Ming Chen

List of Publications by Citations

107 papers	1,855 citations	24 h-index	37 g-index
111 ext. papers	2,359 ext. citations	3.5 avg, IF	5.64 L-index

#	Paper	IF	Citations
107	Drilling machinability evaluation on new developed high-strength T800S/250F CFRP laminates. *International Journal of Precision Engineering and Manufacturing*, **2013**, 14, 1687-1696	1.7	91
106	Transport and retention of biochar nanoparticles in a paddy soil under environmentally-relevant solution chemistry conditions. *Environmental Pollution*, **2017**, 230, 540-549	9.3	90
105	Policies and perspective on end-of-life vehicles in China. *Journal of Cleaner Production*, **2013**, 44, 168-176	10.3	81
104	Drilling temperature and hole quality in drilling of CFRP/aluminum stacks using diamond coated drill. *International Journal of Precision Engineering and Manufacturing*, **2015**, 16, 1689-1697	1.7	77
103	Sustainable design for automotive products: dismantling and recycling of end-of-life vehicles. *Waste Management*, **2014**, 34, 458-67	8.6	73
102	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. *Science of the Total Environment*, **2019**, 661, 685-695	10.2	66
101	Contrasting effects of biochar nanoparticles on the retention and transport of phosphorus in acidic and alkaline soils. *Environmental Pollution*, **2018**, 239, 562-570	9.3	54
100	Experimental investigation on conventional grinding of Ti-6Al-4V using SiC abrasive. *International Journal of Advanced Manufacturing Technology*, **2011**, 57, 135-142	3.2	51
99	An investigation of drilling high-strength CFRP composites using specialized drills. *International Journal of Advanced Manufacturing Technology*, **2019**, 103, 3425-3442	3.2	48
98	End-of-life vehicle recycling in China: Now and the future. *Jom*, **2005**, 57, 20-26	2.1	41
97	Facilitated transport of cadmium by biochar-FeO nanocomposites in water-saturated natural soils. *Science of the Total Environment*, **2019**, 684, 265-275	10.2	39
96	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	3.2	38
95	Experimental study on mechanical drilling of carbon/epoxy composite-Ti6Al4V stacks. *Materials and Manufacturing Processes*, **2019**, 34, 715-725	4.1	37
94	EXPERIMENTAL INVESTIGATION ON SURFACE INTEGRITY OF END MILLING NICKEL-BASED ALLOY□INCONEL 718. *Machining Science and Technology*, **2014**, 18, 31-46	2	34
93	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	1.7	34
92	Assessing the economics of processing end-of-life vehicles through manual dismantling. *Waste Management*, **2016**, 56, 384-95	8.6	34
91	End-of-Life vehicle recovery in china: Consideration and innovation following the EU ELV directive. *Jom*, **2009**, 61, 45-52	2.1	33

90	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	1.7	32
89	Design of a real-time adaptive NURBS interpolator with axis acceleration limit. *International Journal of Advanced Manufacturing Technology*, **2010**, 48, 227-241	3.2	32
88	A comparison between vibration assisted and conventional drilling of CFRP/Ti6Al4V stacks. *Materials and Manufacturing Processes*, **2019**, 34, 1182-1193	4.1	30
87	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	1.2	30
86	On the machining behavior of carbon fiber reinforced polyimide and PEEK thermoplastic composites. *Polymer Composites*, **2020**, 41, 3649-3663	3	26
85	Enhancing the machining performance by cutting tool surface modifications: a focused review. *Machining Science and Technology*, **2019**, 23, 477-509	2	25
84	Investigation of minimum quantity lubrication effects in drilling CFRP/Ti6Al4V stacks. *Materials and Manufacturing Processes*, **2019**, 34, 1401-1410	4.1	24
83	Experimental investigation on machinability of DMLS Ti6Al4V under dry drilling process. *Materials and Manufacturing Processes*, **2019**, 34, 749-758	4.1	24
82	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	3.2	24
81	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	3.2	23
80	Analysis of Minimum Quantity Lubrication (MQL) for Different Coating Tools during Turning of TC11 Titanium Alloy. *Materials*, **2016**, 9,	3.5	23
79	Thermal characteristics of unidirectional carbon fiber reinforced polymer laminates during orthogonal cutting. *Journal of Reinforced Plastics and Composites*, **2018**, 37, 905-916	2.9	22
78	Drilling characteristics of carbon/epoxy and carbon/polyimide composites. *Materials and Manufacturing Processes*, **2020**, 35, 1732-1740	4.1	22
77	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	3.2	21
76	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	2.9	20
75	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	3.4	20
74	Recycling of electronic control units from end-of-life vehicles in China. *Jom*, **2011**, 63, 42-47	2.1	20
73	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	8.6	19

72	Prioritising alternatives for sustainable end-of-life vehicle disassembly in China using AHP methodology. *Technology Analysis and Strategic Management*, **2018**, 30, 556-568	3.2	19
71	Machinability characteristics evolution of CFRP in a continuum of fiber orientation angles. *Materials and Manufacturing Processes*, **2017**, 32, 1041-1050	4.1	18
70	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	9.3	17
69	Research on ASR in China and its energy recycling with pyrolysis method. *Journal of Material Cycles and Waste Management*, **2015**, 17, 107-117	3.4	16
68	Remanufacturing process for used automotive electronic control components in China. *Journal of Remanufacturing*, **2013**, 3, 1	2.6	16
67	Orthogonal cutting mechanisms of CFRP/Ti6Al4V stacks. *International Journal of Advanced Manufacturing Technology*, **2019**, 103, 3831-3851	3.2	15
66	Tool wear monitoring in milling of titanium alloy Ti□Al□ V under MQL conditions based on a new tool wear categorization method. *International Journal of Advanced Manufacturing Technology*, **2019**, 104, 4117-4128	3.2	15
65	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	3.2	15
64	Studies on pyrolysis and gasification of automobile shredder residue in China. *Waste Management and Research*, **2014**, 32, 980-7	4	14
63	Life cycle of remanufactured engines. *Central South University*, **2005**, 12, 81-85		14
62	An experimental investigation on cutting-induced damage when drilling high-strength T800S/250F carbon fiber□einforced polymer. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2017**, 231, 1931-1940	2.4	13
61	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	2.9	13
60	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	3.8	13
59	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,	3.3	12
58	An investigation on wear mechanism of high-speed turning of free-cutting steel AISI 1215 using uncoated and multi-layer coated tools. *International Journal of Advanced Manufacturing Technology*, **2013**, 67, 517-533	3.2	12
57	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	1.2	12
56	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	3.2	12
55	Experimental Investigation on Cutting Characteristics in Nanometric Plunge-Cutting of BK7 and Fused Silica Glasses. *Materials*, **2015**, 8, 1428-1441	3.5	11

54	Automotive plastic parts design, recycling, research, and development in China. *Journal of Thermoplastic Composite Materials*, **2015**, 28, 142-157	1.9	11
53	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	3.6	11
52	Hole quality and tool wear when dry drilling of a new developed metal/composite co-cured material. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2020**, 234, 980-992	2.4	10
51	Effect of material microstructure on tool wear behavior during machining additively manufactured Ti6Al4V. *Archives of Civil and Mechanical Engineering*, **2020**, 20, 1	3.4	10
50	End-of-Life Vehicle Dismantling and Recycling Enterprises: Developing Directions in China. *Jom*, **2013**, 65, 1015-1020	2.1	10
49	Experimental investigation on mechanical drilling of a newly developed CFRP/Al co-cured material. *International Journal of Advanced Manufacturing Technology*, **2020**, 106, 993-1004	3.2	10
48	Recycling policy and statistical model of end-of-life vehicles in China. *Waste Management and Research*, **2019**, 37, 347-356	4	8
47	Characterization of Automobile Plastics by Principal Component Analysis and Near-Infrared Spectroscopy. *Analytical Letters*, **2015**, 48, 301-307	2.2	8
46	Tool path strategy and cutting process monitoring in intelligent machining. *Frontiers of Mechanical Engineering*, **2018**, 13, 232-242	3.3	8
45	Research on fixture hole drilling quality of printed circuit board. *International Journal of Precision Engineering and Manufacturing*, **2013**, 14, 525-534	1.7	8
44	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	1.6	7
43	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	0.4	7
42	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	3.2	7
41	Py-FTIR-GC/MS Analysis of Volatile Products of Automobile Shredder Residue Pyrolysis. *Polymers*, **2020**, 12,	4.5	7
40	Triboelectrostatic separation for PP and ABS plastics in end of life passenger vehicles. *Journal of Material Cycles and Waste Management*, **2017**, 19, 884-897	3.4	6
39	Experimental study on chip formation and surface quality in milling of TiB2/Al alloy composites. *Materials and Manufacturing Processes*, **2020**, 35, 1671-1679	4.1	6
38	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	3.5	6
37	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	3.2	6

36	End-of-life vehicle recycling based on disassembly. *Central South University*, **2005**, 12, 153-156		6
35	Machining responses of high-strength carbon/epoxy composites using diamond-coated brad spur drills. *Materials and Manufacturing Processes*, **2021**, 36, 722-729	4.1	6
34	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	5
33	Analysis of chip serration phenomenon in side milling of ultrahigh-strength steel 30CrMnSiNi2A. *International Journal of Advanced Manufacturing Technology*, **2017**, 88, 985-993	3.2	5
32	On the quantitative analysis of drill edge wear when machining CFRP/Ti6Al4V stacks. *International Journal of Advanced Manufacturing Technology*, **2020**, 108, 1463-1472	3.2	5
31	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
30	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	2.1	5
29	OPTIMIZATION STUDIES ON HOLE-MAKING TOOLS FOR HIGH-PERFORMANCE CUTTING AUSTENITIC STAINLESS STEEL. *Machining Science and Technology*, **2007**, 11, 183-200	2	5
28	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	3.2	5
27	Experimental and finite element analysis of the formation mechanism of serrated chips of nickel-based superalloy Inconel 718. *International Journal of Advanced Manufacturing Technology*, **2020**, 107, 4969-4982	3.2	4
26	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	4
25	Influence of Fiber Orientation on Single-Point Cutting Fracture Behavior of Carbon-Fiber/Epoxy Prepreg Sheets. *Materials*, **2015**, 8, 6738-6751	3.5	4
24	Influence of Interactions among Polymeric Components of Automobile Shredder Residue on the Pyrolysis Temperature and Characterization of Pyrolytic Products. *Polymers*, **2020**, 12,	4.5	4
23	Dry milling of the ultra-high-strength steel 30CrMnSiNi2A with coated carbide inserts. *Journal of Shanghai Jiaotong University (Science)*, **2013**, 18, 468-473	0.6	3
22	Experimental investigation on the effects of different heat treatment processes on grinding machinability and surface integrity of 9Mn2V. *International Journal of Advanced Manufacturing Technology*, **2015**, 81, 1165-1174	3.2	3
21	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	10.2	3
20	Research on Spent LiFePO Electric Vehicle Battery Disposal and Its Life Cycle Inventory Collection in China. *International Journal of Environmental Research and Public Health*, **2020**, 17,	4.6	2
19	Investigation on temperature distribution in form grinding of 9Mn2V thread gauge. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*, **2018**, 232, 1342-1350	2.4	2

18	THE SURFACE INTEGRITY IN MACHINING HARDENED STEEL SKD11 FOR DIE AND MOLD. *Machining Science and Technology*, **2007**, 11, 99-116	2	2
17	Analysis of low-frequency vibration-assisted bone drilling in reducing thermal injury. *Materials and Manufacturing Processes*, **2021**, 36, 27-38	4.1	2
16	Comprehensive study on the cutting specific energy and surface roughness of milled in situ TiB2/Al composites and Al alloys. *International Journal of Advanced Manufacturing Technology*, **2021**, 112, 2717-2729	3.2	2
15	Machinability and Surface Quality During Milling CFRP Laminates Under Dry and Supercritical CO2-Based Cryogenic Conditions. *International Journal of Precision Engineering and Manufacturing - Green Technology*,1	3.8	2
14	Study on Performance of PVD AlTiN Coatings and AlTiN-Based Composite Coatings in Dry End Milling of Hardened Steel SKD11. *Metals*, **2021**, 11, 2019	2.3	2
13	After-Sale Data Based Common Rail Injector Remanufacturability Analysis. *Journal of Shanghai Jiaotong University (Science)*, **2018**, 23, 337-344	0.6	1
12	Investigation on end-of-life electric and electronic equipment recycling and disposal system in China: legislation, education and dissemination. *Central South University*, **2005**, 12, 148-152		1
11	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	4.1	1
10	Modelling of the temperature distribution based on equivalent heat transfer theory and anisotropic characteristics of honeycomb core during milling of aluminum honeycomb core. *International Journal of Advanced Manufacturing Technology*, **2021**, 115, 2097-2110	3.2	1
9	An experimental and finite element investigation of chip separation criteria in metal cutting process. *International Journal of Advanced Manufacturing Technology*, **2021**, 116, 3877-3889	3.2	1
8	Experimental study on the cutting responses and surface integrity of side milled in situ TiB2/Al composites. *International Journal of Advanced Manufacturing Technology*, **2021**, 113, 321-335	3.2	1
7	An experimental investigation on milling features of fully-sintered zirconia ceramics using PCD tools. *Materials and Manufacturing Processes*,1-9	4.1	1
6	Evaluation of Polycrystalline Diamond Tools in Milling of Pre-Sintered and Fully-Sintered Zirconia Ceramics. *Journal of Superhard Materials*, **2022**, 44, 62-69	0.9	1
5	A hybrid approach for cutting force prediction in flank milling based on analytical and 3D finite element method. *International Journal of Advanced Manufacturing Technology*, **2020**, 110, 1601-1613	3.2	0
4	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	
3	The 2005 International Workshop on Sustainable Manufacturing. *Jom*, **2006**, 58, 39-40	2.1	
2	Residual fatigue strength of 48MnV crankshaft based on safety factor. *Central South University*, **2005**, 12, 145-147		
1	Quantitative evaluation method of tool wear based on morphological characteristics of machined surfaces. *Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture*,095440542210929	2.4	