

Ming Chen

List of Publications by Year in descending order

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111
papers

2,829
citations

159585
30
h-index

223800
46
g-index

111
all docs

111
docs citations

111
times ranked

2231
citing authors

#	ARTICLE	IF	CITATIONS
1	Transport and retention of biochar nanoparticles in a paddy soil under environmentally-relevant solution chemistry conditions. <i>Environmental Pollution</i> , 2017, 230, 540-549.	7.5	138
2	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. <i>Science of the Total Environment</i> , 2019, 661, 685-695.	8.0	126
3	Drilling temperature and hole quality in drilling of CFRP/aluminum stacks using diamond coated drill. <i>International Journal of Precision Engineering and Manufacturing</i> , 2015, 16, 1689-1697.	2.2	115
4	Drilling machinability evaluation on new developed high-strength T800S/250F CFRP laminates. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 1687-1696.	2.2	114
5	Policies and perspective on end-of-life vehicles in China. <i>Journal of Cleaner Production</i> , 2013, 44, 168-176.	9.3	99
6	Sustainable design for automotive products: Dismantling and recycling of end-of-life vehicles. <i>Waste Management</i> , 2014, 34, 458-467.	7.4	92
7	Contrasting effects of biochar nanoparticles on the retention and transport of phosphorus in acidic and alkaline soils. <i>Environmental Pollution</i> , 2018, 239, 562-570.	7.5	88
8	An investigation of drilling high-strength CFRP composites using specialized drills. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 103, 3425-3442.	3.0	74
9	Facilitated transport of cadmium by biochar-Fe ₃ O ₄ nanocomposites in water-saturated natural soils. <i>Science of the Total Environment</i> , 2019, 684, 265-275.	8.0	65
10	Experimental investigation on conventional grinding of Ti-6Al-4V using SiC abrasive. <i>International Journal of Advanced Manufacturing Technology</i> , 2011, 57, 135-142.	3.0	62
11	Experimental study on mechanical drilling of carbon/epoxy composite-Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 715-725.	4.7	60
12	On the machining behavior of carbon fiber reinforced polyimide and PEEK thermoplastic composites. <i>Polymer Composites</i> , 2020, 41, 3649-3663.	4.6	60
13	A comparison between vibration assisted and conventional drilling of CFRP/Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1182-1193.	4.7	53
14	End-of-life vehicle recycling in China: Now and the future. <i>Jom</i> , 2005, 57, 20-26.	1.9	48
15	Investigation of minimum quantity lubrication effects in drilling CFRP/Ti6Al4V stacks. <i>Materials and Manufacturing Processes</i> , 2019, 34, 1401-1410.	4.7	45
16	EXPERIMENTAL INVESTIGATION ON SURFACE INTEGRITY OF END MILLING NICKEL-BASED ALLOY INCONEL 718. <i>Machining Science and Technology</i> , 2014, 18, 31-46.	2.5	43
17	Assessing the economics of processing end-of-life vehicles through manual dismantling. <i>Waste Management</i> , 2016, 56, 384-395.	7.4	43
18	Drilling characteristics of carbon/epoxy and carbon/polyimide composites. <i>Materials and Manufacturing Processes</i> , 2020, 35, 1732-1740.	4.7	43

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19	Feedrate scheduling strategy for free-form surface machining through an integrated geometric and mechanistic model. International Journal of Advanced Manufacturing Technology, 2009, 40, 1191-1201.	3.0	42
20	Effect of drilling parameters and tool geometry on drilling performance in drilling carbon fiber reinforced plastic/titanium alloy stacks. Advances in Mechanical Engineering, 2016, 8, 168781401667028.	1.6	42
21	Enhancing the machining performance by cutting tool surface modifications: a focused review. Machining Science and Technology, 2019, 23, 477-509.	2.5	40
22	End-of-Life vehicle recovery in china: Consideration and innovation following the EU ELV directive. Jom, 2009, 61, 45-52.	1.9	39
23	A coupling method of response surfaces (CRSM) for cutting parameters optimization in machining titanium alloy under minimum quantity lubrication (MQL) condition. International Journal of Precision Engineering and Manufacturing, 2013, 14, 693-702.	2.2	39
24	Tool wear performance in face milling Inconel 182 using minimum quantity lubrication with different nozzle positions. International Journal of Precision Engineering and Manufacturing, 2014, 15, 557-565.	2.2	39
25	Experimental investigation on drilling machinability and hole quality of CFRP/Ti6Al4V stacks under different cooling conditions. International Journal of Advanced Manufacturing Technology, 2020, 109, 1527-1539.	3.0	38
26	Design of a real-time adaptive NURBS interpolator with axis acceleration limit. International Journal of Advanced Manufacturing Technology, 2010, 48, 227-241.	3.0	37
27	Experimental investigation on machinability of DMLS Ti6Al4V under dry drilling process. Materials and Manufacturing Processes, 2019, 34, 749-758.	4.7	36
28	Investigation on machined surface quality in ultrasonic-assisted grinding of Cf/SiC composites based on fracture mechanism of carbon fibers. International Journal of Advanced Manufacturing Technology, 2020, 109, 1583-1599.	3.0	35
29	Cooling/Lubrication Performance of Dry and Supercritical CO2-Based Minimum Quantity Lubrication in Peripheral Milling Ti-6Al-4V. International Journal of Precision Engineering and Manufacturing - Green Technology, 2021, 8, 405-421.	4.9	35
30	A novel method for tool condition monitoring based on long short-term memory and hidden Markov model hybrid framework in high-speed milling Ti-6Al-4V. International Journal of Advanced Manufacturing Technology, 2019, 105, 3165-3182.	3.0	32
31	Current recycling regulations and technologies for the typical plastic components of end-of-life passenger vehicles: a meaningful lesson for China. Journal of Material Cycles and Waste Management, 2014, 16, 187-200.	3.0	31
32	Investigation of friction in end-milling of Ti-6Al-4V under different green cutting conditions. International Journal of Advanced Manufacturing Technology, 2015, 78, 1181-1192.	3.0	31
33	Effects of tool parameters on cutting force in orthogonal machining of T700/LT03A unidirectional carbon fiber reinforced polymer laminates. Journal of Reinforced Plastics and Composites, 2015, 34, 591-602.	3.1	31
34	Analysis of Minimum Quantity Lubrication (MQL) for Different Coating Tools during Turning of TC11 Titanium Alloy. Materials, 2016, 9, 804.	2.9	31
35	Prioritising alternatives for sustainable end-of-life vehicle disassembly in China using AHP methodology. Technology Analysis and Strategic Management, 2018, 30, 556-568.	3.5	31
36	Tool wear monitoring in milling of titanium alloy Ti6Al4V under MQL conditions based on a new tool wear categorization method. International Journal of Advanced Manufacturing Technology, 2019, 104, 4117-4128.	3.0	30

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37	Machinability characteristics evolution of CFRP in a continuum of fiber orientation angles. Materials and Manufacturing Processes, 2017, 32, 1041-1050.	4.7	27
38	Dynamic mechanical behavior of ultra-high strength steel 30CrMnSiNi2A at high strain rates and elevated temperatures. Journal of Iron and Steel Research International, 2017, 24, 724-729.	2.8	25
39	Designing and verifying a disassembly line approach to cope with the upsurge of end-of-life vehicles in China. Waste Management, 2018, 76, 697-707.	7.4	24
40	Thermal characteristics of unidirectional carbon fiber reinforced polymer laminates during orthogonal cutting. Journal of Reinforced Plastics and Composites, 2018, 37, 905-916.	3.1	24
41	Orthogonal cutting mechanisms of CFRP/Ti6Al4V stacks. International Journal of Advanced Manufacturing Technology, 2019, 103, 3831-3851.	3.0	24
42	Evaluation of the performance of coated carbide tools in face milling TC6 alloy under dry condition. International Journal of Advanced Manufacturing Technology, 2013, 64, 623-631.	3.0	23
43	Remanufacturing process for used automotive electronic control components in China. Journal of Remanufacturing, 2013, 3, 1.	2.7	23
44	Development of a Two-Stage Pyrolysis Process for the End-Of-Life Nickel Cobalt Manganese Lithium Battery Recycling from Electric Vehicles. Sustainability, 2020, 12, 9164.	3.2	23
45	Synergistic effects of phosphorus and humic acid on the transport of anatase titanium dioxide nanoparticles in water-saturated porous media. Environmental Pollution, 2018, 243, 1368-1375.	7.5	22
46	Experimental and Numerical Studies on Defect Characteristics During Milling of Aluminum Honeycomb Core. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2019, 141, .	2.2	22
47	Research on ASR in China and its energy recycling with pyrolysis method. Journal of Material Cycles and Waste Management, 2015, 17, 107-117.	3.0	21
48	Recycling policy and statistical model of end-of-life vehicles in China. Waste Management and Research, 2019, 37, 347-356.	3.9	21
49	Experimental and FEM study of coated and uncoated tools used for dry milling of compacted graphite cast iron. Transactions of Tianjin University, 2011, 17, 235-241.	6.4	20
50	Recycling of electronic control units from end-of-life vehicles in China. Jom, 2011, 63, 42-47.	1.9	20
51	Biochar nanoparticles with different pyrolysis temperatures mediate cadmium transport in water-saturated soils: Effects of ionic strength and humic acid. Science of the Total Environment, 2022, 806, 150668.	8.0	20
52	Life cycle of remanufactured engines. Central South University, 2005, 12, 81-85.	0.5	19
53	Study on finish-turning of NiCr20TiAl nickel-based alloy using Al2O3/TiN-coated carbide tools. International Journal of Advanced Manufacturing Technology, 2011, 53, 81-92.	3.0	19
54	Effect of material microstructure on tool wear behavior during machining additively manufactured Ti6Al4V. Archives of Civil and Mechanical Engineering, 2020, 20, 1.	3.8	19

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55	Experimental Investigation on Cutting Characteristics in Nanometric Plunge-Cutting of BK7 and Fused Silica Glasses. <i>Materials</i> , 2015, 8, 1428-1441.	2.9	18
56	Automotive plastic parts design, recycling, research, and development in China. <i>Journal of Thermoplastic Composite Materials</i> , 2015, 28, 142-157.	4.2	17
57	An experimental investigation on cutting-induced damage when drilling high-strength T800S/250F carbon fiber-reinforced polymer. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2017, 231, 1931-1940.	2.4	17
58	Experimental investigation on mechanical drilling of a newly developed CFRP/Al co-cured material. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 993-1004.	3.0	16
59	Machining responses of high-strength carbon/epoxy composites using diamond-coated brad spur drills. <i>Materials and Manufacturing Processes</i> , 2021, 36, 722-729.	4.7	15
60	Studies on pyrolysis and gasification of automobile shredder residue in China. <i>Waste Management and Research</i> , 2014, 32, 980-987.	3.9	14
61	Py-FTIR-GC/MS Analysis of Volatile Products of Automobile Shredder Residue Pyrolysis. <i>Polymers</i> , 2020, 12, 2734.	4.5	14
62	Machinability and Surface Quality During Milling CFRP Laminates Under Dry and Supercritical CO ₂ -Based Cryogenic Conditions. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2022, 9, 765-781.	4.9	14
63	An investigation on wear mechanism of high-speed turning of free-cutting steel AISI 1215 using uncoated and multi-layer coated tools. <i>International Journal of Advanced Manufacturing Technology</i> , 2013, 67, 517-533.	3.0	13
64	Influence of Fiber Orientation on Single-Point Cutting Fracture Behavior of Carbon-Fiber/Epoxy Prepreg Sheets. <i>Materials</i> , 2015, 8, 6738-6751.	2.9	13
65	On the quantitative analysis of drill edge wear when machining CFRP/Ti6Al4V stacks. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 1463-1472.	3.0	13
66	Hole quality and tool wear when dry drilling of a new developed metal/composite co-cured material. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2020, 234, 980-992.	2.4	13
67	Analysis of low-frequency vibration-assisted bone drilling in reducing thermal injury. <i>Materials and Manufacturing Processes</i> , 2021, 36, 27-38.	4.7	13
68	Experimental and finite element analysis of the formation mechanism of serrated chips of nickel-based superalloy Inconel 718. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 4969-4982.	3.0	12
69	Research on fixture hole drilling quality of printed circuit board. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013, 14, 525-534.	2.2	11
70	Characterization of Automobile Plastics by Principal Component Analysis and Near-Infrared Spectroscopy. <i>Analytical Letters</i> , 2015, 48, 301-307.	1.8	11
71	End-of-Life Vehicle Dismantling and Recycling Enterprises: Developing Directions in China. <i>Jom</i> , 2013, 65, 1015-1020.	1.9	10
72	Tool path strategy and cutting process monitoring in intelligent machining. <i>Frontiers of Mechanical Engineering</i> , 2018, 13, 232-242.	4.3	10

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73	Research on Spent LiFePO ₄ Electric Vehicle Battery Disposal and Its Life Cycle Inventory Collection in China. International Journal of Environmental Research and Public Health, 2020, 17, 8828.	2.6	10
74	Experimental study on chip formation and surface quality in milling of TiB ₂ /Al alloy composites. Materials and Manufacturing Processes, 2020, 35, 1671-1679.	4.7	10
75	Investigation of material removal mechanisms and ductile-brittle transition zone of zirconia ceramics sintered at various temperatures. Journal of the Mechanical Behavior of Biomedical Materials, 2022, 125, 104944.	3.1	10
76	Influence of Interactions among Polymeric Components of Automobile Shredder Residue on the Pyrolysis Temperature and Characterization of Pyrolytic Products. Polymers, 2020, 12, 1682.	4.5	9
77	Finite element analysis of burr formation and an automatic online micro-deburring method in precise end-face grinding process. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2017, 231, 2495-2503.	2.4	8
78	End-of-life vehicle recycling based on disassembly. Central South University, 2005, 12, 153-156.	0.5	7
79	Experimental and theoretical analysis of metal magnetic memory signals in the stress concentration area of 45# steel under tensile testing. International Journal of Applied Electromagnetics and Mechanics, 2014, 46, 271-280.	0.6	7
80	A Coupling Response Surfaces Methodology of Multiple Constraints (CRSMMC) for parameters optimization of broach tool in broaching of heat-resistant steel X12CrMoWVNb N-10-1-1. International Journal of Advanced Manufacturing Technology, 2014, 74, 1719-1732.	3.0	7
81	Effect of functionalization of multiwalled carbon nanotubes with aminated poly(ether sulfone) on thermal and mechanical properties of poly(ether ether ketone) nanocomposites. High Performance Polymers, 2017, 29, 857-868.	1.8	7
82	A new method for deburring of servo valve core edge based on ultraprecision cutting with the designed monocrystalline diamond tool. Science China Technological Sciences, 2019, 62, 1805-1815.	4.0	7
83	An experimental investigation on milling features of fully-sintered zirconia ceramics using PCD tools. Materials and Manufacturing Processes, 2022, 37, 318-326.	4.7	7
84	WEAR MECHANISMS AND PERFORMANCE OF COATED INSERTS DURING FACE MILLING OF TC11 AND TC17 ALLOYS. Machining Science and Technology, 2013, 17, 483-495.	2.5	6
85	Theoretical Analysis and Experimental Study on the Coating Removal from Passenger-Vehicle Plastics for Recycling by Using Water Jet Technology. Jom, 2015, 67, 2714-2726.	1.9	6
86	Analysis of chip serration phenomenon in side milling of ultrahigh-strength steel 30CrMnSiNi2A. International Journal of Advanced Manufacturing Technology, 2017, 88, 985-993.	3.0	6
87	Triboelectrostatic separation for PP and ABS plastics in end of life passenger vehicles. Journal of Material Cycles and Waste Management, 2017, 19, 884-897.	3.0	6
88	A modeling and prediction method for plunge cutting force considering the small displacement of cutting layer. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2020, 234, 1369-1378.	2.4	6
89	Experimental investigation on the machinability of CFRP/Invar36 hybrid co-cured material in turning operations. International Journal of Advanced Manufacturing Technology, 2020, 107, 3715-3726.	3.0	6
90	Evaluation of Polycrystalline Diamond Tools in Milling of Pre-Sintered and Fully-Sintered Zirconia Ceramics. Journal of Superhard Materials, 2022, 44, 62-69.	1.2	6

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91	OPTIMIZATION STUDIES ON HOLE-MAKING TOOLS FOR HIGH-PERFORMANCE CUTTING AUSTENITIC STAINLESS STEEL. <i>Machining Science and Technology</i> , 2007, 11, 183-200.	2.5	5
92	Dry milling of the ultra-high-strength steel 30CrMnSiNi2A with coated carbide inserts. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2013, 18, 468-473.	0.9	5
93	Comprehensive study on the cutting specific energy and surface roughness of milled in situ TiB ₂ /Al composites and Al alloys. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 112, 2717-2729.	3.0	5
94	An experimental and finite element investigation of chip separation criteria in metal cutting process. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 3877-3889.	3.0	5
95	Experimental investigation on the effects of different heat treatment processes on grinding machinability and surface integrity of 9Mn2V. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 1165-1174.	3.0	4
96	Investigation on temperature distribution in form grinding of 9Mn2V thread gauge. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2018, 232, 1342-1350.	2.4	4
97	THE SURFACE INTEGRITY IN MACHINING HARDENED STEEL SKD11 FOR DIE AND MOLD. <i>Machining Science and Technology</i> , 2007, 11, 99-116.	2.5	3
98	A hybrid approach for cutting force prediction in flank milling based on analytical and 3D finite element method. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 1601-1613.	3.0	3
99	Experimental study on the cutting responses and surface integrity of side milled in situ TiB ₂ /Al composites. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 321-335.	3.0	3
100	Study on Performance of PVD AlTiN Coatings and AlTiN-Based Composite Coatings in Dry End Milling of Hardened Steel SKD11. <i>Metals</i> , 2021, 11, 2019.	2.3	3
101	A Combined Approach for Accurate and Accelerated Teeth Detection on Cone Beam CT Images. <i>Diagnostics</i> , 2022, 12, 1679.	2.6	3
102	Modelling of the temperature distribution based on equivalent heat transfer theory and anisotropic characteristics of honeycomb core during milling of aluminum honeycomb core. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2097-2110.	3.0	2
103	Investigation on end-of-life electric and electronic equipment recycling and disposal system in China: legislation, education and dissemination. <i>Central South University</i> , 2005, 12, 148-152.	0.5	1
104	The 2005 International Workshop on Sustainable Manufacturing. <i>Jom</i> , 2006, 58, 39-40.	1.9	1
105	Effects of specialized drill bits on hole defects of CFRP laminates. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	1
106	After-Sale Data Based Common Rail Injector Remanufacturability Analysis. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2018, 23, 337-344.	0.9	1
107	A Method of Domain Dictionary Construction for Electric Vehicles Disassembly. <i>Entropy</i> , 2022, 24, 363.	2.2	1
108	Quantitative evaluation method of tool wear based on morphological characteristics of machined surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture</i> , 2023, 237, 81-90.	2.4	1

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109	Residual fatigue strength of 48MnV crankshaft based on safety factor. Central South University, 2005, 12, 145-147.	0.5	0
110	TUNGSTEN OXIDES FORMATION ON THE INTERFACE OF THE CEMENTED CARBIDE AND THE INCONEL 182 OVERLAYS AT ELEVATED TEMPERATURE UP TO 800°C. Surface Review and Letters, 2018, 25, 1850110.	1.1	0
111	Numerical Study of the Effects of Tool Parameters on the Cutting Temperature Distribution and Ignition Risks of Magnesium Alloys. Advances in Transdisciplinary Engineering, 2022, , .	0.1	0