

# Yung C Shin

## List of Publications by Year in descending order

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328  
papers

16,074  
citations

19608

61  
h-index

22764

112  
g-index

329  
all docs

329  
docs citations

329  
times ranked

9929  
citing authors

#	ARTICLE	IF	CITATIONS
1	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, 2089-2108.	1.5	6
2	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
3	Data-Driven Modeling of Mechanical Properties for 17-4 PH Stainless Steel Built by Additive Manufacturing. <i>Integrating Materials and Manufacturing Innovation</i> , 2022, 11, 241-255.	1.2	5
4	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
5	A probabilistic neural network for uncertainty prediction with applications to manufacturing process monitoring. <i>Applied Soft Computing Journal</i> , 2022, 124, 108995.	4.1	5
6	High throughput synthesis of CoCrFeNiTi high entropy alloys via directed energy deposition. <i>Journal of Alloys and Compounds</i> , 2022, 916, 165469.	2.8	9
7	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
8	A Gaussian mixture filter with adaptive refinement for nonlinear state estimation. <i>Signal Processing</i> , 2022, 201, 108677.	2.1	3
9	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
10	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
11	A novel 3D cellular automata-phase field model for computationally efficient dendrite evolution during bulk solidification. <i>Computational Materials Science</i> , 2021, 192, 110405.	1.4	9
12	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.	0.7	7
13	Laser cladding of aluminum alloy 6061 via off-axis powder injection. <i>Surface and Coatings Technology</i> , 2021, 415, 127099.	2.2	22
14	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.	3.3	8
15	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
16	Molecular Dynamics Study of Bulk Properties of Polycrystalline NiTi. <i>Metals</i> , 2021, 11, 1237.	1.0	4
17	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
18	An adaptive Gaussian mixture method for nonlinear uncertainty propagation in neural networks. <i>Neurocomputing</i> , 2021, 458, 170-183.	3.5	6

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19	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.	1.5	5
20	Data-driven phase recognition of steels for use in mechanical property prediction. <i>Manufacturing Letters</i> , 2021, 30, 27-31.	1.1	5
21	A Data-Driven Approach of Takagi-Sugeno Fuzzy Control of Unknown Nonlinear Systems. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 62.	1.3	5
22	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
23	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
24	Deep-learning-based porosity monitoring of laser welding process. <i>Manufacturing Letters</i> , 2020, 23, 62-66.	1.1	40
25	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.	1.4	25
26	Robust Wheel Wear Monitoring System for Cylindrical Traverse Grinding. <i>IEEE/ASME Transactions on Mechatronics</i> , 2020, 25, 2220-2229.	3.7	11
27	Mechanical breathing in organic electrochromics. <i>Nature Communications</i> , 2020, 11, 211.	5.8	44
28	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
29	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
30	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.	1.7	7
31	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, .	1.3	61
32	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, .	1.3	29
33	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	1
34	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
35	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
36	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.	1.2	29

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37	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
38	In-Process monitoring of porosity during laser additive manufacturing process. <i>Additive Manufacturing</i> , 2019, 28, 497-505.	1.7	125
39	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
40	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
41	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
42	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
43	Additive manufacturing of Ti6Al4V alloy: A review. <i>Materials and Design</i> , 2019, 164, 107552.	3.3	1,384
44	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
45	Predictive modeling of microstructure evolution within multi-phase steels during rolling processes. <i>International Journal of Mechanical Sciences</i> , 2019, 150, 576-583.	3.6	13
46	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, .	1.3	24
47	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.	3.1	25
48	Ultrafast Laser Applications in Manufacturing Processes: A State of the Art Review. , 2019, , .		2
49	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
50	Special issue on Additive manufacturing: progress in modeling and simulation with experimental validations in additive manufacturing. <i>Computational Mechanics</i> , 2018, 61, 519-520.	2.2	6
51	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
52	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
53	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, .	1.3	28
54	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.	1.5	7

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55	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
56	Multi-scale genome modeling for predicting fracture strength of silicon carbide ceramics. <i>Computational Materials Science</i> , 2018, 141, 10-18.	1.4	9
57	Crack formation within ceramics via coupled multiscale genome and XFEM predictions under various loading conditions. <i>Engineering Fracture Mechanics</i> , 2018, 204, 517-530.	2.0	6
58	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
59	A multimodal intelligent monitoring system for turning processes. <i>Journal of Manufacturing Processes</i> , 2018, 35, 547-558.	2.8	14
60	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.	3.3	40
61	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
62	Molecular dynamics-based cohesive zone representation of Ti6Al4V/TiC composite interface. <i>Materials and Design</i> , 2018, 155, 161-169.	3.3	51
63	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
64	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
65	Wideband anti-reflective silicon surface structures fabricated by femtosecond laser texturing. <i>Applied Surface Science</i> , 2018, 459, 86-91.	3.1	36
66	Prospects of laser welding technology in the automotive industry: A review. <i>Journal of Materials Processing Technology</i> , 2017, 245, 46-69.	3.1	227
67	Superhydrophobic contoured surfaces created on metal and polymer using a femtosecond laser. <i>Applied Surface Science</i> , 2017, 405, 465-475.	3.1	78
68	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
69	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
70	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
71	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.	1.5	14
72	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

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73	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
74	Investigation on the Effects of Process Parameters on Defect Formation in Friction Stir Welded Samples via Predictive Numerical Modeling and Experiments. , 2017, , .		3
75	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
76	Modeling Particle Spray and Capture Efficiency for Direct Laser Deposition Using a Four Nozzle Powder Injection System. , 2017, , .		1
77	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.	1.5	13
78	Improved machinability of SiC/SiC ceramic matrix composite via laser-assisted micromachining. <i>International Journal of Advanced Manufacturing Technology</i> , 2017, 90, 731-739.	1.5	46
79	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
80	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
81	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
82	Low-reflectance laser-induced surface nanostructures created with a picosecond laser. <i>Applied Physics A: Materials Science and Processing</i> , 2016, 122, 1.	1.1	15
83	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
84	Multiscale Genome Modeling for Predicting the Thermal Conductivity of Silicon Carbide Ceramics. <i>Journal of the American Ceramic Society</i> , 2016, 99, 4073-4082.	1.9	12
85	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
86	Machinability improvement of gear hobbing via process simulation and tool wear predictions. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 86, 2771-2779.	1.5	13
87	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
88	Nonlinear discrete time optimal control based on Fuzzy Models. <i>Journal of Intelligent and Fuzzy Systems</i> , 2015, 29, 647-658.	0.8	4
89	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
90	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.	1.5	30

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91	Laser Shock Peening on Zr-based Bulk Metallic Glass and Its Effect on Plasticity: Experiment and Modeling. Scientific Reports, 2015, 5, 10789.	1.6	54
92	Adaptive Robust Control of Circular Machining Contour Error Using Global Task Coordinate Frame. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2015, 137, .	1.3	9
93	Gain estimation of nonlinear dynamic systems modeled by an FBFN and the maximum output scaling factor of a self-tuning PI fuzzy controller. Engineering Applications of Artificial Intelligence, 2015, 42, 1-15.	4.3	22
94	The status, challenges, and future of additive manufacturing in engineering. CAD Computer Aided Design, 2015, 69, 65-89.	1.4	1,725
95	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
96	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
97	Laser-plasma interaction and plasma enhancement by ultrashort double-pulse ablation. Applied Physics B: Lasers and Optics, 2015, 120, 81-87.	1.1	21
98	In Situ Synthesis and Characterization of Zr-Based Amorphous Composite by Laser Direct Deposition. Metallurgical and Materials Transactions A: Physical Metallurgy and Materials Science, 2015, 46, 4316-4325.	1.1	9
99	Laser keyhole welding of stainless steel thin plate stack for applications in fuel cell manufacturing. Science and Technology of Welding and Joining, 2015, 20, 313-318.	1.5	9
100	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
101	Multi-scale modeling of phase explosion in high fluence nanosecond laser ablation and clarification of ablation depth prediction criterion. Applied Surface Science, 2015, 357, 74-85.	3.1	19
102	Crystalline photoactive copper indium diselenide thin films by pulsed laser crystallization of nanoparticle-inks at ambient conditions. RSC Advances, 2015, 5, 57550-57558.	1.7	4
103	Multi-scale modeling of solidification and microstructure development in laser keyhole welding process for austenitic stainless steel. Computational Materials Science, 2015, 98, 446-458.	1.4	106
104	Vision-based weld pool boundary extraction and width measurement during keyhole fiber laser welding. Optics and Lasers in Engineering, 2015, 64, 59-70.	2.0	73
105	Analysis of multi-phase interaction and its effects on keyhole dynamics with a multi-physics numerical model. Journal Physics D: Applied Physics, 2014, 47, 345501.	1.3	82
106	Dislocation Density-Based Grain Refinement Modeling of Orthogonal Cutting of Titanium. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2014, 136, .	1.3	52
107	Laser Machining and Laser-Assisted Machining of Ceramics. , 2014, , 219-234.		6
108	Fabrication and Characterization of Photonic Crystals in Photopolymer SZ2080 by Two-Photon Polymerization Using a Femtosecond Laser. Journal of Micro and Nano-Manufacturing, 2014, 2, .	0.8	10

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109	A Parametric Study on Laser Welding of Magnesium Alloy AZ31 by a Fiber Laser. , 2014, , .		0
110	Multi-Scale Finite Element Modeling of Alumina Ceramics Undergoing Laser-Assisted Machining. , 2014, , .		1
111	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
112	Ablation enhancement of silicon by ultrashort double-pulse laser ablation. Applied Physics Letters, 2014, 105, .	1.5	41
113	Synthesis and characterization of Fe-based amorphous composite by laser direct deposition. Surface and Coatings Technology, 2014, 239, 34-40.	2.2	54
114	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
115	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
116	Control of Ablation Depth and Surface Structure in P3 Scribing of Thin-Film Solar Cells by a Picosecond Laser. , 2014, , .		0
117	A variational Bayesian framework for group feature selection. International Journal of Machine Learning and Cybernetics, 2013, 4, 609-619.	2.3	18
118	Experimental evaluation of laser-assisted machining of silicon carbide particle-reinforced aluminum matrix composites. International Journal of Advanced Manufacturing Technology, 2013, 66, 1603-1610.	1.5	59
119	Milling contour error control using multilevel fuzzy controller. International Journal of Advanced Manufacturing Technology, 2013, 66, 1641-1655.	1.5	11
120	Coulomb explosion and early plasma generation during femtosecond laser ablation of silicon at high laser fluence. Journal Physics D: Applied Physics, 2013, 46, 335501.	1.3	38
121	Etching of long fiber polymeric composite materials by nanosecond laser induced water breakdown plasma. Applied Surface Science, 2013, 268, 6-10.	3.1	5
122	Multi-physics modeling and simulations of surface microstructure alteration in hard turning. Journal of Materials Processing Technology, 2013, 213, 877-886.	3.1	80
123	Improvement of machinability of Waspaloy via laser-assisted machining. International Journal of Advanced Manufacturing Technology, 2013, 64, 475-486.	1.5	64
124	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
125	Femtosecond laser ablation of aluminum in vacuum and air at high laser intensity. Applied Surface Science, 2013, 283, 94-99.	3.1	51
126	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



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127	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.	4.3	25
128	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.	3.1	47
129	Phase transformation characteristics and mechanical characterization of nitinol synthesized by laser direct deposition. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2013, 559, 836-843.	2.6	79
130	Adaptive Robust Control of Circular Machining Contour Error Using Global Task Coordinate Frame. , 2013, , .		1
131	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, .	1.3	12
132	IMPROVING MACHINABILITY OF HIGH CHROMIUM WEAR-RESISTANT MATERIALS VIA LASER-ASSISTED MACHINING. <i>Machining Science and Technology</i> , 2013, 17, 246-269.	1.4	12
133	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
134	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	7
135	Laser deposited coatings of Co-Cr-Mo onto Ti-6Al-4V and SS316L substrates for biomedical applications. , 2013, 101, 1124-1132.		23
136	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
137	Ablation Dynamics of Silicon by Femtosecond Laser and the Role of Early Plasma. , 2013, , .		0
138	Fabrication and Characterization of Photonic Crystals by Two-Photon Polymerization Using a Femtosecond Laser. , 2013, , .		1
139	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
140	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, .	1.3	46
141	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, .	1.3	31
142	Investigation of Early Plasma Evolution Induced by Ultrashort Laser Pulses. <i>Journal of Visualized Experiments</i> , 2012, , .	0.2	0
143	A Metallo-Thermo-Mechanically Coupled Analysis of Orthogonal Cutting of AISI 1045 Steel. , 2012, , .		2
144	A two-dimensional comprehensive hydrodynamic model for femtosecond laser pulse interaction with metals. <i>Journal Physics D: Applied Physics</i> , 2012, 45, 105201.	1.3	25

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145	Modeling of machining of composite materials: A review. International Journal of Machine Tools and Manufacture, 2012, 57, 102-121.	6.2	358
146	Dislocation density-based modeling of subsurface grain refinement with laser-induced shock compression. Computational Materials Science, 2012, 53, 79-88.	1.4	61
147	Microstructure and wear properties of laser-deposited functionally graded Inconel 690 reinforced with TiC. Surface and Coatings Technology, 2012, 207, 517-522.	2.2	111
148	Analysis of nanosecond laser ablation of aluminum with and without phase explosion in air and water. , 2012, , .		0
149	Thermal and mechanical modeling analysis of laser-assisted micro-milling of difficult-to-machine alloys. Journal of Materials Processing Technology, 2012, 212, 601-613.	3.1	121
150	Predictive modeling of grain refinement during multi-pass cold rolling. Journal of Materials Processing Technology, 2012, 212, 1003-1013.	3.1	47
151	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
152	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
153	Multi-level fuzzy control of friction stir welding power. International Journal of Advanced Manufacturing Technology, 2012, 59, 559-567.	1.5	14
154	Mechanics and Modeling of Chip Formation in Machining of MMC. , 2012, , 1-49.		11
155	Robust optimisation of machining conditions with tool life and surface roughness uncertainties. International Journal of Production Research, 2011, 49, 3963-3978.	4.9	6
156	Early-stage plasma dynamics with air ionization during ultrashort laser ablation of metal. Physics of Plasmas, 2011, 18, .	0.7	45
157	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
158	Modeling of grain refinement in aluminum and copper subjected to cutting. Computational Materials Science, 2011, 50, 3016-3025.	1.4	150
159	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
160	Observer-Based Adaptive Robust Control of Friction Stir Welding Axial Force. IEEE/ASME Transactions on Mechatronics, 2011, 16, 1032-1039.	3.7	36
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