

Bin Zou

List of Publications by Year in descending order

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55
papers

2,756
citations

257450

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docs citations

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times ranked

1789
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Study on microstructure, mechanical properties and machinability of efficiently additive manufactured AISI 316L stainless steel by high-power direct laser deposition. <i>Journal of Materials Processing Technology</i> , 2017, 240, 12-22. | 6.3 | 316 |
| 2 | Effects of printing parameters of fused deposition modeling on mechanical properties, surface quality, and microstructure of PEEK. <i>Journal of Materials Processing Technology</i> , 2019, 271, 62-74. | 6.3 | 255 |
| 3 | Effects of nozzle temperature and building orientation on mechanical properties and microstructure of PEEK and PEI printed by 3D-FDM. <i>Polymer Testing</i> , 2019, 78, 105948. | 4.8 | 199 |
| 4 | Preparation of short CF/GF reinforced PEEK composite filaments and their comprehensive properties evaluation for FDM-3D printing. <i>Composites Part B: Engineering</i> , 2020, 198, 108175. | 12.0 | 164 |
| 5 | Effects of FDM-3D printing parameters on mechanical properties and microstructure of CF/PEEK and GF/PEEK. <i>Chinese Journal of Aeronautics</i> , 2021, 34, 236-246. | 5.3 | 147 |
| 6 | Study on surface quality, precision and mechanical properties of 3D printed ZrO ₂ ceramic components by laser scanning stereolithography. <i>Ceramics International</i> , 2017, 43, 16340-16347. | 4.8 | 134 |
| 7 | The preparation of ZrO ₂ -Al ₂ O ₃ composite ceramic by SLA-3D printing and sintering processing. <i>Ceramics International</i> , 2020, 46, 937-944. | 4.8 | 114 |
| 8 | Preparation and characterization of UV curable Al ₂ O ₃ suspensions applying for stereolithography 3D printing ceramic microcomponent. <i>Powder Technology</i> , 2018, 338, 153-161. | 4.2 | 99 |
| 9 | Effect of particle size distribution on the preparation of ZTA ceramic paste applying for stereolithography 3D printing. <i>Powder Technology</i> , 2020, 359, 314-322. | 4.2 | 95 |
| 10 | Effect of the progressive tool wear on surface topography and chip formation in micro-milling of Ti-6Al-4V using Ti(C ₇ N ₃)-based cermet micro-mill. <i>Tribology International</i> , 2020, 141, 105900. | 5.9 | 87 |
| 11 | Study on surface damages caused by turning NiCr20TiAl nickel-based alloy. <i>Journal of Materials Processing Technology</i> , 2009, 209, 5802-5809. | 6.3 | 81 |
| 12 | Tool wear mechanisms and micro-channels quality in micro-machining of Ti-6Al-4V alloy using the Ti(C ₇ N ₃)-based cermet micro-mills. <i>Tribology International</i> , 2019, 134, 60-76. | 5.9 | 72 |
| 13 | Effect of printing strategies on forming accuracy and mechanical properties of ZrO ₂ parts fabricated by SLA technology. <i>Ceramics International</i> , 2019, 45, 17630-17637. | 4.8 | 70 |
| 14 | Modeling of surface roughness based on heat transfer considering diffusion among deposition filaments for FDM 3D printing heat-resistant resin. <i>Applied Thermal Engineering</i> , 2019, 161, 114064. | 6.0 | 69 |
| 15 | Fabrication strategy of complicated Al ₂ O ₃ -Si ₃ N ₄ functionally graded materials by stereolithography 3D printing. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5797-5809. | 5.7 | 65 |
| 16 | A study on biosafety of HAP ceramic prepared by SLA-3D printing technology directly. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 98, 327-335. | 3.1 | 60 |
| 17 | A survey of design methods for material extrusion polymer 3D printing. <i>Virtual and Physical Prototyping</i> , 2020, 15, 148-162. | 10.4 | 59 |
| 18 | Fabrication and characterization of SiC whiskers toughened Al ₂ O ₃ paste for stereolithography 3D printing applications. <i>Journal of Alloys and Compounds</i> , 2020, 828, 154347. | 5.5 | 51 |

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|----|---|-----|-----------|
| 19 | Study on friction characterization and wear-resistance properties of Si ₃ N ₄ ceramic sliding against different high-temperature alloys. <i>Ceramics International</i> , 2016, 42, 17210-17221. | 4.8 | 45 |
| 20 | Feasibility study of the Ti(C ₇ N ₃)-based cermet micro-mill based on dynamic fatigue behavior and modeling of the contact stress distribution on the round cutting edge. <i>International Journal of Mechanical Sciences</i> , 2019, 155, 143-158. | 6.7 | 38 |
| 21 | Design and fabrication of gradient cermet composite cutting tool, and its cutting performance. <i>Journal of Alloys and Compounds</i> , 2018, 732, 25-31. | 5.5 | 31 |
| 22 | An experimental investigation of micro-machinability of aluminum alloy 2024 using Ti(C ₇ N ₃)-based cermet micro end-mill tools. <i>Journal of Materials Processing Technology</i> , 2016, 235, 13-27. | 6.3 | 30 |
| 23 | Tool damage and machined-surface quality using hot-pressed sintering Ti(C ₇ N ₃)/WC/TaC cermet cutting inserts for high-speed turning stainless steels. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 79, 197-210. | 3.0 | 29 |
| 24 | Study of a hot-pressed sintering preparation of Ti(C ₇ N ₃)-based composite cermets materials and their performance as cutting tools. <i>Journal of Alloys and Compounds</i> , 2014, 611, 363-371. | 5.5 | 28 |
| 25 | Effect of MQL condition on cutting performance of high-speed machining of GH4099 with ceramic end mills. <i>Tribology International</i> , 2022, 167, 107401. | 5.9 | 27 |
| 26 | Rheological behavior and curing deformation of paste containing 85 wt% Al ₂ O ₃ ceramic during SLA-3D printing. <i>Ceramics International</i> , 2022, 48, 24560-24570. | 4.8 | 26 |
| 27 | Wear patterns and mechanisms of sialon ceramic end-milling tool during high speed machining of nickel-based superalloy. <i>Ceramics International</i> , 2021, 47, 5690-5698. | 4.8 | 24 |
| 28 | Mechanical properties and microstructure of Al ₂ O ₃ -SiC _w ceramic tool material toughened by Si ₃ N ₄ particles. <i>Ceramics International</i> , 2020, 46, 8845-8852. | 4.8 | 22 |
| 29 | A comprehensive method for selecting cutting tool materials. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 110, 229-240. | 3.0 | 22 |
| 30 | Wear mechanisms of Ti(C ₇ N ₃)-based cermet micro-drill and machining quality during ultra-high speed micro-drilling multi-layered PCB consisting of copper foil and glass fiber reinforced plastics. <i>Ceramics International</i> , 2019, 45, 24578-24593. | 4.8 | 21 |
| 31 | Frictional behavior and wear resistance performance of gradient cermet composite tool materials sliding against hard materials. <i>Ceramics International</i> , 2017, 43, 7816-7826. | 4.8 | 20 |
| 32 | A novel lattice structure topology optimization method with extreme anisotropic lattice properties. <i>Journal of Computational Design and Engineering</i> , 2021, 8, 1367-1390. | 3.1 | 20 |
| 33 | Improvement of Heat Treatment Process on Mechanical Properties of FDM 3D-Printed Short- and Continuous-Fiber-Reinforced PEEK Composites. <i>Coatings</i> , 2022, 12, 827. | 2.6 | 20 |
| 34 | The micro-cutting performance of cermet and coated WC micro-mills in machining of TC4 alloy micro-grooves. <i>International Journal of Advanced Manufacturing Technology</i> , 2018, 96, 1403-1414. | 3.0 | 19 |
| 35 | Monte Carlo simulation of microstructure evolution in nano-composite ceramic tool materials. <i>Computational Materials Science</i> , 2009, 47, 326-331. | 3.0 | 18 |
| 36 | Functionally graded polyetheretherketone-based composites additively manufactured by material extrusion using a transition interface design method. <i>Composites Part A: Applied Science and Manufacturing</i> , 2022, 158, 106977. | 7.6 | 17 |

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|----|--|-----|-----------|
| 37 | 3D printing and osteogenesis of loofah-like hydroxyapatite bone scaffolds. <i>Ceramics International</i> , 2021, 47, 20352-20361. | 4.8 | 16 |
| 38 | SLA-3d printing and compressive strength of PEGDA/nHAP biomaterials. <i>Ceramics International</i> , 2022, 48, 30917-30926. | 4.8 | 15 |
| 39 | Machined channel quality and tool life using cermet micro-mill in micro-milling aluminum alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 101, 2205-2216. | 3.0 | 14 |
| 40 | Manufacturing of a ceramic groove part based on additive and subtractive technologies. <i>Ceramics International</i> , 2021, 47, 740-747. | 4.8 | 12 |
| 41 | Preparation of Mn-Zn ferrite ceramic using stereolithography 3D printing technology. <i>Ceramics International</i> , 2022, 48, 6923-6932. | 4.8 | 12 |
| 42 | Geometric modeling and recycling of 3D printed fiber reinforced thermoplastic composite plain weft knitted structures. <i>Composites Part A: Applied Science and Manufacturing</i> , 2021, 149, 106528. | 7.6 | 11 |
| 43 | On-machine precision truing of ultrathin arc-shaped diamond wheels for grinding aspherical microstructure arrays. <i>Precision Engineering</i> , 2022, 73, 40-50. | 3.4 | 10 |
| 44 | Cutting performance of silicon-based ceramic end milling tools in high-efficiency machining of GH4099 under dry condition. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 1719-1732. | 3.0 | 9 |
| 45 | Three dimensional simulation of microstructure evolution for ceramic tool materials. <i>Computational Materials Science</i> , 2011, 50, 3334-3341. | 3.0 | 8 |
| 46 | Edge micro-creation of Ti(C, N) cermet inserts by micro-abrasive blasting process and its tool performance. <i>Machining Science and Technology</i> , 2019, 23, 951-970. | 2.5 | 8 |
| 47 | Design and fabrication of graded cBN tool materials through high temperature high pressure method. <i>Journal of Alloys and Compounds</i> , 2020, 832, 154937. | 5.5 | 8 |
| 48 | A study of a rapid method for detecting the machined surface roughness. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 117, 3115-3127. | 3.0 | 8 |
| 49 | Analyzing the performance of self-developed cermet micro end mills in machining of TC4 alloy micro-grooves. <i>Procedia CIRP</i> , 2018, 71, 424-428. | 1.9 | 7 |
| 50 | A helical interpolation precision truing and error compensation for arc-shaped diamond grinding wheel. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 100, 167-177. | 3.0 | 7 |
| 51 | Shear and Tensile Behaviors of Fiber-Reinforced Resin Matrix Composites Printed by the FDM Technology. <i>Coatings</i> , 2022, 12, 1000. | 2.6 | 7 |
| 52 | Three-dimensional simulation of microstructure evolution for three-phase nano-composite ceramic tool materials. <i>Computational Materials Science</i> , 2012, 65, 254-263. | 3.0 | 5 |
| 53 | Instantaneous milling force prediction and valuation of end milling based on friction angle in orthogonal cutting. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 116, 1341-1355. | 3.0 | 5 |
| 54 | Three Dimensional Monte Carlo Simulation of Microstructure Evolution in Presence of Pores and Impurities for Three-Phase Nanocomposite Ceramic Tool Materials. <i>Advanced Materials Research</i> , 0, 500, 531-536. | 0.3 | 0 |

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|----|---|-----|-----------|
| 55 | Assessment of cyclic utilization of coated cemented carbide inserts for turning of Inconel 718. International Journal of Advanced Manufacturing Technology, 2021, 112, 1583-1592. | 3.0 | 0 |