

Chengyong Wang

List of Publications by Year in descending order

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70
papers

1,716
citations

304743

22
h-index

315739

38
g-index

70
all docs

70
docs citations

70
times ranked

1320
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on cutting force of reaming porcine bone and substitute bone. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, 236, 095441192110437.	1.8	0
2	Advances in machining of hard tissues “ From material removal mechanisms to tooling solutions. International Journal of Machine Tools and Manufacture, 2022, 172, 103838.	13.4	24
3	Structure-Element Surface Modification Strategy Enhances the Antibacterial Performance of Zr-BMGs. ACS Applied Materials & Interfaces, 2022, 14, 8793-8803.	8.0	11
4	Antibacterial Performance of Zr-BMG, Stainless Steel, and Titanium Alloy with Laser-Induced Periodic Surface Structures. ACS Applied Bio Materials, 2022, 5, 272-284.	4.6	23
5	Light emission of Zr-based bulk metallic glass during high-speed cutting: From generation mechanism to control strategies. Journal of Materials Processing Technology, 2022, 305, 117598.	6.3	6
6	Understanding the structure and cutting mechanism of shaver blades: A case study on articular cartilage. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2022, , 095441192210985.	1.8	0
7	Recent Advances in Soft Biological Tissue Manipulating Technologies. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	9
8	Chitosan/zinc nitrate microneedles for bacterial biofilm eradication. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 911-920.	3.4	24
9	Enhancing Staphylococcus aureus sterilization of stainless steel by the synergistic effect of surface structure and physical washing. Colloids and Surfaces B: Biointerfaces, 2021, 197, 111393.	5.0	6
10	Effect of nozzles on cutting performance when machining with oil-on-water cooling technique. International Journal of Advanced Manufacturing Technology, 2021, 112, 313-322.	3.0	3
11	Fatigue Behavior of Zr58Cu15.46Ni12.74Al10.34Nb2.76Y0.5 Bulk Metallic Glass Fabricated by Industrial-Grade Zirconium Raw Material. Metals, 2021, 11, 187.	2.3	4
12	The advance of surgical blades in cutting soft biological tissue: a review. International Journal of Advanced Manufacturing Technology, 2021, 113, 1817-1832.	3.0	11
13	Understanding the cutting mechanisms of composite structured soft tissues. International Journal of Machine Tools and Manufacture, 2021, 161, 103685.	13.4	14
14	Principle, process, and application of metal plasma electrolytic polishing: a review. International Journal of Advanced Manufacturing Technology, 2021, 114, 1893-1912.	3.0	25
15	High-Speed Machining of Malleable Cast Iron by Various Cutting Tools Coated by Physical Vapor Deposition. Chinese Journal of Mechanical Engineering (English Edition), 2021, 34, .	3.7	5
16	Influence of cutting velocity on gradient microstructure of machined surface during turning of high-strength alloy steel. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2021, 819, 141354.	5.6	11
17	Failure behavior and influence of surgical tool edges in soft tissue cutting. Journal of Manufacturing Processes, 2021, 68, 69-78.	5.9	7
18	Influence of annealing on microstructures and mechanical properties of arc-deposited AlCrTiSiN coating. Surface and Coatings Technology, 2021, 421, 127470.	4.8	5

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19	Optimization of Milling Aluminum Alloy 6061-T6 using Modified Johnson-Cook Model. Simulation Modelling Practice and Theory, 2021, 111, 102330.	3.8	31
20	Investigation on chip deformation behaviors of Zr-based bulk metallic glass during machining. Journal of Materials Processing Technology, 2020, 276, 116404.	6.3	25
21	Reduced bacterial adhesion on zirconium-based bulk metallic glasses by femtosecond laser nanostructuring. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2020, 234, 387-397.	1.8	21
22	Cryogenic drilling of aluminum-based printed circuit boards: a review and analysis. Machining Science and Technology, 2020, 24, 321-339.	2.5	5
23	Tool performance on micro-abrasive post-treatment coated carbide. International Journal of Advanced Manufacturing Technology, 2020, 109, 943-951.	3.0	1
24	Controllable fabrication of solid state nanopores array by electron beam shrinking. International Journal of Machine Tools and Manufacture, 2020, 159, 103623.	13.4	7
25	Effect of cutting parameters on cutting force and surface quality in cutting of articular cartilage. Procedia CIRP, 2020, 89, 116-121.	1.9	9
26	Effect of cryogenic oils-on-water compared with cryogenic minimum quantity lubrication in finishing turning of 17-4PH stainless steel. Machining Science and Technology, 2020, 24, 1016-1036.	2.5	15
27	Prewetting Polypropylene-Wood Pulp Fiber Composite Nonwoven Fabric for Oil-Water Separation. ACS Applied Materials & Interfaces, 2020, 12, 46923-46932.	8.0	30
28	Investigation of the chip adhesion mechanisms in micro-drilling of high ceramic-content particle-filled GFRPs. Machining Science and Technology, 2020, 24, 861-881.	2.5	4
29	Adaptability of AlTiN-based coated tools with green cutting technologies in sustainable machining of 316L stainless steel. Tribology International, 2020, 148, 106300.	5.9	21
30	Feasibility study of oil-on-water cooling in high-speed end milling of hardened steel. International Journal of Advanced Manufacturing Technology, 2020, 107, 271-292.	3.0	4
31	Multiple regression prediction model for cutting forces and surface roughness in micro-milling of TA2. Procedia CIRP, 2020, 89, 233-238.	1.9	10
32	Experimental study of temperature rise during bone drilling process. Medical Engineering and Physics, 2020, 78, 64-73.	1.7	24
33	The effect of microstructure on corrosion behavior of a novel AlCrTiSiN ceramic coating. Ceramics International, 2020, 46, 12584-12592.	4.8	25
34	Microstructures and mechanical properties of AlCrN/TiSiN nanomultilayer coatings consisting of fcc single-phase solid solution. Applied Surface Science, 2020, 509, 145303.	6.1	30
35	Controlling DNA Translocation Through Solid-state Nanopores. Nanoscale Research Letters, 2020, 15, 80.	5.7	25
36	Tool path generation for five-axis machining of blisks with barrel cutters. International Journal of Production Research, 2019, 57, 1300-1314.	7.5	12

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37	Mechanical and thermal damage in cortical bone drilling in vivo. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2019, 233, 621-635.	1.8	23
38	Investigations of new bulk metallic glass alloys fabricated using a high-pressure die-casting method based on industrial grade Zr raw material. Journal of Alloys and Compounds, 2019, 792, 851-859.	5.5	18
39	Research on machining compacted graphite iron under oil-on-water cooling and lubrication conditions based on modified material model. International Journal of Advanced Manufacturing Technology, 2019, 105, 5061-5079.	3.0	13
40	Machinability study of unidirectional CFRP laminates by slot milling. International Journal of Advanced Manufacturing Technology, 2019, 100, 189-197.	3.0	9
41	Solid-State Nanopore. Nanoscale Research Letters, 2018, 13, 56.	5.7	44
42	Effects of Re addition on phase stability and mechanical properties of hexagonal OsB ₂ . Journal of the American Ceramic Society, 2018, 101, 151-158.	3.8	10
43	Review: Porous Metal Filters and Membranes for Oil-Water Separation. Nanoscale Research Letters, 2018, 13, 284.	5.7	77
44	Performance of supercritical carbon dioxide (scCO ₂) mixed with oil-on-water (OoW) cooling in high-speed milling of 316L stainless steel. Procedia CIRP, 2018, 77, 391-396.	1.9	20
45	High performance cutting of Zr-based bulk metallic glass: a review of chip formation. Procedia CIRP, 2018, 77, 421-424.	1.9	11
46	Near-Net Forming Complex Shaped Zr-Based Bulk Metallic Glasses by High Pressure Die Casting. Materials, 2018, 11, 2338.	2.9	39
47	Effect of different oil-on-water cooling conditions on tool wear in turning of compacted graphite cast iron. Journal of Cleaner Production, 2017, 148, 477-489.	9.3	38
48	Synthesis of osmium borides by mechanochemical method. Journal of the American Ceramic Society, 2017, 100, 2419-2428.	3.8	8
49	Relationship of microstructure, mechanical properties and hardened steel cutting performance of TiSiN-based nanocomposite coated tool. Journal of Manufacturing Processes, 2017, 28, 399-409.	5.9	25
50	A Comparison Review on Orthopedic Surgery Using Piezosurgery and Conventional Tools. Procedia CIRP, 2017, 65, 99-104.	1.9	16
51	A Review on Surgical Instruments of Knee Arthroscopic Debridement and Total Hip Arthroplasty. Procedia CIRP, 2017, 65, 291-298.	1.9	14
52	Laser drilling of structural ceramics—A review. Journal of the European Ceramic Society, 2017, 37, 1157-1173.	5.7	88
53	Experimental study on a micro-abrasive slurry jet for glass polishing. International Journal of Advanced Manufacturing Technology, 2017, 89, 451-462.	3.0	19
54	Amorphous Silicon Nanowires Grown on Silicon Oxide Film by Annealing. Nanoscale Research Letters, 2017, 12, 487.	5.7	1

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55	Dynamic stability of cemented carbide circular saw blades for woodcutting. Journal of Materials Processing Technology, 2016, 238, 108-123.	6.3	28
56	Modeling and simulation of the high-speed milling of hardened steel SKD11 (62 HRC) based on SHPB technology. International Journal of Machine Tools and Manufacture, 2016, 108, 13-26.	13.4	50
57	Tool wear in Ti-6Al-4V alloy turning under oils on water cooling comparing with cryogenic air mixed with minimal quantity lubrication. International Journal of Advanced Manufacturing Technology, 2015, 81, 87-101.	3.0	65
58	Interaction of cemented carbide micro-drills and printed circuit boards during micro-drilling. International Journal of Advanced Manufacturing Technology, 2015, 77, 1305-1314.	3.0	19
59	Drilling force and temperature of bone under dry and physiological drilling conditions. Chinese Journal of Mechanical Engineering (English Edition), 2014, 27, 1240-1248.	3.7	27
60	Research on the Chip Formation Mechanism during the high-speed milling of hardened steel. International Journal of Machine Tools and Manufacture, 2014, 79, 31-48.	13.4	84
61	DYNAMIC ANALYSIS OF THE LENGTHENED SHRINK-FIT HOLDER AND CUTTING TOOL SYSTEM IN HIGH-SPEED MILLING. Machining Science and Technology, 2012, 16, 157-172.	2.5	5
62	Microstructure and properties of TiAlSiN coatings prepared by hybrid PVD technology. Thin Solid Films, 2009, 517, 4950-4955.	1.8	137
63	Modelling the erosion rate in micro abrasive air jet machining of glasses. Wear, 2009, 266, 968-974.	3.1	75
64	Interfacial microstructure and performance of brazed diamond grits with Ni-Cr-P alloy. Journal of Alloys and Compounds, 2009, 476, 884-888.	5.5	60
65	Investigation of Chip Formation Characteristics in Orthogonal Cutting of Graphite. Materials and Manufacturing Processes, 2009, 24, 1365-1372.	4.7	16
66	Optimization of hybrid PVD process of TiAlN coatings by Taguchi method. Applied Surface Science, 2008, 255, 1865-1869.	6.1	54
67	Cr Powder-Activated Induction Brazing of Diamond Grits with Ag-Cu-Zn Alloy. Materials and Manufacturing Processes, 2008, 23, 352-356.	4.7	11
68	Chemical/mechanical polishing of diamond films assisted by molten mixture of LiNO ₃ and KNO ₃ . Thin Solid Films, 2006, 496, 698-702.	1.8	47
69	Polishing of ceramic tiles. Materials and Manufacturing Processes, 2002, 17, 401-413.	4.7	15
70	Marble cutting with single point cutting tool and diamond segments. International Journal of Machine Tools and Manufacture, 2002, 42, 1045-1054.	13.4	63