitoring Using Systematic Feature Selection in Turning Processes With Consideration of Uncertainties. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	1.3	22
169	Comparative assessment of dendrite growth and microstructure predictions during laser welding of Al 6061 via 2D and 3D phase field models. <i>Computational Materials Science</i> , 2020, 172, 109291.	1.4	22
170	Laser cladding of aluminum alloy 6061 via off-axis powder injection. <i>Surface and Coatings Technology</i> , 2021, 415, 127099.	2.2	22
171	On the Natural Frequencies of High-Speed Spindles with Angular Contact Bearings. <i>Proceedings of the Institution of Mechanical Engineers Part C Mechanical Engineering Science</i> , 1991, 205, 147-154.	0.3	21
172	Interaction analysis for MIMO nonlinear systems based on a fuzzy basis function network model. <i>Fuzzy Sets and Systems</i> , 2007, 158, 2013-2025.	1.6	21
173	Effect of air breakdown with a focusing lens on ultrashort laser ablation. <i>Applied Physics Letters</i> , 2011, 99, .	1.5	21
174	Laser-plasma interaction and plasma enhancement by ultrashort double-pulse ablation. <i>Applied Physics B: Lasers and Optics</i> , 2015, 120, 81-87.	1.1	21
175	In-situ synthesis of Zr-based bulk metallic glass composites with periodic amorphous-crystalline microstructure for improved ductility via laser direct deposition. <i>Intermetallics</i> , 2019, 111, 106503.	1.8	21
176	Surface roughness evaluation via ultrasonic scanning. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1994, 41, 863-871.	1.7	20
177	Surface Temperature Measurement of Semi-Transparent Ceramics by Long-Wavelength Pyrometry. <i>Journal of Heat Transfer</i> , 2003, 125, 48-56.	1.2	20
178	Laser transformation hardening of Ti-6Al-4V in solid state with accompanying kinetic model. <i>Surface Engineering</i> , 2007, 23, 78-82.	1.1	20
179	Experimental Evaluation of Laser-Assisted Micromilling in a Slotting Configuration. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010, 132, .	1.3	20
180	Multiphysics modeling of phase transformation and microhardness evolution in laser direct deposited Ti6Al4V. <i>Journal of Manufacturing Processes</i> , 2019, 45, 579-587.	2.8	20

#	ARTICLE	IF	CITATIONS
181	Thermo-fluid Topology Optimization and Experimental Study of Conformal Cooling Channels for 3D Printed Plastic Injection Molds. <i>Procedia Manufacturing</i> , 2019, 34, 631-639.	1.9	20
182	Assessment of sub-surface damage during machining of additively manufactured Fe-TiC metal matrix composites. <i>Journal of Materials Processing Technology</i> , 2019, 266, 173-183.	3.1	20
183	Analysis of No. 50 Taper Joint Stiffness Under Axial and Radial Loading. <i>Journal of Manufacturing Processes</i> , 2000, 2, 167-173.	2.8	19
184	Control of Cutting Force for Creep-Feed Grinding Processes Using a Multi-Level Fuzzy Controller. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2007, 129, 480-492.	0.9	19
185	Multi-scale modeling of phase explosion in high fluence nanosecond laser ablation and clarification of ablation depth prediction criterion. <i>Applied Surface Science</i> , 2015, 357, 74-85.	3.1	19
186	A Fuzzy Inverse Model Construction Method for General Monotonic Multi-Input- Single-Output (MISO) Systems. <i>IEEE Transactions on Fuzzy Systems</i> , 2008, 16, 1216-1231.	6.5	18
187	A variational Bayesian framework for group feature selection. <i>International Journal of Machine Learning and Cybernetics</i> , 2013, 4, 609-619.	2.3	18
188	Modeling of unstructured uncertainties and robust controlling of nonlinear dynamic systems based on type-2 fuzzy basis function networks. <i>Engineering Applications of Artificial Intelligence</i> , 2016, 53, 74-85.	4.3	18
189	A statistical analysis of positional errors of a multiaxis machine tool. <i>Precision Engineering</i> , 1992, 14, 139-146.	1.8	17
190	Predictions of thermal conductivity and degradation of irradiated SiC/SiC composites by materials-genome-based multiscale modeling. <i>Journal of Nuclear Materials</i> , 2018, 512, 268-275.	1.3	17
191	Analysis of microstructure and mechanical strength of lap joints of TZM alloy welded by a fiber laser. <i>Journal of Manufacturing Processes</i> , 2019, 39, 146-159.	2.8	17
192	Generalized Intelligent Grinding Advisory System. <i>International Journal of Production Research</i> , 2007, 45, 1899-1932.	4.9	16
193	An Adaptive Fuzzy Controller for Constant Cutting Force in End-Milling Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2008, 130, .	1.3	16
194	Multiscale Finite Element Modeling of Alumina Ceramics Undergoing Laser-Assisted Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2016, 138, .	1.3	16
195	Enhancement of weld strength of laser-welded joints of AA6061-T6 and TZM alloys via novel dual-laser warm laser shock peening. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 104, 907-919.	1.5	16
196	Welding deformation of ultra-thin 316 stainless steel plate using pulsed laser welding process. <i>Optics and Laser Technology</i> , 2019, 119, 105583.	2.2	16
197	Framework of an intelligent grinding process advisor. <i>Journal of Intelligent Manufacturing</i> , 1992, 3, 135-148.	4.4	15
198	A Time Domain Dynamic Simulation Model for Stability Prediction of Infeed Centerless Grinding Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2007, 129, 539-550.	1.3	15

#	ARTICLE	IF	CITATIONS
199	Integration of thermo-dynamic spindle and machining simulation models for a digital machining system. International Journal of Advanced Manufacturing Technology, 2009, 40, 648-661.	1.5	15
200	Low-reflectance laser-induced surface nanostructures created with a picosecond laser. Applied Physics A: Materials Science and Processing, 2016, 122, 1.	1.1	15
201	Dislocation Density-Based Grain Refinement Modeling of Orthogonal Cutting of Commercially Pure Titanium. , 2011, , .		14
202	Multi-level fuzzy control of friction stir welding power. International Journal of Advanced Manufacturing Technology, 2012, 59, 559-567.	1.5	14
203	Effective methods for fabricating trapezoidal shape microchannel of arbitrary dimensions on polymethyl methacrylate (PMMA) substrate by a CO2 laser. International Journal of Advanced Manufacturing Technology, 2017, 93, 1079-1094.	1.5	14
204	A multimodal intelligent monitoring system for turning processes. Journal of Manufacturing Processes, 2018, 35, 547-558.	2.8	14
205	Experimental Complex Modal Analysis of Machine Tool Structures. Journal of Engineering for Industry, 1989, 111, 116-124.	0.8	13
206	Precise selective scribing of thin-film solar cells by a picosecond laser. Applied Physics A: Materials Science and Processing, 2014, 116, 671-681.	1.1	13
207	Coupled Thermomechanical Multiscale Modeling of Alumina Ceramics to Predict Thermally Induced Fractures Under Laser Heating. Journal of the American Ceramic Society, 2015, 98, 920-928.	1.9	13
208	Machinability improvement of gear hobbing via process simulation and tool wear predictions. International Journal of Advanced Manufacturing Technology, 2016, 86, 2771-2779.	1.5	13
209	The effects of interface gap on weld strength during overlapping fiber laser welding of AISI 304 stainless steel and AZ31 magnesium alloys. International Journal of Advanced Manufacturing Technology, 2017, 90, 3685-3696.	1.5	13
210	Predictive modeling of microstructure evolution within multi-phase steels during rolling processes. International Journal of Mechanical Sciences, 2019, 150, 576-583.	3.6	13
211	Framework of a machining advisory system with application to face milling processes. Journal of Intelligent Manufacturing, 1998, 9, 225-234.	4.4	12
212	Ablation Dynamics of Silicon by Femtosecond Laser and the Role of Early Plasma. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2013, 135, .	1.3	12
213	IMPROVING MACHINABILITY OF HIGH CHROMIUM WEAR-RESISTANT MATERIALS VIA LASER-ASSISTED MACHINING. Machining Science and Technology, 2013, 17, 246-269.	1.4	12
214	A Parametric Study on Laser Welding of Magnesium Alloy AZ31 by a Fiber Laser. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	12
215	Multiscale Genome Modeling for Predicting the Thermal Conductivity of Silicon Carbide Ceramics. Journal of the American Ceramic Society, 2016, 99, 4073-4082.	1.9	12
216	A self-tuning fuzzy controller for a class of multi-input multi-output nonlinear systems. Engineering Applications of Artificial Intelligence, 2011, 24, 238-250.	4.3	11

#	ARTICLE	IF	CITATIONS
217	Milling contour error control using multilevel fuzzy controller. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 66, 1641-1655.	1.5	11
218	Robust Wheel Wear Monitoring System for Cylindrical Traverse Grinding. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2220-2229.	3.7	11
219	Mechanics and Modeling of Chip Formation in Machining of MMC. , 2012, , 1-49.		11
220	Thermal modelling and experimental evaluation of laser-assisted dressing of superabrasive grinding wheels. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2007, 221, 605-616.	1.5	10
221	Characteristics of plume plasma and its effects on ablation depth during ultrashort laser ablation of copper in air. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 355204.	1.3	10
222	Fabrication and Characterization of Photonic Crystals in Photopolymer SZ2080 by Two-Photon Polymerization Using a Femtosecond Laser. <i>Journal of Micro and Nano-Manufacturing</i> , 2014, 2, .	0.8	10
223	Investigation on temporal evolution of the grain refinement in copper under high strain rate loading via in-situ synchrotron measurement and predictive modeling. <i>Acta Materialia</i> , 2018, 143, 43-54.	3.8	10
224	Microhole Drilling by Double Laser Pulses With Different Pulse Energies. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018, 140, .	1.3	10
225	Investigation of the Machining Behavior of Ti6Al4V/TiC Composites During Conventional and Laser-Assisted Machining. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019, 141, .	1.3	10
226	Laser cladding of aluminum alloys with concurrent cryogenic quenching for improved microstructure and hardness. <i>Surface and Coatings Technology</i> , 2022, 439, 128460.	2.2	10
227	Recrystallization Textures during Laser-Assisted Machining of Zirconia Ceramics. <i>Materials Science Forum</i> , 2002, 408-412, 1669-1674.	0.3	9
228	A simple two-stage model for the formation and expansion of the plasma induced by high intensity nanosecond laser metal ablation in vacuum. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 371, 128-134.	0.9	9
229	Direct pulsed laser crystallization of nanocrystals for absorbent layers in photovoltaics: Multiphysics simulation and experiment. <i>Journal of Applied Physics</i> , 2013, 113, 193506.	1.1	9
230	Adaptive Robust Control of Circular Machining Contour Error Using Global Task Coordinate Frame. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015, 137, .	1.3	9
231	In Situ Synthesis and Characterization of Zr-Based Amorphous Composite by Laser Direct Deposition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2015, 46, 4316-4325.	1.1	9
232	Laser keyhole welding of stainless steel thin plate stack for applications in fuel cell manufacturing. <i>Science and Technology of Welding and Joining</i> , 2015, 20, 313-318.	1.5	9
233	Multiscale Modeling for Predicting the Mechanical Properties of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 1006-1014.	1.9	9
234	Multi-scale modeling of thermal conductivity of SiC-reinforced aluminum metal matrix composite. <i>Journal of Composite Materials</i> , 2017, 51, 3941-3953.	1.2	9

#	ARTICLE	IF	CITATIONS
235	Multi-scale genome modeling for predicting fracture strength of silicon carbide ceramics. Computational Materials Science, 2018, 141, 10-18.	1.4	9
236	A novel 3D cellular automata-phase field model for computationally efficient dendrite evolution during bulk solidification. Computational Materials Science, 2021, 192, 110405.	1.4	9
237	High throughput synthesis of CoCrFeNiTi high entropy alloys via directed energy deposition. Journal of Alloys and Compounds, 2022, 916, 165469.	2.8	9
238	An In-situ Identification Method for Joint Parameters in Mechanical Structures. Journal of Vibration and Acoustics, Transactions of the ASME, 1999, 121, 363-372.	1.0	8
239	Shock Wave Propagation and Spallation Study in Laser Shock Peening. Journal of Engineering Materials and Technology, Transactions of the ASME, 2010, 132, .	0.8	8
240	Modeling of transport phenomena in direct laser deposition of metal matrix composite. International Journal of Heat and Mass Transfer, 2011, , .	2.5	8
241	Analysis of the effects of microstructure heterogeneity on the mechanical behavior of additively manufactured Ti6Al4V using mechanics of structure genome. Materials and Design, 2021, 204, 109643.	3.3	8
242	High Speed Machining of Titanium Alloys. Materials Science Forum, 2009, 618-619, 159-163.	0.3	7
243	A Multilevel Fuzzy Control Design for a Class of Multiinput Single-Output Systems. IEEE Transactions on Industrial Electronics, 2012, 59, 3113-3123.	5.2	7
244	Laser and Photonic Systems Integration: Emerging Innovations and Framework for Research and Education. Human Factors and Ergonomics in Manufacturing, 2013, 23, 483-516.	1.4	7
245	Adaptive robust control of machining force and contour error with tool deflection using global task coordinate frame. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2018, 232, 40-50.	1.5	7
246	Prediction of 3D microstructure and phase distributions of Ti6Al4V built by the directed energy deposition process via combined multi-physics models. Additive Manufacturing, 2020, 34, 101234.	1.7	7
247	Thermodynamically consistent phase-field modeling of competitive polycrystalline growth of beta grains during additive manufacturing of Ti6Al4V. Journal of Crystal Growth, 2021, 564, 126112.	0.7	7
248	Design and implementation of tool wear monitoring with radial basis function neural networks. , 0, , .		6
249	An in situ modal-based method for structural dynamic joint parameter identification. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2000, 214, 641-653.	1.1	6
250	Experimental Identification of Dynamic Parameters of Rolling Element Bearings in Machine Tools. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2000, 122, 95-101.	0.9	6
251	Construction of fuzzy basis function networks using adaptive least squares method. , 0, , .		6
252	Occurrence of Polytype Transformation during Nitrogen Doping of SiC Bulk Wafer. Materials Science Forum, 2008, 600-603, 39-42.	0.3	6

#	ARTICLE	IF	CITATIONS
253	Observer-based adaptive robust control of friction stir welding axial force. , 2010, , .		6
254	Robust optimisation of machining conditions with tool life and surface roughness uncertainties. International Journal of Production Research, 2011, 49, 3963-3978.	4.9	6
255	Laser Machining and Laser-Assisted Machining of Ceramics. , 2014, , 219-234.		6
256	Special issue on Additive manufacturing: progress in modeling and simulation with experimental validations in additive manufacturing. Computational Mechanics, 2018, 61, 519-520.	2.2	6
257	Crack formation within ceramics via coupled multiscale genome and XFEM predictions under various loading conditions. Engineering Fracture Mechanics, 2018, 204, 517-530.	2.0	6
258	An adaptive Gaussian mixture method for nonlinear uncertainty propagation in neural networks. Neurocomputing, 2021, 458, 170-183.	3.5	6
259	Multi-track, multi-layer dendrite growth and solid phase transformation analysis during additive manufacturing of H13 tool steel using a combined hybrid cellular automata/phase field, solid-state phase prediction models. International Journal of Advanced Manufacturing Technology, 2022, 120, 2089-2108.	1.5	6
260	Adaptive Control of Nonminimum Phase Processes with Application to the End Milling Process. , 1993, , .		5
261	Modeling of Complex Manufacturing Processes by Hierarchical Fuzzy Basis Function Networks With Application to Grinding Processes. Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME, 2004, 126, 880-890.	0.9	5
262	Laser-Assisted Machining of a Fiber Reinforced Metal Matrix Composite. , 2009, , .		5
263	Etching of long fiber polymeric composite materials by nanosecond laser induced water breakdown plasma. Applied Surface Science, 2013, 268, 6-10.	3.1	5
264	Control of Ablation Depth and Surface Structure in P3 Scribing of Thin-Film Solar Cells by a Picosecond Laser. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	5
265	Laser cladding of Stellite-6 with a coaxial nozzle via modeling and systematic experimental investigations. International Journal of Advanced Manufacturing Technology, 2021, 113, 837-853.	1.5	5
266	Data-driven phase recognition of steels for use in mechanical property prediction. Manufacturing Letters, 2021, 30, 27-31.	1.1	5
267	A Data-Driven Approach of Takagi-Sugeno Fuzzy Control of Unknown Nonlinear Systems. Applied Sciences (Switzerland), 2021, 11, 62.	1.3	5
268	Data-Driven Modeling of Mechanical Properties for 17-4 PH Stainless Steel Built by Additive Manufacturing. Integrating Materials and Manufacturing Innovation, 2022, 11, 241-255.	1.2	5
269	A probabilistic neural network for uncertainty prediction with applications to manufacturing process monitoring. Applied Soft Computing Journal, 2022, 124, 108995.	4.1	5
270	Control of Chips in the Turning of 4150 by Using an Obstruction Type Chip Breaker. Journal of Engineering for Industry, 1993, 115, 160-163.	0.8	4

#	ARTICLE	IF	CITATIONS
271	ANALYSIS OF THREE-DIMENSIONAL MACHINING USING AN EXTENDED OBLIQUE MACHINING THEORY. <i>Machining Science and Technology</i> , 2002, 6, 187-213.	1.4	4
272	Laser Cladding of Two Hardfacing Alloys Onto Cylindrical Low Alloy Steel Substrates With a High Power Direct Diode Laser. , 2007, , 343.		4
273	Machine Tools. , 2007, , 243-258.		4
274	Optimization of Laser Hardening Processes for Industrial Parts With Complex Geometry via Predictive Modeling. , 2009, , .		4
275	Nonlinear discrete time optimal control based on Fuzzy Models. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 29, 647-658.	0.8	4
276	Crystalline photoactive copper indium diselenide thin films by pulsed laser crystallization of nanoparticle-inks at ambient conditions. <i>RSC Advances</i> , 2015, 5, 57550-57558.	1.7	4
277	Modeling and robust controlling of laser welding process on high strength titanium alloy using fuzzy basis function networks and robust Takagi-Sugeno fuzzy controller. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 89, 1089-1102.	1.5	4
278	Manufacturing of hourglass-shaped through holes with varying diameters at different depths by dual-pulse laser drilling and laser-induced plasma-hole interaction. <i>Manufacturing Letters</i> , 2018, 16, 18-22.	1.1	4
279	Comparative Assessment of Physics-Based Computational Models on the NIST Benchmark Study of Molten Pool Dimensions and Microstructure for Selective Laser Melting of Inconel 625. <i>Integrating Materials and Manufacturing Innovation</i> , 2021, 10, 58-71.	1.2	4
280	Molecular Dynamics Study of Bulk Properties of Polycrystalline NiTi. <i>Metals</i> , 2021, 11, 1237.	1.0	4
281	An Experimental Evaluation of Laser-Assisted Micromilling of Two Difficult to Machine Alloys. , 2008, , .		3
282	Investigation on Weld Pool Dynamics in Laser Welding of AISI 304 Stainless Steel With an Interface Gap Via a Three-Dimensional Dynamic Model and Experiments. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2017, 139, .	1.3	3
283	Investigation on the Effects of Process Parameters on Defect Formation in Friction Stir Welded Samples via Predictive Numerical Modeling and Experiments. , 2017, , .		3
284	Prediction of initial transient behavior with stationary heating during laser powder bed fusion processes. <i>International Journal of Heat and Mass Transfer</i> , 2020, 153, 119663.	2.5	3
285	A crystal plasticity finite element-based approach to model the constitutive behavior of multi-phase steels. <i>Archives of Civil and Mechanical Engineering</i> , 2021, 21, 1.	1.9	3
286	Design and evaluation of three-dimensional axisymmetric mechanical metamaterial exhibiting negative Poisson's ratio. <i>Journal of Materials Research and Technology</i> , 2022, 19, 1390-1406.	2.6	3
287	A Gaussian mixture filter with adaptive refinement for nonlinear state estimation. <i>Signal Processing</i> , 2022, 201, 108677.	2.1	3
288	System Identification of Multivariate Systems With Feedback. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1990, 112, 283-291.	0.9	2

#	ARTICLE	IF	CITATIONS
289	Design of an optimal damper to minimize the vibration of machine tool structures subject to random excitation. <i>Engineering With Computers</i> , 1991, 7, 199-208.	3.5	2
290	Measurement and characterization of milled surface profiles using ultrasonic waves. <i>Measurement: Journal of the International Measurement Confederation</i> , 1996, 17, 59-72.	2.5	2
291	A Study on the High Speed Face Milling of Ti-6Al-4V Alloy. , 2002, , 277.		2
292	Laser-Assisted Milling of Silicon Nitride Ceramics. , 2006, , 79.		2
293	A Parametric Study on Overlapping Laser Shock Peening of 4140 Steel via Modeling and Experiments. , 2008, , .		2
294	Modeling of the Off-Axis High Power Diode Laser (HPDL) Cladding Process. , 2009, , .		2
295	Numerical Modeling of Transport Phenomena and Dendritic Growth in Laser Conduction Welding of 304 Stainless Steel. , 2011, , .		2
296	A Metallo-Thermo-Mechanically Coupled Analysis of Orthogonal Cutting of AISI 1045 Steel. , 2012, , .		2
297	Modeling of picosecond laser-induced plasma amplification inside a microhole and an implied novel technology to drill microholes with varying diameters with depth. <i>Manufacturing Letters</i> , 2016, 7, 1-5.	1.1	2
298	Ultrafast Laser Applications in Manufacturing Processes: A State of the Art Review. , 2019, , .		2
299	Extended mechanics of structural genome for predicting mechanical properties of additively manufactured Ti6Al4V considering porosity and microstructure. <i>Mechanics of Materials</i> , 2022, 169, 104300.	1.7	2
300	In-process control of surface roughness with tool wear via ultrasonic sensing. , 0, , .		1
301	State estimation of continuous-time radial basis function networks. <i>Automatica</i> , 2000, 36, 399-407.	3.0	1
302	Surface Temperature Measurement of Semi-Transparent Ceramics by Long-Wavelength Pyrometry. , 2002, , 137.		1
303	An Adaptive Fuzzy Controller for Constant Cutting Force in End-Milling Processes. , 2006, , 683.		1
304	A multi-level fuzzy control design for general nonlinear multi-input single-output systems. , 2008, , .		1
305	A Unified Simple Predictive Model for High Fluence Ultra-Short Pulsed Laser Ablation of Metal, Semiconductor and Dielectric. , 2009, , .		1
306	Laser assisted machining: Its potential and future. , 2010, , .		1

#	ARTICLE	IF	CITATIONS
307	Experimental and Modeling Analysis of Micro-Milling of Hardened H13 Tool Steel. , 2011, , .		1
308	Adaptive Robust Control of Circular Machining Contour Error Using Global Task Coordinate Frame. , 2013, , .		1
309	Fabrication and Characterization of Photonic Crystals by Two-Photon Polymerization Using a Femtosecond Laser. , 2013, , .		1
310	Multi-Scale Finite Element Modeling of Alumina Ceramics Undergoing Laser-Assisted Machining. , 2014, , .		1
311	Modeling Particle Spray and Capture Efficiency for Direct Laser Deposition Using a Four Nozzle Powder Injection System. , 2017, , .		1
312	A Framework for Estimating Mold Performance Using Experimental and Numerical Analysis of Injection Mold Tooling Prototypes. Conference Proceedings of the Society for Experimental Mechanics, 2019, , 71-76.	0.3	1
313	State estimation of continuous time radial basis function networks. , 0, , .		0
314	Issues on the discrete implementation frequency domain controller-design. , 1998, , .		0
315	Multi-Phase Finite Element Modeling of Machining Unidirectional Fiber Reinforced Composites. , 2007, , 259.		0
316	A Fuzzy Inverse Model Construction Method for a General MISO System with a Monotonic Input-output Relationship. , 2007, , .		0
317	Micromachining of Metals, Alloys and Ceramics by Picosecond Laser Ablation. , 2008, , .		0
318	Shock Wave Propagation and Spallation Study in Laser Shock Peening. , 2009, , .		0
319	Comprehensive predictive modeling and parametric analysis of multi-track direct laser deposition processes. , 2010, , .		0
320	Investigation of Early Plasma Evolution Induced by Ultrashort Laser Pulses. Journal of Visualized Experiments, 2012, , .	0.2	0
321	Analysis of nanosecond laser ablation of aluminum with and without phase explosion in air and water. , 2012, , .		0
322	Ablation Dynamics of Silicon by Femtosecond Laser and the Role of Early Plasma. , 2013, , .		0
323	A Parametric Study on Laser Welding of Magnesium Alloy AZ31 by a Fiber Laser. , 2014, , .		0
324	Control of Ablation Depth and Surface Structure in P3 Scribing of Thin-Film Solar Cells by a Picosecond Laser. , 2014, , .		0

#	ARTICLE	IF	CITATIONS
325	Amplification of Plasma at Different Initial Temperatures inside a Microhole by a Short Laser Pulse and the Effect on the Hole Sidewall. <i>Procedia Manufacturing</i> , 2016, 5, 724-733.	1.9	0
326	Time-Domain Chatter Simulation in Transient State Milling. <i>Journal of the Korean Society of Manufacturing Technology Engineers</i> , 2021, 30, 286-294.	0.1	0
327	A STABLE HIERARCHICAL FUZZY CONTROL DESIGN FOR CERTAIN NON-LINEAR SYSTEMS BASED ON INPUT-OUTPUT PASSIVITY THEORY. <i>Control and Intelligent Systems</i> , 2009, 37, .	0.3	0
328	The Investigation of the Sensitivity and Direction of the Maximum Surface Error in Peripheral Milling. <i>Journal of the Korean Society for Precision Engineering</i> , 2021, 38, 795-806.	0.1	0