

Yung C Shin

List of Publications by Year in Descending Order

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

307 papers	11,920 citations	56 h-index	97 g-index
329 ext. papers	13,904 ext. citations	4.3 avg, IF	7.23 L-index

#	Paper	IF	Citations
307	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. <i>International Journal of Advanced Manufacturing Technology</i> , 2022 , 120, 2089	3.2	0
306	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	3.3	0
305	Laser cladding of aluminum alloys with concurrent cryogenic quenching for improved microstructure and hardness. <i>Surface and Coatings Technology</i> , 2022 , 439, 128460	4.4	1
304	A probabilistic neural network for uncertainty prediction with applications to manufacturing process monitoring. <i>Applied Soft Computing Journal</i> , 2022 , 108995	7.5	2
303	High throughput synthesis of CoCrFeNiTi high entropy alloys via directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2022 , 916, 165469	5.7	2
302	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	0.3	
301	A Data-Driven Approach of Takagi-Sugeno Fuzzy Control of Unknown Nonlinear Systems. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 62	2.6	1
300	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	3.4	1
299	A novel 3D cellular automata-phase field model for computationally efficient dendrite evolution during bulk solidification. <i>Computational Materials Science</i> , 2021 , 192, 110405	3.2	3
298	Thermodynamically consistent phase-field modeling of competitive polycrystalline growth of beta grains during additive manufacturing of Ti6Al4V. <i>Journal of Crystal Growth</i> , 2021 , 564, 126112	1.6	2
297	Laser cladding of aluminum alloy 6061 via off-axis powder injection. <i>Surface and Coatings Technology</i> , 2021 , 415, 127099	4.4	9
296	Analysis of the effects of microstructure heterogeneity on the mechanical behavior of additively manufactured Ti6Al4V using mechanics of structure genome. <i>Materials and Design</i> , 2021 , 204, 109643	8.1	4
295	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	2.9	1
294	Molecular Dynamics Study of Bulk Properties of Polycrystalline NiTi. <i>Metals</i> , 2021 , 11, 1237	2.3	0
293	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
292	An adaptive Gaussian mixture method for nonlinear uncertainty propagation in neural networks. <i>Neurocomputing</i> , 2021 , 458, 170-183	5.4	2
291	Laser cladding of Stellite-6 with a coaxial nozzle via modeling and systematic experimental investigations. <i>International Journal of Advanced Manufacturing Technology</i> , 2021 , 113, 837-853	3.2	1

290	Mechanical breathing in organic electrochromics. <i>Nature Communications</i> , 2020 , 11, 211	17.4	18
289	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	3.2	6
288	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	4.9	1
287	Prediction of 3D microstructure and phase distributions of Ti6Al4V built by the directed energy deposition process via combined multi-physics models. <i>Additive Manufacturing</i> , 2020 , 34, 101234	6.1	3
286	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
285	Overview of Laser Applications in Manufacturing and Materials Processing in Recent Years. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2020 , 142,	3.3	10
284	Deep-learning-based porosity monitoring of laser welding process. <i>Manufacturing Letters</i> , 2020 , 23, 62-66	6.5	17
283	Integrated 2D cellular automata-phase field modeling of solidification and microstructure evolution during additive manufacturing of Ti6Al4V. <i>Computational Materials Science</i> , 2020 , 183, 109889	3.2	7
282	Robust Wheel Wear Monitoring System for Cylindrical Traverse Grinding. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020 , 25, 2220-2229	5.5	4
281	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	3.2	14
280	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	1.5	6
279	Effects of Composition and Post Heat Treatment on Shape Memory Characteristics and Mechanical Properties for Laser Direct Deposited Nitinol. <i>Lasers in Manufacturing and Materials Processing</i> , 2019 , 6, 41-58	2.1	9
278	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	3.5	13
277	In-Process monitoring of porosity during laser additive manufacturing process. <i>Additive Manufacturing</i> , 2019 , 28, 497-505	6.1	78
276	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	3.2	10
275	Welding deformation of ultra-thin 316 stainless steel plate using pulsed laser welding process. <i>Optics and Laser Technology</i> , 2019 , 119, 105583	4.2	8
274	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	5	13
273	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,	3.3	6

272	A Framework for Estimating Mold Performance Using Experimental and Numerical Analysis of Injection Mold Tooling Prototypes. <i>Conference Proceedings of the Society for Experimental Mechanics</i> , 2019 , 71-76	0.3	
271	Multiphysics modeling of phase transformation and microhardness evolution in laser direct deposited Ti6Al4V. <i>Journal of Manufacturing Processes</i> , 2019 , 45, 579-587	5	15
270	Effects of interface gap and shielding gas on the quality of alloy AA6061 fiber laser lap weldings. <i>Journal of Materials Processing Technology</i> , 2019 , 268, 201-212	5.3	16
269	Additive manufacturing of Ti6Al4V alloy: A review. <i>Materials and Design</i> , 2019 , 164, 107552	8.1	750
268	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	5.3	8
267	Predictive modeling of microstructure evolution within multi-phase steels during rolling processes. <i>International Journal of Mechanical Sciences</i> , 2019 , 150, 576-583	5.5	6
266	Self-Sufficient Modeling of Single Track Deposition of Ti6Al4V With the Prediction of Capture Efficiency. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2019 , 141,	3.3	20
265	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
264	Special issue on Additive manufacturing: progress in modeling and simulation with experimental validations in additive manufacturing. <i>Computational Mechanics</i> , 2018 , 61, 519-520	4	4
263	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	4.5	4
262	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
261	Modeling Particle Spray and Capture Efficiency for Direct Laser Deposition Using a Four Nozzle Powder Injection System. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	18
260	Adaptive robust control of machining force and contour error with tool deflection using global task coordinate frame. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018 , 232, 40-50	2.4	5
259	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	8.4	7
258	Multi-scale genome modeling for predicting fracture strength of silicon carbide ceramics. <i>Computational Materials Science</i> , 2018 , 141, 10-18	3.2	8
257	Microhole Drilling by Double Laser Pulses With Different Pulse Energies. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2018 , 140,	3.3	5
256	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,	3.3	14
255	Wideband anti-reflective silicon surface structures fabricated by femtosecond laser texturing. <i>Applied Surface Science</i> , 2018 , 459, 86-91	6.7	18

254	Crack formation within ceramics via coupled multiscale genome and XFEM predictions under various loading conditions. <i>Engineering Fracture Mechanics</i> , 2018 , 204, 517-530	4.2	5
253	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	3.3	9
252	A multimodal intelligent monitoring system for turning processes. <i>Journal of Manufacturing Processes</i> , 2018 , 35, 547-558	5	7
251	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
250	Comprehensive modeling of transport phenomena in laser hot-wire deposition process. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 125, 1356-1368	4.9	23
249	Molecular dynamics-based cohesive zone representation of Ti6Al4V/TiC composite interface. <i>Materials and Design</i> , 2018 , 155, 161-169	8.1	23
248	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
247	Superhydrophobic contoured surfaces created on metal and polymer using a femtosecond laser. <i>Applied Surface Science</i> , 2017 , 405, 465-475	6.7	46
246	Multi-scale modeling of thermal conductivity of SiC-reinforced aluminum metal matrix composite. <i>Journal of Composite Materials</i> , 2017 , 51, 3941-3953	2.7	6
245	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
244	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,	3.3	3
243	Effective methods for fabricating trapezoidal shape microchannel of arbitrary dimensions on polymethyl methacrylate (PMMA) substrate by a CO2 laser. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 93, 1079-1094	3.2	9
242	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	3.2	2
241	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
240	Investigation on the Effects of Process Parameters on Defect Formation in Friction Stir Welded Samples via Predictive Numerical Modeling and Experiments 2017 ,		2
239	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
238	Modeling Particle Spray and Capture Efficiency for Direct Laser Deposition Using a Four Nozzle Powder Injection System 2017 ,		1
237	The effects of interface gap on weld strength during overlapping fiber laser welding of AISI 304 stainless steel and AZ31 magnesium alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2017 , 90, 3685-3696	3.2	9

236	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
235	Multiscale Genome Modeling for Predicting the Thermal Conductivity of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 4073-4082	3.8	8
234	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,	3.3	13
233	Machinability improvement of gear hobbing via process simulation and tool wear predictions. <i>International Journal of Advanced Manufacturing Technology</i> , 2016 , 86, 2771-2779	3.2	8
232	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	4.5	2
231	Multiscale Modeling for Predicting the Mechanical Properties of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2016 , 99, 1006-1014	3.8	7
230	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
229	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	1.5	
228	Low-reflectance laser-induced surface nanostructures created with a picosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2016 , 122, 1	2.6	10
227	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	7.2	15
226	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
225	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
224	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,	3.3	8
223	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	7.2	17
222	The status, challenges, and future of additive manufacturing in engineering. <i>CAD Computer Aided Design</i> , 2015 , 69, 65-89	2.9	1187
221	A Parametric Study on Laser Welding of Magnesium Alloy AZ31 by a Fiber Laser. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2015 , 137,	3.3	9
220	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
219	Laser-plasma interaction and plasma enhancement by ultrashort double-pulse ablation. <i>Applied Physics B: Lasers and Optics</i> , 2015 , 120, 81-87	1.9	17

218	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	2.3	7
217	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	3.7	6
216	Coupled Thermomechanical Multiscale Modeling of Alumina Ceramics to Predict Thermally Induced Fractures Under Laser Heating. <i>Journal of the American Ceramic Society</i> , 2015 , 98, 920-928	3.8	12
215	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	6.7	13
214	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	3.7	4
213	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
212	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
211	Nonlinear discrete time optimal control based on Fuzzy Models. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015 , 29, 647-658	1.6	4
210	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	2.1	16
209	Precise selective scribing of thin-film solar cells by a picosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2014 , 116, 671-681	2.6	12
208	Ablation enhancement of silicon by ultrashort double-pulse laser ablation. <i>Applied Physics Letters</i> , 2014 , 105, 111907	3.4	34
207	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
206	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
205	Control of Ablation Depth and Surface Structure in P3 Scribing of Thin-Film Solar Cells by a Picosecond Laser. <i>Journal of Micro and Nano-Manufacturing</i> , 2014 , 2,	1.3	2
204	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
203	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
202	Laser Machining and Laser-Assisted Machining of Ceramics 2014 , 219-234		4
201	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,	1.3	6

200	Multi-Scale Finite Element Modeling of Alumina Ceramics Undergoing Laser-Assisted Machining 2014 ,		1
199	A variational Bayesian framework for group feature selection. <i>International Journal of Machine Learning and Cybernetics</i> , 2013 , 4, 609-619	3.8	16
198	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
197	Milling contour error control using multilevel fuzzy controller. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 66, 1641-1655	3.2	7
196	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
195	Etching of long fiber polymeric composite materials by nanosecond laser induced water breakdown plasma. <i>Applied Surface Science</i> , 2013 , 268, 6-10	6.7	3
194	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
193	Improvement of machinability of Waspaloy via laser-assisted machining. <i>International Journal of Advanced Manufacturing Technology</i> , 2013 , 64, 475-486	3.2	53
192	Ball end milling mechanistic model based on a voxel-based geometric representation and a ray casting technique. <i>Journal of Manufacturing Processes</i> , 2013 , 15, 338-347	5	16
191	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
190	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
189	A data-based framework for fault detection and diagnostics of non-linear systems with partial state measurement. <i>Engineering Applications of Artificial Intelligence</i> , 2013 , 26, 446-455	7.2	15
188	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
187	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
186	Adaptive Robust Control of Circular Machining Contour Error Using Global Task Coordinate Frame 2013 ,		1
185	Ablation Dynamics of Silicon by Femtosecond Laser and the Role of Early Plasma. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2013 , 135,	3.3	7
184	IMPROVING MACHINABILITY OF HIGH CHROMIUM WEAR-RESISTANT MATERIALS VIA LASER-ASSISTED MACHINING. <i>Machining Science and Technology</i> , 2013 , 17, 246-269	2	8
183	Direct pulsed laser crystallization of nanocrystals for absorbent layers in photovoltaics: Multiphysics simulation and experiment. <i>Journal of Applied Physics</i> , 2013 , 113, 193506	2.5	9

182	Laser and Photonic Systems Integration: Emerging Innovations and Framework for Research and Education. <i>Human Factors and Ergonomics in Manufacturing</i> , 2013 , 23, 483-516	1.4	4
181	Laser deposited coatings of Co-Cr-Mo onto Ti-6Al-4V and SS316L substrates for biomedical applications. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013 , 101, 1124-32	3.5	17
180	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
179	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
178	Predictive modeling of grain refinement during multi-pass cold rolling. <i>Journal of Materials Processing Technology</i> , 2012 , 212, 1003-1013	5.3	33
177	A Multilevel Fuzzy Control Design for a Class of Multiinput Single-Output Systems. <i>IEEE Transactions on Industrial Electronics</i> , 2012 , 59, 3113-3123	8.9	6
176	In Situ Synthesis and Characterization of Shape Memory Alloy Nitinol by Laser Direct Deposition. <i>Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science</i> , 2012 , 43, 650-657	2.3	46
175	Multi-level fuzzy control of friction stir welding power. <i>International Journal of Advanced Manufacturing Technology</i> , 2012 , 59, 559-567	3.2	10
174	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
173	Modeling of machining of composite materials: A review. <i>International Journal of Machine Tools and Manufacture</i> , 2012 , 57, 102-121	9.4	286
172	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
171	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
170	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	3	7
169	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
168	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
167	A Metallo-Thermo-Mechanically Coupled Analysis of Orthogonal Cutting of AISI 1045 Steel 2012 ,		1
166	Mechanics and Modeling of Chip Formation in Machining of MMC 2012 , 1-49		6
165	Early-stage plasma dynamics with air ionization during ultrashort laser ablation of metal. <i>Physics of Plasmas</i> , 2011 , 18, 093302	2.1	34

164	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
163	Modeling of grain refinement in aluminum and copper subjected to cutting. <i>Computational Materials Science</i> , 2011 , 50, 3016-3025	3.2	121
162	Molecular dynamics based cohesive zone law for describing AlSiC interface mechanics. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011 , 42, 355-363	8.4	126
161	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
160	Modeling of transport phenomena in direct laser deposition of metal matrix composite. <i>International Journal of Heat and Mass Transfer</i> , 2011 ,	4.9	5
159	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
158	Vision-based clad height measurement. <i>Machine Vision and Applications</i> , 2011 , 22, 129-136	2.8	21
157	Multiscale Modeling of Transport Phenomena and Dendritic Growth in Laser Cladding Processes. <i>Metallurgical and Materials Transactions B: Process Metallurgy and Materials Processing Science</i> , 2011 , 42, 1306-1318	2.5	35
156	A self-tuning fuzzy controller for a class of multi-input multi-output nonlinear systems. <i>Engineering Applications of Artificial Intelligence</i> , 2011 , 24, 238-250	7.2	6
155	Robust optimisation of machining conditions with tool life and surface roughness uncertainties. <i>International Journal of Production Research</i> , 2011 , 49, 3963-3978	7.8	6
154	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	8.6	41
153	An experimental and numerical study on the face milling of TiB ₂ Al ₂ V alloy: Tool performance and surface integrity. <i>Journal of Materials Processing Technology</i> , 2011 , 211, 294-304	5.3	83
152	Effect of air breakdown with a focusing lens on ultrashort laser ablation. <i>Applied Physics Letters</i> , 2011 , 99, 234104	3.4	13
151	Comprehensive predictive modeling and parametric analysis of multitrack direct laser deposition processes. <i>Journal of Laser Applications</i> , 2011 , 23, 022003	2.1	30
150	Experimental and Modeling Analysis of Micro-Milling of Hardened H13 Tool Steel 2011 ,		1
149	Modeling of the Off-Axis High Power Diode Laser Cladding Process. <i>Journal of Heat Transfer</i> , 2011 , 133,	1.8	32
148	Experimental Evaluation and Modeling Analysis of Micromilling of Hardened H13 Tool Steels. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2011 , 133,	3.3	28
147	Numerical Modeling of Transport Phenomena and Dendritic Growth in Laser Conduction Welding of 304 Stainless Steel 2011 ,		1

146	Dislocation Density-Based Grain Refinement Modeling of Orthogonal Cutting of Commercially Pure Titanium 2011 ,		8
145	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
144	Laser assisted machining: Its potential and future 2010 ,		1
143	Observer-based adaptive robust control of friction stir welding axial force 2010 ,		5
142	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
141	Experimental Evaluation of Laser-Assisted Micromilling in a Slotting Configuration. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2010 , 132,	3.3	16
140	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
139	Shock Wave Propagation and Spallation Study in Laser Shock Peening. <i>Journal of Engineering Materials and Technology, Transactions of the ASME</i> , 2010 , 132,	1.8	7
138	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
137	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
136	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
135	Modeling of transport phenomena during the coaxial laser direct deposition process. <i>Journal of Applied Physics</i> , 2010 , 108, 044908	2.5	116
134	Energy transport analysis in ultrashort pulse laser ablation through combined molecular dynamics and Monte Carlo simulation. <i>Physical Review B</i> , 2010 , 82,	3.3	18
133	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
132	Constructive training of recurrent neural networks using hybrid optimization. <i>Neurocomputing</i> , 2010 , 73, 2624-2631	5.4	19
131	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
130	Machinability improvement of titanium alloy (Ti-6Al-4V) via LAM and hybrid machining. <i>International Journal of Machine Tools and Manufacture</i> , 2010 , 50, 174-182	9.4	238
129	MICROSTRUCTURAL ANALYSIS AND MACHINABILITY IMPROVEMENT OF UDIMET 720 VIA CRYOGENIC MILLING. <i>Machining Science and Technology</i> , 2009 , 13, 1-19	2	26

128	A Unified Simple Predictive Model for High Fluence Ultra-Short Pulsed Laser Ablation of Metal, Semiconductor and Dielectric 2009 ,		1
127	High Speed Machining of Titanium Alloys. <i>Materials Science Forum</i> , 2009 , 618-619, 159-163	0.4	5
126	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
125	Integration of thermo-dynamic spindle and machining simulation models for a digital machining system. <i>International Journal of Advanced Manufacturing Technology</i> , 2009 , 40, 648-661	3.2	12
124	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
123	Adaptive divided difference filtering for simultaneous state and parameter estimation. <i>Automatica</i> , 2009 , 45, 1686-1693	5.7	50
122	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
121	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
120	Optimization of Laser Hardening Processes for Industrial Parts With Complex Geometry via Predictive Modeling 2009 ,		4
119	Laser-Assisted Machining of a Fiber Reinforced Metal Matrix Composite 2009 ,		5
118	Modeling of the Off-Axis High Power Diode Laser (HPDL) Cladding Process 2009 ,		2
117	Occurrence of Polytype Transformation during Nitrogen Doping of SiC Bulk Wafer. <i>Materials Science Forum</i> , 2008 , 600-603, 39-42	0.4	5
116	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
115	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
114	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,	3.3	10
113	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
112	A Parametric Study on Overlapping Laser Shock Peening of 4140 Steel via Modeling and Experiments 2008 ,		1
111	An Experimental Evaluation of Laser-Assisted Micromilling of Two Difficult to Machine Alloys 2008 ,		3

110	Generalized practical models of cylindrical plunge grinding processes. <i>International Journal of Machine Tools and Manufacture</i> , 2008 , 48, 61-72	9.4	40
109	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
108	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	8.3	14
107	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	2.4	9
106	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
105	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
104	A simple model for high fluence ultra-short pulsed laser metal ablation. <i>Applied Surface Science</i> , 2007 , 253, 4079-4084	6.7	32
103	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
102	Laser-assisted burnishing of metals. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 14-22	9.4	55
101	Predictive modeling of laser hardening of AISI5150H steels. <i>International Journal of Machine Tools and Manufacture</i> , 2007 , 47, 307-320	9.4	35
100	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
99	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	2.3	8
98	Laser transformation hardening of TiBAlV in solid state with accompanying kinetic model. <i>Surface Engineering</i> , 2007 , 23, 78-82	2.6	15
97	Multi-Phase Finite Element Modeling of Machining Unidirectional Fiber Reinforced Composites 2007 , 259		
96	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	1.6	17
95	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, 287-293	3.3	47
94	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	3.3	11
93	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, 117-125	3.3	28

92	Generalized Intelligent Grinding Advisory System. <i>International Journal of Production Research</i> , 2007 , 45, 1899-1932	7.8	14
91	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
90	Laser Cladding of Two Hardfacing Alloys Onto Cylindrical Low Alloy Steel Substrates With a High Power Direct Diode Laser 2007 , 343		4
89	Machine Tools 2007 , 243-258		3
88	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
87	An Adaptive Fuzzy Controller for Constant Cutting Force in End-Milling Processes 2006 , 683		0
86	A Time-Domain Dynamic Model for Chatter Prediction of Cylindrical Plunge Grinding Processes. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 2006 , 128, 404-415	3.3	28
85	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	3.3	79
84	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
83	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
82	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
81	Modeling of nanosecond laser ablation with vapor plasma formation. <i>Journal of Applied Physics</i> , 2006 , 99, 084310	2.5	45
80	Laser pulse transmission through the water breakdown plasma in laser shock peening. <i>Applied Physics Letters</i> , 2006 , 88, 041116	3.4	34
79	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
78	Laser-Assisted Milling of Silicon Nitride Ceramics 2006 , 79		1
77	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
76	Laser-assisted machining of compacted graphite iron. <i>International Journal of Machine Tools and Manufacture</i> , 2006 , 46, 7-17	9.4	84
75	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

74	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
73	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
72	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
71	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
70	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
69	Modeling of Complex Manufacturing Processes by Hierarchical Fuzzy Basis Function Networks With Application to Grinding Processes. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2004 , 126, 880-890	1.6	3
68	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
67	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
66	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
65	Surface Temperature Measurement of Semi-Transparent Ceramics by Long-Wavelength Pyrometry. <i>Journal of Heat Transfer</i> , 2003 , 125, 48-56	1.8	18
64	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
63	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
62	Construction of fuzzy systems using least-squares method and genetic algorithm. <i>Fuzzy Sets and Systems</i> , 2003 , 137, 297-323	3.7	33
61	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
60	Hybrid machining of Inconel 718. <i>International Journal of Machine Tools and Manufacture</i> , 2003 , 43, 1391-1396	9.4	122
59	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
58	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
57	Recrystallization Textures during Laser-Assisted Machining of Zirconia Ceramics. <i>Materials Science Forum</i> , 2002 , 408-412, 1669-1674	0.4	8

56	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
55	Surface Temperature Measurement of Semi-Transparent Ceramics by Long-Wavelength Pyrometry 2002 , 137		1
54	A Study on the High Speed Face Milling of Ti-6Al-4V Alloy 2002 , 277		1
53	ANALYSIS OF THREE-DIMENSIONAL MACHINING USING AN EXTENDED OBLIQUE MACHINING THEORY. <i>Machining Science and Technology</i> , 2002 , 6, 187-213	2	4
52	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	9.4	111
51	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
50	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
49	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
48	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	4.9	66
47	Analysis of No. 50 Taper Joint Stiffness Under Axial and Radial Loading. <i>Journal of Manufacturing Processes</i> , 2000 , 2, 167-173	5	15
46	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
45	State estimation of continuous-time radial basis function networks. <i>Automatica</i> , 2000 , 36, 399-407	5.7	1
44	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
43	An in situ modal-based method for structural dynamic joint parameter identification. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2000 , 214, 641-653	1.3	5
42	Experimental Identification of Dynamic Parameters of Rolling Element Bearings in Machine Tools. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 2000 , 122, 95-101	1.6	4
41	Evolutionary modelling and optimization of grinding processes. <i>International Journal of Production Research</i> , 2000 , 38, 2787-2813	7.8	29
40	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
39	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

38	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
37	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
36	An In-situ Identification Method for Joint Parameters in Mechanical Structures. <i>Journal of Vibration and Acoustics, Transactions of the ASME</i> , 1999 , 121, 363-372	1.6	7
35	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
34	Framework of a machining advisory system with application to face milling processes. <i>Journal of Intelligent Manufacturing</i> , 1998 , 9, 225-234	6.7	9
33	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
32	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
31	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. <i>Journal of Heat Transfer</i> , 1998 , 120, 907-915	1.8	23
30	Dynamics of Machine Tool Spindle/Bearing Systems Under Thermal Growth. <i>Journal of Tribology</i> , 1997 , 119, 875-882	1.8	70
29	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
28	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
27	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
26	SURFACE TEMPERATURE MEASUREMENT IN LASER-ASSISTED MACHINING PROCESSES. <i>Experimental Heat Transfer</i> , 1997 , 10, 291-313	2.4	19
25	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
24	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
23	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
22	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	9.4	61
21	Measurement and characterization of milled surface profiles using ultrasonic waves. <i>Measurement: Journal of the International Measurement Confederation</i> , 1996 , 17, 59-72	4.6	0

20	Neuro-fuzzy control of complex manufacturing processes. <i>International Journal of Production Research</i> , 1996 , 34, 3291-3309	7.8	27
19	Modeling and control of cnc machines using a PC-based open architecture controller. <i>Mechatronics</i> , 1995 , 5, 401-420	3	43
18	Surface Roughness Measurement by Ultrasonic Sensing for In-Process Monitoring. <i>Journal of Engineering for Industry</i> , 1995 , 117, 439-447		39
17	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
16	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	1.6	27
15	Surface roughness evaluation via ultrasonic scanning. <i>IEEE Transactions on Ultrasonics, Ferroelectrics, and Frequency Control</i> , 1994 , 41, 863-71	3.2	14
14	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
13	Control of Chips in the Turning of 4150 by Using an Obstruction Type Chip Breaker. <i>Journal of Engineering for Industry</i> , 1993 , 115, 160-163		4
12	Adaptive Control of Nonminimum Phase Processes with Application to the End Milling Process 1993 , ,		4
11	Optimization of machining conditions with practical constraints. <i>International Journal of Production Research</i> , 1992 , 30, 2907-2919	7.8	156
10	A statistical analysis of positional errors of a multiaxis machine tool. <i>Precision Engineering</i> , 1992 , 14, 139-146	1.6	16
9	Framework of an intelligent grinding process advisor. <i>Journal of Intelligent Manufacturing</i> , 1992 , 3, 135-148	1.8	12
8	Characterization of CNC machining centers. <i>Journal of Manufacturing Systems</i> , 1991 , 10, 407-421	9.1	22
7	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	4.5	2
6	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		17
5	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
4	System Identification of Multivariate Systems With Feedback. <i>Journal of Dynamic Systems, Measurement and Control, Transactions of the ASME</i> , 1990 , 112, 283-291	1.6	1
3	Experimental Complex Modal Analysis of Machine Tool Structures. <i>Journal of Engineering for Industry</i> , 1989 , 111, 116-124		12

2	Construction of fuzzy basis function networks using adaptive least squares method	2
1	Design and implementation of tool wear monitoring with radial basis function neural networks	3