Hang Gao

List of Publications by Year
in descending order

46	461	759233	794594
papers	citations	12 h-index	19 g-index

47	47	47	288
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Force model of freeform surface multi-axis machining with fillet end mill based on analytical contact analysis. International Journal of Advanced Manufacturing Technology, 2022, 118, 1283-1294.	3.0	4
2	Experimental investigations of machining characteristics on polydimethylsiloxane (PDMS) by cryogenic abrasive air-jet machining. International Journal of Advanced Manufacturing Technology, 2022, 118, 2711-2723.	3.0	5
3	Topology and shape optimization of twin-web turbine disk. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	4
4	Effect of Wetting Characteristics of Polishing Fluid on the Quality of Water-Dissolution Polishing of KDP Crystals. Micromachines, 2022, 13, 535.	2.9	8
5	A Novel High Recognition Rate Defect Inspection Method for Carbon Fiber Plain-Woven Prepreg Based on Image Texture Feature Compression. Polymers, 2022, 14, 1855.	4.5	2
6	Erosion field characteristics of depth-control micro-hole profiles machined by abrasive waterjet based on FSI coupling. International Journal of Advanced Manufacturing Technology, 2022, 120, 7575-7593.	3.0	3
7	Mechanism of reduction of damage during helical milling of titanium/CFRP/aluminium stacks. International Journal of Advanced Manufacturing Technology, 2020, 107, 4741-4753.	3.0	14
8	An efficient approach to improving the finishing properties of abrasive flow machining with the analyses of initial surface texture of workpiece. International Journal of Advanced Manufacturing Technology, 2020, 107, 2417-2432.	3.0	11
9	Experimental study on high-efficiency polishing for potassium dihydrogen phosphate (KDP) crystal by using two-phase airâ€”water fluid. Frontiers of Mechanical Engineering, 2020, 15, 294-302.	4.3	1
10	An investigation into the abrasive waterjet milling circular pocket on titanium alloy. International Journal of Advanced Manufacturing Technology, 2020, 107, 4503-4515.	3.0	26
11	Experimental investigation into the effect of abrasive process parameters on the cutting performance for abrasive waterjet technology: a case study. International Journal of Advanced Manufacturing Technology, 2020, 107, 2757-2765.	3.0	23
12	Rheological characterisation of abrasive media and finishing behaviours in abrasive flow machining. International Journal of Advanced Manufacturing Technology, 2020, 107, 3569-3580.	3.0	27
13	Investigation of the trajectory uniformity in water dissolution ultraprecision continuous polishing of large-sized KDP crystal. International Journal of Extreme Manufacturing, 2020, 2, 045101.	12.7	15
14	Formation mechanism of burr defect in aramid fiber composites based on fly-cutting test. International Journal of Advanced Manufacturing Technology, 2019, 104, 1531-1540.	3.0	9
15	A study of abrasive waterjet multi-pass cutting on kerf quality of carbon fiber-reinforced plastics. International Journal of Advanced Manufacturing Technology, 2019, 105, 4527-4537.	3.0	21
16	Investigation on temperature field of unidirectional carbon fiber/epoxy composites during drilling process. Journal of Central South University, 2019, 26, 2717-2728.	3.0	3
17	Mechanical and thermal behaviors of ultra-high molecular weight polyethylene triaxial braids: the influence of structural parameters. Textile Reseach Journal, 2019, 89, 3362-3373.	2.2	10
18	Evaluation of Assembly Gap from 3D Laser Measurements via FEA Simulation. International Journal of Aerospace Engineering, 2018, 2018, 1-7.	0.9	2

#	Article	IF	Citations
19	Thermo-Mechanical Characterisations of Flax Fibre and Thermoplastic Resin Composites during Manufacturing. Polymers, 2018, 10, 1139.	4.5	5
20	Numerical Analysis of the Influences of Geometrical Deviation on Delamination in Composite Laminates around the Countersunk Hole. International Journal of Aerospace Engineering, 2018, 2018, 1-11.	0.9	0
21	Laser Induced Damage of Potassium Dihydrogen Phosphate (KDP) Optical Crystal Machined by Water Dissolution Ultra-Precision Polishing Method. Materials, 2018, 11, 419.	2.9	11
22	Numerical and experimental investigations on temperature distribution of plain-woven aramid fiber-reinforced plastics composites with low-mild spindle velocities. International Journal of Advanced Manufacturing Technology, 2018, 99, 613-622.	3.0	11
23	Investigation on the cleaning of KDP ultra-precision surface polished with micro water dissolution machining principle. Science China Technological Sciences, 2017, 60, 27-35.	4.0	4
24	A methodology for helical mill-grinding of tiny internal threads made of hard brittle materials. International Journal of Advanced Manufacturing Technology, 2017, 91, 25-37.	3.0	10
25	Research progress on ultra-precision machining technologies for soft-brittle crystal materials. Frontiers of Mechanical Engineering, 2017, 12, 77-88.	4.3	10
26	A Measurement Method for Large Parts Combining with Feature Compression Extraction and Directed Edge-Point Criterion. Sensors, 2017, 17, 40.	3.8	4
27	Effects of Hole Perpendicularity Error on Mechanical Performance of Single-Lap Double-Bolt Composite Joints. International Journal of Polymer Science, 2017, 2017, 1-11.	2.7	8
28	Blade surface uniformity of blisk finished by abrasive flow machining. International Journal of Advanced Manufacturing Technology, 2016, 84, 1725.	3.0	33
29	A water dissolution method for removing micro-waviness caused by SPDT process on KDP crystals. International Journal of Advanced Manufacturing Technology, 2016, 85, 1347-1360.	3.0	25
30	Micro water dissolution machining principle and its application in ultra-precision processing of KDP optical crystal. Science China Technological Sciences, 2015, 58, 1877-1883.	4.0	13
31	The large aero-engine NC installation method and its multi-axial position adjustment platform design. , 2013, , .		1
32	An experimental investigation on slicing of potassium dihydrogen phosphate crystal. Proceedings of the Institution of Mechanical Engineers, Part B: Journal of Engineering Manufacture, 2013, 227, 890-897.	2.4	5
33	A New High-Efficiency and Low-Damage Polishing Process of HgCdTe Wafer. Materials and Manufacturing Processes, 2012, 27, 229-232.	4.7	1
34	A method to analyze the difference of 3-D CAD model files based on feature extraction. Journal of Mechanical Science and Technology, 2011, 25, 971-976.	1.5	4
35	Effect of mechanical anisotropy on material removal rate and surface quality during polishing CdZnTe wafers. Rare Metals, 2011, 30, 381-386.	7.1	1
36	Nanoscale machinability and subsurface damage machined by CMP of soft-brittle CdZnTe crystals. International Journal of Advanced Manufacturing Technology, 2010, 47, 1105-1112.	3.0	26

#	Article	IF	Citations
37	Subsurface crystal lattice deformation machined by ultraprecision grinding of soft-brittle CdZnTe crystals. International Journal of Advanced Manufacturing Technology, 2010, 47, 1065-1081.	3.0	20
38	Damage mechanisms during lapping and mechanical polishing CdZnTe wafers. Rare Metals, 2010, 29, 276-279.	7.1	4
39	Anisotropic Damage Mechanism during Grinding of CdZnTe Wafers. Materials and Manufacturing Processes, 2010, 25, 407-411.	4.7	2
40	Water-in-Oil Dispersion for KH₂PO₄(KDP) Crystal CMP. Journal of Dispersion Science and Technology, 2010, 31, 1611-1617.	2.4	22
41	Mechanical Properties of Potassium Dihydrogen Phosphate Single Crystal by the Nanoindentation Technique. Materials and Manufacturing Processes, 2010, 25, 740-748.	4.7	21
42	Effect of Mechanical Anisotropy on Grinding of CdZnTe Wafers. Materials and Manufacturing Processes, 2010, 25, 412-417.	4.7	7
43	Nanocutting Process of CdZnTe Single Crystals. Materials and Manufacturing Processes, 2009, 24, 504-508.	4.7	2
44	Nanomechanical behaviors of (110) and (111) CdZnTe crystals investigated by nanoindentation. Rare Metals, 2009, 28, 570-575.	7.1	10
45	Unusual stress behaviour of La2O3- and CeO2-doped diamond-like carbon nanofilms. Philosophical Magazine Letters, 2008, 88, 567-574.	1.2	3
46	Research on the Drilling Temperature Field Model of the Unidirectional Carbon Fiber Epoxy Composites. Advanced Materials Research, 0, 565, 478-483.	0.3	10