

# Tianbiao Yu

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5344773/publications.pdf>

Version: 2024-02-01

226  
papers

3,304  
citations

156536

32  
h-index

223390

49  
g-index

232  
all docs

232  
docs citations

232  
times ranked

1666  
citing authors

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Modeling and analysis of the material removal rate for ultrasonic vibration-assisted polishing of optical glass BK7. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 118, 627-639.             | 1.5 | 8         |
| 2  | An intelligent sustainability evaluation system of micro milling. <i>Robotics and Computer-Integrated Manufacturing</i> , 2022, 73, 102239.  | 6.1 | 14        |
| 3  | In-process stochastic tool wear identification and its application to the improved cutting force modeling of micro milling. <i>Mechanical Systems and Signal Processing</i> , 2022, 164, 108233.                         | 4.4 | 41        |
| 4  | Nano-enhanced biolubricant in sustainable manufacturing: From processability to mechanisms. <i>Friction</i> , 2022, 10, 803-841.   | 3.4 | 144       |
| 5  | The microstructure and mechanical properties of Co/YCF102 composite coating. <i>Rapid Prototyping Journal</i> , 2022, 28, 647-653.   | 1.6 | 0         |
| 6  | Slicing strategy and process of laser direct metal deposition (DMD) of the inclined thin-walled part under open-loop control. <i>Rapid Prototyping Journal</i> , 2022, 28, 68-86.  | 1.6 | 5         |
| 7  | A grinding force predictive model and experimental validation for the laser-assisted grinding (LAG) process of zirconia ceramic. <i>Journal of Materials Processing Technology</i> , 2022, 302, 117492.                  | 3.1 | 60        |
| 8  | Effect of B4C on CBN/CuSnTi laser cladding grinding tool. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 6307-6319.  | 1.5 | 6         |
| 9  | Meso-scale numerical simulation and experimental verification of single grain grinding TiC-Fe composites. <i>Ceramics International</i> , 2022, 48, 12299-12310.   | 2.3 | 10        |
| 10 | Predictive modeling and experimental study of polishing force for ultrasonic vibration-assisted polishing of K9 optical glass. <i>International Journal of Advanced Manufacturing Technology</i> , 2022, 119, 3119-3139. | 1.5 | 6         |
| 11 | Microstructure and properties of metal parts remanufactured by laser cladding TiC and TiB2 reinforced Fe-based coatings. <i>Ceramics International</i> , 2022, 48, 14127-14140.  | 2.3 | 42        |
| 12 | Mechanical properties and magnetic properties of in-situ Co3Fe7 reinforced YCF102 coating by laser cladding. <i>Journal of Materials Research and Technology</i> , 2022, 17, 713-724.                                    | 2.6 | 5         |
| 13 | Preparation of a novel vitrified bond CBN grinding wheel and study on the grinding performance. <i>Ceramics International</i> , 2022, 48, 15565-15575.   | 2.3 | 3         |
| 14 | Microstructure evolution and wear resistance of in-situ synthesized (Ti, Nb)C ceramic reinforced Ni2O4 composite coatings. <i>Ceramics International</i> , 2022, 48, 17518-17528.  | 2.3 | 17        |
| 15 | Experimental investigation of ultrasonic-vibration polishing of K9 optical glass based on ultrasonic atomization. <i>Ceramics International</i> , 2022, 48, 9067-9074.   | 2.3 | 7         |
| 16 | Predictive and experimental research on the polishing slurry consumption model for ultrasonic vibration-assisted polishing of optical glass BK7. <i>Ceramics International</i> , 2022, 48, 10048-10058.                  | 2.3 | 5         |
| 17 | Parameter optimization of ultrasonic vibration polishing K9 optical glass based on ultrasonic atomization. <i>Ceramics International</i> , 2022, 48, 19944-19953.  | 2.3 | 3         |
| 18 | Sub-regional polishing and machining trajectory selection of complex surface based on K9 optical glass. <i>Journal of Materials Processing Technology</i> , 2022, 304, 117563.   | 3.1 | 14        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 19 | Process optimization, microstructure and microhardness of coaxial laser cladding TiC reinforced Ni-based composite coatings. <i>Optics and Laser Technology</i> , 2022, 152, 108129.   | 2.2 | 24        |
| 20 | Study on the effect of ultrasonic vibration-assisted polishing on the surface properties of alumina ceramic. <i>Ceramics International</i> , 2022, 48, 21389-21406.  | 2.3 | 7         |
| 21 | Development and characteristics research of flexible manufacturing cell for optical free-form surface. <i>Advances in Mechanical Engineering</i> , 2022, 14, 168781322210929.  | 0.8 | 3         |
| 22 | Effect of TiC content on the microstructure and wear performance of in situ synthesized Ni-based composite coatings by laser direct energy deposition. <i>Surface and Coatings Technology</i> , 2022, 444, 128678.           | 2.2 | 18        |
| 23 | Modeling and prediction of generated local surface profile for ultrasonic vibration-assisted polishing of optical glass BK7. <i>Journal of Materials Processing Technology</i> , 2021, 289, 116933.                          | 3.1 | 24        |
| 24 | Development mechanism and solidification morphology of molten pool generated by laser cladding. <i>International Journal of Thermal Sciences</i> , 2021, 159, 106579.  | 2.6 | 41        |
| 25 | Mechanics analysis and predictive force models for the single-diamond grain grinding of carbon fiber reinforced polymers using CNT nano-lubricant. <i>Journal of Materials Processing Technology</i> , 2021, 290, 116976.    | 3.1 | 192       |
| 26 | Microstructure and mechanical properties of Ti-Ca-TiN-reinforced Ni204-based laser-cladding composite coating. <i>Ceramics International</i> , 2021, 47, 5918-5928.  | 2.3 | 29        |
| 27 | Effect of laser re-melting on geometry and mechanical properties of YCF102 cladding layer. <i>Surface and Coatings Technology</i> , 2021, 408, 126789.   | 2.2 | 16        |
| 28 | Modeling virtual abrasive grain based on random ellipsoid tangent plane. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 113, 2049-2064.   | 1.5 | 3         |
| 29 | In-situ NbC reinforced Fe-based coating by laser cladding: Simulation and experiment. <i>Surface and Coatings Technology</i> , 2021, 412, 127027.  | 2.2 | 55        |
| 30 | Effects of CeO2 addition on microstructure and properties of ceramics reinforced Fe-based coatings by laser cladding. <i>International Journal of Advanced Manufacturing Technology</i> , 2021, 115, 2581-2593.              | 1.5 | 13        |
| 31 | Laser fabricated nickel-based coating with different overlap modes. <i>Materials and Manufacturing Processes</i> , 2021, 36, 1618-1630.  | 2.7 | 3         |
| 32 | Study on a Chiral Structure with Tunable Poisson's Ratio. <i>Materials</i> , 2021, 14, 3338.   | 1.3 | 3         |
| 33 | Predictive modeling and experimental study of generated surface-profile for ultrasonic vibration-assisted polishing of optical glass BK7 in straight feeding process. <i>Ceramics International</i> , 2021, 47, 19809-19823. | 2.3 | 16        |
| 34 | Modeling and simulation of 3D geometry prediction and dynamic solidification behavior of Fe-based coatings by laser cladding. <i>Optics and Laser Technology</i> , 2021, 139, 107009.  | 2.2 | 43        |
| 35 | Material removal profile prediction and experimental validation for obliquely axial ultrasonic vibration-assisted polishing of K9 optical glass. <i>Ceramics International</i> , 2021, 47, 33106-33119.                      | 2.3 | 13        |
| 36 | Research of Pneumatic Polishing Force Control System Based on High Speed On/off with PWM Controlling. <i>Robotics and Computer-Integrated Manufacturing</i> , 2021, 70, 102133.  | 6.1 | 27        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 37 | Fabrication of high hardness microarray diamond tools by femtosecond laser ablation. Optics and Laser Technology, 2021, 140, 107014.   | 2.2 | 29        |
| 38 | Grinding performance oriented experimental evaluation on TiC-Steel cermet with vitrified bond cBN wheel. Ceramics International, 2021, 47, 34949-34958.  | 2.3 | 3         |
| 39 | Repair of spline shaft by laser-cladding coarse TiC reinforced Ni-based coating: Process, microstructure and properties. Ceramics International, 2021, 47, 30113-30128.  | 2.3 | 40        |
| 40 | Experimental investigation and numerical analysis for machinability of alumina ceramic by laser-assisted grinding. Precision Engineering, 2021, 72, 798-806.   | 1.8 | 17        |
| 41 | Evolution and convection mechanism of the melt pool formed by V-groove laser cladding. Optics and Laser Technology, 2021, 144, 107443.   | 2.2 | 8         |
| 42 | Study on machining BK7 optical glass by ultrasonic vibration-assisted polishing considering the micro-contact state of the abrasive particles with the workpiece. Journal of Manufacturing Processes, 2021, 72, 469-482. | 2.8 | 10        |
| 43 | Design of Optical Free-Form Surface Milling Machine Based on Mechanical Shunt and Dynamic Analysis. Applied Sciences (Switzerland), 2021, 11, 11764.   | 1.3 | 0         |
| 44 | An improved calculation method for cutting contact point and tool orientation analysis according to the CC points. Precision Engineering, 2020, 61, 1-13.  | 1.8 | 6         |
| 45 | Experimental evaluation of an eco-friendly grinding process combining minimum quantity lubrication and graphene-enhanced plant-oil-based cutting fluid. Journal of Cleaner Production, 2020, 244, 118747.                | 4.6 | 54        |
| 46 | The relationship between convection mechanism and solidification structure of the iron-based molten pool in metal laser direct deposition. International Journal of Mechanical Sciences, 2020, 165, 105207.              | 3.6 | 52        |
| 47 | Effect of machining parameters on the milling process of 2.5D C/SiC ceramic matrix composites. Machining Science and Technology, 2020, 24, 227-244.  | 1.4 | 16        |
| 48 | Effects of laser-assisted grinding on surface integrity of zirconia ceramic. Ceramics International, 2020, 46, 921-929.  | 2.3 | 49        |
| 49 | Surface generation modeling of micro milling process with stochastic tool wear. Precision Engineering, 2020, 61, 170-181.  | 1.8 | 43        |
| 50 | Microstructure and properties of laser clad B4C/TiC/Ni-based composite coating. International Journal of Refractory Metals and Hard Materials, 2020, 86, 105112.   | 1.7 | 52        |
| 51 | A numerical method to predict work-hardening caused by plastic deformation. Engineering Analysis With Boundary Elements, 2020, 112, 25-38.   | 2.0 | 1         |
| 52 | Effect of laser cladding on forming microhardness and tensile strength of YCF101 alloy powder in the different full lap joint modes. Journal of Alloys and Compounds, 2020, 820, 150230.                                 | 2.8 | 11        |
| 53 | Assessment and optimization of grinding process on AISI 1045 steel in terms of green manufacturing using orthogonal experimental design and grey relational analysis. Journal of Cleaner Production, 2020, 253, 119896.  | 4.6 | 41        |
| 54 | An analytical approach on stochastic model for cutting force prediction in milling ceramic matrix composites. International Journal of Mechanical Sciences, 2020, 168, 105314.   | 3.6 | 36        |

| #  | ARTICLE  | IF  | CITATIONS |
|----|--|-----|-----------|
| 55 | Effect of cobalt on properties of vitrified bond and vitrified cubic boron nitride composites. <i>Ceramics International</i> , 2020, 46, 5337-5343.  | 2.3 | 5         |
| 56 | Study on textured CBN grinding wheel by laser cladding. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 106, 865-876.  | 1.5 | 8         |
| 57 | Effect of process parameters on the cladding track geometry fabricated by laser cladding. <i>Optik</i> , 2020, 223, 165447.  | 1.4 | 29        |
| 58 | Microstructure and wear resistance behavior of Ti <sup>6</sup> Al <sub>4</sub> V/B <sub>4</sub> C-reinforced composite coating. <i>Ceramics International</i> , 2020, 46, 25136-25148.   | 2.3 | 35        |
| 59 | Process parameters optimization of single-track laser cladding for 45 steel gear remanufacturing. <i>Journal of Physics: Conference Series</i> , 2020, 1549, 032144.   | 0.3 | 0         |
| 60 | Effect of W content on the microstructure and properties of Cu-Fe alloy. <i>Journal of Materials Research and Technology</i> , 2020, 9, 6464-6474.   | 2.6 | 12        |
| 61 | Energy consumption considering tool wear and optimization of cutting parameters in micro milling process. <i>International Journal of Mechanical Sciences</i> , 2020, 178, 105628.   | 3.6 | 64        |
| 62 | Interactive optimization of process parameters and coating analysis of laser cladding JG-3 powder. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 2623-2633.   | 1.5 | 7         |
| 63 | Effect of laser power on molten pool evolution and convection. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 48-59.   | 1.2 | 14        |
| 64 | Simulation of 3D grinding temperature field by using an improved finite difference method. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 108, 3871-3884.   | 1.5 | 4         |
| 65 | The synergistic effect of nano Y <sub>2</sub> O <sub>3</sub> /CeO <sub>2</sub> and nano Al <sub>2</sub> O <sub>3</sub> /SiO <sub>2</sub> on the properties of vitrified bond and vitrified bond CBN composites. <i>Ceramics International</i> , 2020, 46, 14224-14231. | 2.3 | 6         |
| 66 | Investigation on the grinding properties of high thermal conductivity vitrified bond CBN grinding wheel for titanium alloy. <i>International Journal of Advanced Manufacturing Technology</i> , 2020, 107, 1539-1549.  | 1.5 | 10        |
| 67 | Mechanical property of YCF101 coating under different overlap modes by laser cladding. <i>Optik</i> , 2020, 212, 164714.   | 1.4 | 8         |
| 68 | Dynamic cutting force prediction for micro end milling considering tool vibrations and run-out. <i>Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science</i> , 2019, 233, 2248-2261.                               | 1.1 | 5         |
| 69 | Microstructure and friction coefficient of ceramic (TiC, TiN and B <sub>4</sub> C) reinforced Ni-based coating by laser cladding. <i>Ceramics International</i> , 2019, 45, 20824-20836.   | 2.3 | 55        |
| 70 | A New Filtering System for Using a Consumer Depth Camera at Close Range. <i>Sensors</i> , 2019, 19, 3460.  | 2.1 | 3         |
| 71 | Simulation Analysis of Knee Ligaments in the Landing Phase of Freestyle Skiing Aerial. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3713.  | 1.3 | 5         |
| 72 | Process optimization for improving topography quality and manufacturing accuracy of thin-walled cylinder direct laser fabrication. <i>International Journal of Advanced Manufacturing Technology</i> , 2019, 105, 2087-2101.   | 1.5 | 5         |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 73 | Grinding temperature field prediction by meshless finite block method with double infinite element. International Journal of Mechanical Sciences, 2019, 153-154, 131-142.   | 3.6 | 32        |
| 74 | Kinematic simulation of surface grinding process with random cBN grain model. International Journal of Advanced Manufacturing Technology, 2019, 100, 2725-2739.   | 1.5 | 14        |
| 75 | Study on polishing slurry waste reduction in polishing monocrystalline silicon based on ultrasonic atomization. Journal of Cleaner Production, 2019, 233, 1-12.   | 4.6 | 14        |
| 76 | Geometry and dilution rate analysis and prediction of laser cladding. International Journal of Advanced Manufacturing Technology, 2019, 103, 4695-4702.   | 1.5 | 49        |
| 77 | Numerical model of transient convection pattern and forming mechanism of molten pool in laser cladding. Numerical Heat Transfer; Part A: Applications, 2019, 75, 855-873.   | 1.2 | 20        |
| 78 | Effects of the ultrasonic vibration field on polishing process of nickel-based alloy Inconel718. Journal of Materials Processing Technology, 2019, 273, 116228.   | 3.1 | 32        |
| 79 | Research on Manufacturing Technology of Thin-walled Parts of Fe105 metal Based on Laser Cladding. Journal of Physics: Conference Series, 2019, 1187, 032043.  | 0.3 | 3         |
| 80 | Effect of ultrasonic vibration on polishing monocrystalline silicon: surface quality and material removal rate. International Journal of Advanced Manufacturing Technology, 2019, 103, 2109-2119.                                       | 1.5 | 13        |
| 81 | Analytical model of dynamic and overlapped footprints in abrasive air jet polishing of optical glass. International Journal of Machine Tools and Manufacture, 2019, 141, 59-77.   | 6.2 | 30        |
| 82 | Experimental and simulation studies of abrasive particles impacting monocrystalline silicon in suspension thin film flow field of ultrasonic polishing. International Journal of Advanced Manufacturing Technology, 2019, 103, 819-840. | 1.5 | 12        |
| 83 | Mechanical properties of porous structure 3D printed with Vero White photosensitive resin. Rapid Prototyping Journal, 2019, 26, 539-548.  | 1.6 | 6         |
| 84 | Effect of shielding gas flow rate on cladding quality of direct laser fabrication AISI 316L stainless steel. Journal of Manufacturing Processes, 2019, 48, 51-65.   | 2.8 | 17        |
| 85 | Research on surface integrity in graphene nanofluid MQL milling of TC21 alloy. International Journal of Abrasive Technology, 2019, 9, 49.   | 0.2 | 8         |
| 86 | Prediction of 3D grinding temperature field based on meshless method considering infinite element. International Journal of Advanced Manufacturing Technology, 2019, 100, 3067-3084.  | 1.5 | 9         |
| 87 | Parameter optimization during minimum quantity lubrication milling of TC4 alloy with graphene-dispersed vegetable-oil-based cutting fluid. Journal of Cleaner Production, 2019, 209, 1508-1522.   | 4.6 | 79        |
| 88 | On the predictive modelling of machined surface topography in abrasive air jet polishing of quartz glass. International Journal of Mechanical Sciences, 2019, 152, 1-18.  | 3.6 | 41        |
| 89 | Improved analytical prediction of burr formation in micro end milling. International Journal of Mechanical Sciences, 2019, 151, 461-470.  | 3.6 | 32        |
| 90 | Study on optimization of ultrasonic-vibration-assisted polishing process parameters. Measurement: Journal of the International Measurement Confederation, 2019, 135, 651-660.   | 2.5 | 17        |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 91  | CFD simulation and experimental studies of suspension flow field in ultrasonic polishing. Journal of Materials Processing Technology, 2019, 266, 715-725.  | 3.1 | 9         |
| 92  | Study on the grindability of nano-vitrified bond CBN grinding wheel for nickel-based alloy. International Journal of Advanced Manufacturing Technology, 2019, 100, 1913-1921.  | 1.5 | 10        |
| 93  | Cutting forces modeling for micro flat end milling by considering tool run-out and bottom edge cutting effect. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2019, 233, 470-485. | 1.5 | 17        |
| 94  | Laser Cladding Ti Coated CBN/CuSnTi Alloy on Steel for Grinding Tools of Ocean Ship. Journal of Coastal Research, 2019, 83, 571.   | 0.1 | 2         |
| 95  | The Investigation of the Morphology and Failure Types of Pre-placed CBN on Cu-Ni-Sn-Ti Bonded to Steel by Laser Process. Journal of Coastal Research, 2019, 83, 486.   | 0.1 | 0         |
| 96  | Effect of laser cladding on forming qualities of YCF101 alloy powder in the different lap joint modes. International Journal of Advanced Manufacturing Technology, 2018, 96, 1991-2001.  | 1.5 | 14        |
| 97  | Effects of Ni addition on properties of vitrified bond CBN composites in strong magnetic field. Ceramics International, 2018, 44, 9312-9317.   | 2.3 | 9         |
| 98  | Material removal mechanism of two-dimensional ultrasonic vibration assisted polishing Inconel718 nickel-based alloy. International Journal of Advanced Manufacturing Technology, 2018, 96, 657-667.                                    | 1.5 | 26        |
| 99  | Effects of ZrO <sub>2</sub> and Y <sub>2</sub> O <sub>3</sub> on physical and mechanical properties of ceramic bond and ceramic CBN composites. International Journal of Refractory Metals and Hard Materials, 2018, 75, 18-24.        | 1.7 | 14        |
| 100 | Prediction of cutting forces and instantaneous tool deflection in micro end milling by considering tool run-out. International Journal of Mechanical Sciences, 2018, 136, 124-133.   | 3.6 | 58        |
| 101 | Effects of sintering in a high magnetic field on properties of vitrified bond and vitrified CBN composites. Ceramics International, 2018, 44, 22301-22307.   | 2.3 | 9         |
| 102 | Microstructure and wear resistance of in-situ synthesized Ti(C, N) ceramic reinforced Fe-based coating by laser cladding. Ceramics International, 2018, 44, 22538-22548.   | 2.3 | 67        |
| 103 | Influences of z-axis increment and analyses of defects of AISI 316L stainless steel hollow thin-walled cylinder. International Journal of Advanced Manufacturing Technology, 2018, 97, 2203-2220.                                      | 1.5 | 18        |
| 104 | Process parameters optimization and mechanical properties of forming parts by direct laser fabrication of YCF101 alloy. Journal of Materials Processing Technology, 2018, 262, 75-84.  | 3.1 | 33        |
| 105 | Effect of TiO <sub>2</sub> addition and high magnetic field sintering on properties of vitrified bond CBN composites. Ceramics International, 2018, 44, 16307-16313.   | 2.3 | 4         |
| 106 | Experimental research and multi-response multi-parameter optimization of laser cladding Fe313. Optics and Laser Technology, 2018, 108, 321-332.  | 2.2 | 75        |
| 107 | MQL milling of TC4 alloy by dispersing graphene into vegetable oil-based cutting fluid. International Journal of Advanced Manufacturing Technology, 2018, 99, 1735-1753.   | 1.5 | 42        |
| 108 | Calculation and verification of Start/Stop optimum overlapping rate on metal DLF technology. International Journal of Advanced Manufacturing Technology, 2018, 99, 437-452.  | 1.5 | 8         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 109 | The study of ultrasonic vibration assisted polishing optical glass lens with ultrasonic atomizing liquid. <i>Journal of Manufacturing Processes</i> , 2018, 34, 389-400.  | 2.8 | 17        |
| 110 | Mechanical Property and Microstructure of the Vitrified-Bonded Ti-Coated CBN Composites. <i>International Journal of Automation Technology</i> , 2018, 12, 862-867.   | 0.5 | 0         |
| 111 | Analytical modeling of ground surface topography in monocrystalline silicon grinding considering the ductile-regime effect. <i>Archives of Civil and Mechanical Engineering</i> , 2017, 17, 880-893.                                | 1.9 | 48        |
| 112 | Analytical modeling of grinding-induced subsurface damage in monocrystalline silicon. <i>Materials and Design</i> , 2017, 130, 250-262.   | 3.3 | 89        |
| 113 | Detailed modeling of cutting forces in grinding process considering variable stages of grain-workpiece micro interactions. <i>International Journal of Mechanical Sciences</i> , 2017, 126, 319-339.                                | 3.6 | 114       |
| 114 | Instantaneous uncut chip thickness modeling for micro-end milling process. <i>Machining Science and Technology</i> , 2017, 21, 582-602.   | 1.4 | 7         |
| 115 | Clearance effected accuracy and error sensitivity analysis: A new nonlinear equivalent method for spatial parallel robot. <i>Journal of Mechanical Science and Technology</i> , 2017, 31, 5493-5504.                                | 0.7 | 6         |
| 116 | Study of 3D grinding temperature field based on finite difference method: considering machining parameters and energy partition. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 84, 915.                 | 1.5 | 23        |
| 117 | Cutting forces in micro-end-milling processes. <i>International Journal of Machine Tools and Manufacture</i> , 2016, 107, 21-40.  | 6.2 | 133       |
| 118 | Three-dimensional process stability prediction of thin-walled workpiece in milling operation. <i>Machining Science and Technology</i> , 2016, 20, 406-424.  | 1.4 | 12        |
| 119 | Kinematics modeling and simulating of grinding surface topography considering machining parameters and vibration characteristics. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 87, 2459-2470.          | 1.5 | 28        |
| 120 | Evaluation of grinding-induced subsurface damage in optical glass BK7. <i>Journal of Materials Processing Technology</i> , 2016, 229, 785-794.  | 3.1 | 97        |
| 121 | Experimental investigation on grinding characteristics of optical glass BK7: with special emphasis on the effects of machining parameters. <i>International Journal of Advanced Manufacturing Technology</i> , 2016, 82, 1405-1419. | 1.5 | 38        |
| 122 | Analysis of loads on grinding wheel binder in grinding process: insights from discontinuum-hypothesis-based grinding simulation. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 78, 1943-1960.           | 1.5 | 28        |
| 123 | Modeling and simulation of grinding wheel by discrete element method and experimental validation. <i>International Journal of Advanced Manufacturing Technology</i> , 2015, 81, 1921-1938.  | 1.5 | 24        |
| 124 | Modeling, simulation, and optimization of five-axis milling processes. <i>International Journal of Advanced Manufacturing Technology</i> , 2014, 74, 1611-1624.   | 1.5 | 17        |
| 125 | Simulation Analysis of Kinematics and Dynamics of 3-TPS Hybrid Robot. <i>Advanced Materials Research</i> , 2014, 983, 379-382.  | 0.3 | 1         |
| 126 | Researches on Virtual Machining Simulation of Flexible Manufacturing Cell Based on KUKA Robot. <i>Key Engineering Materials</i> , 2014, 621, 499-504.   | 0.4 | 2         |



| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 127 | A web-based virtual system for turn-milling center. International Journal of Advanced Manufacturing Technology, 2013, 67, 2395-2409.                            | 1.5 | 5         |
| 128 | Research and Application of NC Machine Tool Energy Consumption Control Optimization. Key Engineering Materials, 2013, 579-580, 314-319.                         | 0.4 | 1         |
| 129 | Analysis of TBM Monitoring Data Based on Grey Theory and Neural Network. Advances in Intelligent Systems and Computing, 2013, , 1071-1080.                      | 0.5 | 3         |
| 130 | Study and Development of the Document Management System Oriented Collaborative Design. Advanced Materials Research, 2012, 433-440, 2047-2052.                   | 0.3 | 1         |
| 131 | Dynamic Characteristics Analysis of Two-Phase Flow Diaphragm Pump Based on MATLAB and ADAMS. Key Engineering Materials, 2012, 522, 495-502.                     | 0.4 | 1         |
| 132 | Virtual Manufacturing for Machining Process Monitoring. Advanced Materials Research, 2012, 482-484, 2243-2246.  | 0.3 | 0         |
| 133 | Kinematics and Dynamics Simulation of Key Components of Wind Turbine. Advanced Materials Research, 2012, 476-478, 1790-1793.                                    | 0.3 | 0         |
| 134 | Designing and Finite Element Analysis of customized titanium plate for Mandible. , 2012, , .  |     | 0         |
| 135 | Research on fault diagnosis of TBM main bearing based on improved BP neural network. , 2012, , .  |     | 1         |
| 136 | Study on the Simulation of Grinding Burn. Advanced Materials Research, 2012, 565, 58-63.  | 0.3 | 0         |
| 137 | Modal Analysis of Spindle System on Ultra-high Speed Grinder. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2012, 48, 183.                  | 0.7 | 8         |
| 138 | Advances in Simulation of Grinding Process. Applied Mechanics and Materials, 2011, 121-126, 1879-1885.  | 0.2 | 2         |
| 139 | Research on Recycling of Numerical Control Machine Tools. , 2011, , .   |     | 0         |
| 140 | Dynamics Simulation of Automatic Capsule Filling Machine with ADAMS. Advanced Materials Research, 2011, 403-408, 5126-5130.                                     | 0.3 | 0         |
| 141 | Modeling and Simulation of Dynamic Characteristics of the Linear Rolling Guide in Turn-Milling Centre. Key Engineering Materials, 2011, 464, 358-361.           | 0.4 | 1         |
| 142 | Networked Technical Services Oriented Production Process. , 2011, , .   |     | 0         |
| 143 | Research on Function Simulation of Web-Based Virtual Grinding Machine Tool. Key Engineering Materials, 2011, 487, 495-499.                                      | 0.4 | 0         |
| 144 | Study on Simulation and Experiment of Dynamic Characteristics of the Linear Rolling Guide in Turn-Milling Centre. Advanced Science Letters, 2011, 4, 1913-1917. | 0.2 | 7         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 145 | The Application of Multi-scale Modeling Technology in Artificial Bone Graft. Lecture Notes in Electrical Engineering, 2011, , 699-705.  | 0.3 | 0         |
| 146 | Virtual CNC Cylindrical Grinding Machine Tool Based on Web. Advanced Science Letters, 2011, 4, 2839-2844.   | 0.2 | 0         |
| 147 | Research on Web-Based Virtual Grinding Machine Tool. Advanced Materials Research, 2010, 118-120, 825-829.   | 0.3 | 0         |
| 148 | Study on Supplier Selecting System Oriented Networked Manufacturing. Applied Mechanics and Materials, 2010, 44-47, 960-964.   | 0.2 | 0         |
| 149 | Study on the Ultrahigh Speed Grinding of Superhard Materials with Squeeze Film Damping Technology. Materials Science Forum, 2010, 638-642, 2369-2374.                         | 0.3 | 0         |
| 150 | Integrating Analytic Hierarchy Process and Genetic Algorithm for Aircraft Engine Maintenance Scheduling Problem. Advances in Intelligent and Soft Computing, 2010, , 897-915. | 0.2 | 3         |
| 151 | A Simulation System for Grinding Based on Virtual Reality. Advanced Materials Research, 2010, 126-128, 96-100.  | 0.3 | 1         |
| 152 | Kinematics Simulation Analysis of Turn-Milling Center Based on Virtual Prototype. Applied Mechanics and Materials, 2010, 43, 683-686.   | 0.2 | 0         |
| 153 | Research on Flatness Error Measurement of Revolving Body End-Face. Applied Mechanics and Materials, 2010, 44-47, 4002-4006.   | 0.2 | 2         |
| 154 | Study on collaborative technical service oriented product lifecycle. , 2010, , .  |     | 0         |
| 155 | Research on key technology of machining simulation based on Web. , 2010, , .  |     | 0         |
| 156 | Milling Feature Recognition and Construction for Structural Parts Based on STEP. , 2010, , .  |     | 0         |
| 157 | Application of GC-TOPSIS Method in the Process of Supplier Evaluation. , 2009, , .  |     | 3         |
| 158 | Development and Research of Simulation System of Vitrified Bond CBN Grinding Wheel Based on Virtual Reality Technology. , 2009, , .   |     | 3         |
| 159 | Research on Technical Service System in New Product Development. , 2009, , .  |     | 0         |
| 160 | Research of three-dimensional parametric design system based on personalization and customization. , 2009, , .  |     | 0         |
| 161 | Study on the Dynamic Characteristics of Ultrahigh Speed Grinding Spindle Based on Squeeze Film Damping Technology. Key Engineering Materials, 2009, 416, 123-126.             | 0.4 | 0         |
| 162 | Analysis of dynamic performance simulation for turn-milling centre. International Journal of Modelling, Identification and Control, 2009, 7, 33.                              | 0.2 | 1         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 163 | Remote Fault Diagnosis System of Ultrahigh Speed Grinding Based on Multi-Agent. Advanced Materials Research, 2009, 76-78, 67-71. | 0.3 | 0         |
| 164 | System of Networked Technical Service Oriented Product Lifecycle. Applied Mechanics and Materials, 2009, 16-19, 607-611.         | 0.2 | 0         |
| 165 | Modeling of Virtual Grinding Wheel and its Grinding Simulation. Key Engineering Materials, 2009, 416, 216-222.                   | 0.4 | 4         |
| 166 | Decision Support System of Product Development Based on Multi-agent. , 2009, , .   |     | 4         |
| 167 | Study on project management system oriented collaborative design. , 2009, , .  |     | 1         |
| 168 | A networked integrated manufacturing system oriented product lifecycle based on multi-agent. , 2009, , .                         |     | 0         |
| 169 | Study on collaborative technical service system oriented product lifecycle based on multi-agent. , 2009, , .                     |     | 2         |
| 170 | Web-based system for industry using information and communication technologies. Kybernetes, 2009, 38, 533-541.                   | 1.2 | 2         |
| 171 | Research on Web-Based Multi-Agent System for Aeroengine Fault Diagnosis. , 2008, , .   |     | 1         |
| 172 | Study on partner selection of the agile supply chain based on fuzzy analytic hierarchy process. , 2008, , .                      |     | 1         |
| 173 | Research of Networked Technical Services System Oriented Product Lifecycle. , 2008, , .  |     | 0         |
| 174 | Research of collaborative process workflow modeling based on stochastic Petri nets. , 2008, , .                                  |     | 0         |
| 175 | Research on prognostic health management (PHM) model for fighter planes based on flight data. , 2008, , .                        |     | 5         |
| 176 | Research of networked technical service oriented production process based on multi-agent. , 2008, , .                            |     | 0         |
| 177 | Dynamic scheduling of flexible job shop based on genetic algorithm. , 2008, , .  |     | 1         |
| 178 | Application of BP neural network for decision supported system oriented cooperative design. , 2008, , .                          |     | 0         |
| 179 | Study on Networked Technical Service System Oriented Product Lifecycle. , 2008, , .  |     | 0         |
| 180 | An Intelligent Decision Support System Based on MAS for Product Development. , 2008, , .   |     | 0         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 181 | Study on Project Experts' Evaluation Based on Analytic Hierarchy Process and Fuzzy Comprehensive Evaluation. , 2008, , .         |     | 11        |
| 182 | Neural Network Model Based Job Scheduling and Its Implementation in Networked Manufacturing. , 2008, , .                         |     | 0         |
| 183 | Commerce search engine evaluation based on fuzzy analytical hierarchy process. , 2008, , .                                       |     | 0         |
| 184 | Research of networked technical service oriented production process based on CSCW. , 2008, , .                                   |     | 0         |
| 185 | Product Quality Design Based on CSCW under Networked Manufacturing. , 2008, , .  |     | 1         |
| 186 | Intelligentized networked manufacturing technique and process modeling. , 2008, , .  |     | 0         |
| 187 | System of CRM Performance Evaluation Based on Fuzzy Comprehensive Algorithm. , 2008, , .   |     | 4         |
| 188 | Optimal Scheduling of Resources Based on Fuzzy Set and Genetic Algorithm. , 2008, , .  |     | 1         |
| 189 | A Study on Key Technique of Product Configuration System Based on Improved Ant Colony Algorithm. , 2008, , .                     |     | 0         |
| 190 | Research on Body Movement Interacting Model in Virtual Environment. , 2008, , .  |     | 0         |
| 191 | Research on CRM Performance Evaluation Based on Fuzzy Comprehensive Algorithm. , 2008, , .                                       |     | 1         |
| 192 | Research on Green Technical Services System Oriented Product Lifecycle. , 2007, , .  |     | 0         |
| 193 | Research on project evaluation system based on 'black box' technology. , 2007, , .   |     | 0         |
| 194 | Application of magnetorheological fluid squeeze film dampers in ultra-high speed grinding. Proceedings of SPIE, 2007, 6423, 517. | 0.8 | 0         |
| 195 | Research on motion simulation for robot based on virtual reality. , 2007, , .  |     | 4         |
| 196 | Research on After-Sale Services Evaluation Based-Analytic Hierarchy Process and Fuzzy Comprehensive Evaluation. , 2007, , .      |     | 0         |
| 197 | Research on Virtual NC Technique in Turning and Milling Process. , 2007, , .   |     | 4         |
| 198 | Dynamic Analysis and Design of the Spindle-Bearing System in Turn-milling Centre. , 2007, , .                                    |     | 4         |

| #   | ARTICLE  | IF  | CITATIONS |
|-----|--|-----|-----------|
| 199 | Research on Supply Chain Negotiation under Networked Manufacturing Environment. , 2006, , .  |     | 0         |
| 200 | STUDY ON APPLICATION OF SQUEEZE FILM DAMPER IN PRECISION HOLE GRINDING. Jixie Gongcheng Xuebao/Chinese Journal of Mechanical Engineering, 2003, 39, 114. | 0.7 | 1         |
| 201 | Experimental Study of the Ultrahigh Speed Grinding Spindle System with a Squeeze Film Damper. Key Engineering Materials, 0, 375-376, 658-662.            | 0.4 | 0         |
| 202 | Experiment Study on Vitrified Bonded Wheels of Quick-Point Grinding. Advanced Materials Research, 0, 53-54, 237-242.                                     | 0.3 | 0         |
| 203 | Deep Hole Honing Based on Squeeze Film Damping Technology. Advanced Materials Research, 0, 76-78, 252-257.   | 0.3 | 1         |
| 204 | Study on Deep Hole Honing Based on Squeeze Film Technology. Key Engineering Materials, 0, 407-408, 545-549.  | 0.4 | 0         |
| 205 | Machine Tool Selection Based on AHP and ACO. Applied Mechanics and Materials, 0, 44-47, 874-878.   | 0.2 | 1         |
| 206 | Research on Machining Simulation of Ultra High-Speed Grinding Machine Tool Based on Web. Advanced Materials Research, 0, 126-128, 77-81.                 | 0.3 | 0         |
| 207 | Development of CNC Milling System for NURBS Interpolation Based on IGES. Advanced Materials Research, 0, 102-104, 663-668.                               | 0.3 | 0         |
| 208 | Investigation of Grinding Process Simulation. Advanced Materials Research, 0, 126-128, 119-124.  | 0.3 | 1         |
| 209 | Finite Element Analysis on Dynamic Characteristics of Hybrid Bearing Spindle System. Key Engineering Materials, 0, 487, 505-509.                         | 0.4 | 0         |
| 210 | Function Simulation of the TBM Based on VRML. Advanced Materials Research, 0, 328-330, 67-70.  | 0.3 | 0         |
| 211 | Research on SOA-Based Decision-Making Support of VE Establishing. Advanced Materials Research, 0, 314-316, 2042-2045.                                    | 0.3 | 0         |
| 212 | Research on Macro Simulation of Surface Grinding Based on FEM. Advanced Materials Research, 0, 325, 79-84.   | 0.3 | 1         |
| 213 | Fatigue Reliability and Optimal Design Research of TBM Cutter. Advanced Materials Research, 0, 328-330, 18-21.   | 0.3 | 0         |
| 214 | Dynamics Simulation of Capsule Filling Machine Based Virtual Prototype. Applied Mechanics and Materials, 0, 127, 582-587.                                | 0.2 | 1         |
| 215 | Experiment Study Based on Nano-Ceramic Grinding Wheel Bond. Advanced Materials Research, 0, 299-300, 250-254.  | 0.3 | 4         |
| 216 | Boolean Operations for the Simulation of Machining Processes Based on the CSG Modeling Technique. Advanced Materials Research, 0, 538-541, 951-954.      | 0.3 | 0         |

| #   | ARTICLE   | IF  | CITATIONS |
|-----|---|-----|-----------|
| 217 | Physical Simulation of Cutting Process and Optimization of Cutting Parameters. Key Engineering Materials, 0, 522, 210-216.  | 0.4 | 0         |
| 218 | Thermal-Mechanical Analysis of Hybrid Spindle System Based on FEM. Advanced Materials Research, 0, 565, 644-649.  | 0.3 | 3         |
| 219 | Simulation Analysis of Drive System of Wind Turbine Gearboxes. Advanced Materials Research, 0, 476-478, 2079-2082.  | 0.3 | 1         |
| 220 | Thermal Characteristics Analysis of Liquid Hybrid Bearing on Ultra-High Speed Grinding. Advanced Materials Research, 0, 565, 171-176.                                   | 0.3 | 1         |
| 221 | Research on Production and Order Decision for Supply Chain Members of Virtual Enterprises in Uncertain Environment. Key Engineering Materials, 0, 546, 45-49.           | 0.4 | 0         |
| 222 | Study on Radial Deformation of CBN Grinding Wheel Considering Centrifugal Force and Grinding Heat. Advanced Materials Research, 0, 797, 500-504.                        | 0.3 | 3         |
| 223 | Kinematics and Dynamics Simulation of a New Type Direct-Drive NC Turret Tool Post. Applied Mechanics and Materials, 0, 325-326, 247-251.                                | 0.2 | 0         |
| 224 | Research on Surface Quality for CBN Grinding Wheel Based on "Speed Effect". Key Engineering Materials, 0, 667, 130-135.   | 0.4 | 0         |
| 225 | Effect of $\text{Li}_2\text{O}$ , $\text{K}_2\text{O}$ and $\text{ZnO}$ on Vitrified Bond Composites for CBN Grinding Wheels. Materials Science Forum, 0, 874, 193-198. | 0.3 | 1         |
| 226 | Experimental Study on Precision Hole Machining with Squeeze Film Damping Technology. Key Engineering Materials, 0, , 90-94.   | 0.4 | 1         |