## Jiwang Yan

List of Publications by Year in descending order

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Ιυμανίς Υλν

| #  | Article  | IF  | CITATIONS |
|----|--|-----|-----------|
| 1  | Microscale Surface Patterning of Zirconia by Femtosecond Pulsed Laser Irradiation. International<br>Journal of Precision Engineering and Manufacturing - Green Technology, 2022, 9, 619-632.   | 2.7 | 15        |
| 2  | Nitrogen assisted formation of large-area ripples on Ti6Al4V surface by nanosecond pulse laser irradiation. Precision Engineering, 2022, 73, 244-256.  | 1.8 | 15        |
| 3  | Fabrication of micro-structured surface with controllable randomness by using FTS-based diamond turning. Precision Engineering, 2022, 73, 363-376.   | 1.8 | 12        |
| 4  | Flexible fabrication of Fresnel micro-lens array by off-spindle-axis diamond turning and precision glass molding. Precision Engineering, 2022, 74, 186-194.  | 1.8 | 9         |
| 5  | Nanosecond pulsed laser-induced formation of nanopattern on Fe-based metallic glass surface.<br>Applied Surface Science, 2022, 577, 151976.  | 3.1 | 15        |
| 6  | Development of High-Sensitivity Electrically Conductive Composite Elements by Press Molding of Polymer and Carbon Nanofibers. Micromachines, 2022, 13, 170.  | 1.4 | 1         |
| 7  | Microstructures and mechanical properties of Zr-based metallic glass ablated by nanosecond pulsed laser in various gas atmospheres. Journal of Alloys and Compounds, 2022, 901, 163717.  | 2.8 | 11        |
| 8  | Response of Resin Coating Films Containing Fine Metal Particles to Ultrashort Laser Pulses.<br>International Journal of Precision Engineering and Manufacturing, 2022, 23, 385-393.  | 1.1 | 3         |
| 9  | Tool path generation and optimization for freeform surface diamond turning based on an independently controlled fast tool servo. International Journal of Extreme Manufacturing, 2022, 4, 025102.  | 6.3 | 12        |
| 10 | The effects of simultaneous laser nitriding and texturing on surface hardness and tribological properties of Ti6Al4V. Surface and Coatings Technology, 2022, 437, 128358.  | 2.2 | 13        |
| 11 | Generation of micro/nano hybrid surface structures on copper by femtosecond pulsed laser irradiation. Nanomanufacturing and Metrology, 2022, 5, 274-282.   | 1.5 | 13        |
| 12 | Exploratory investigation of chip formation and surface integrity in ultra-high-speed gear hobbing.<br>CIRP Annals - Manufacturing Technology, 2022, 71, 89-92.  | 1.7 | 4         |
| 13 | Visualization of indentation induced sub-surface shear bands of Zr-based metallic glass by nanosecond pulse laser irradiation. Vacuum, 2022, 202, 111141.  | 1.6 | 3         |
| 14 | Nanometric cutting: Mechanisms, practices and future perspectives. International Journal of Machine<br>Tools and Manufacture, 2022, 178, 103905.   | 6.2 | 38        |
| 15 | Amorphous Carbon Coated Silicon Wafer as Mold Insert for Precision Glass Molding. Procedia CIRP, 2022, 108, 525-530.   | 1.0 | 2         |
| 16 | A novel method for fabricating micro-dimple arrays with good surface quality on metallic glass<br>substrate by combining laser irradiation and mechanical polishing under wax sealing. Journal of<br>Manufacturing Processes, 2022, 79, 911-923. | 2.8 | 5         |
| 17 | On the conversion of point-to-linear hierarchical micro/nano-structures on the glassy carbon surface by nanosecond pulsed laser irradiation. Applied Surface Science, 2022, 599, 153978.   | 3.1 | 0         |
| 18 | Micro Electrical Discharge Machining of Ultrafine Particle Type Tungsten Carbide Using Dielectrics<br>Mixed with Various Powders. Micromachines, 2022, 13, 998.  | 1.4 | 8         |

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|----|---|-----|-----------|
| 19 | Crack Propagation Behavior of Fused Silica during Cyclic Indentation under Incremental Loads.<br>Applied Sciences (Switzerland), 2022, 12, 6589.  | 1.3 | 0         |
| 20 | Ultrasonic Vibration-Assisted Grinding of Carbon-Based Difficult-to-Cut Materials. Journal of the<br>Japan Society for Precision Engineering, 2022, 88, 541-545.  | 0.0 | 0         |
| 21 | Influence of Wax Lubrication on Cutting Performance of Single-Crystal Silicon in Ultraprecision<br>Microgrooving. International Journal of Precision Engineering and Manufacturing - Green<br>Technology, 2021, 8, 611-624.         | 2.7 | 8         |
| 22 | New evidences for understanding the serrated flow and shear band behavior in nanoindentation of metallic glasses. Journal of Alloys and Compounds, 2021, 857, 157587.   | 2.8 | 8         |
| 23 | Softening and hardening on a Zr-based bulk metallic glass induced by nanosecond laser surface<br>melting. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and<br>Processing, 2021, 803, 140497. | 2.6 | 6         |
| 24 | Machinability exploration for high-entropy alloy FeCrCoMnNi by ultrasonic vibration-assisted diamond turning. CIRP Annals - Manufacturing Technology, 2021, 70, 37-40.  | 1.7 | 23        |
| 25 | Fundamental Investigation of Diamond Cutting of Micro V-Shaped Grooves on a Polycrystalline<br>Soft-Brittle Material. Journal of Manufacturing and Materials Processing, 2021, 5, 17.   | 1.0 | 5         |
| 26 | One-step fabrication of regular hierarchical micro/nano-structures on glassy carbon by nanosecond pulsed laser irradiation. Journal of Manufacturing Processes, 2021, 62, 108-118.  | 2.8 | 15        |
| 27 | Diffraction manipulation of visible light with submicron structures for structural coloration fabrication. Optics Express, 2021, 29, 9294.  | 1.7 | 13        |
| 28 | Chip-free surface patterning of toxic brittle polycrystalline materials through micro/nanoscale burnishing. International Journal of Machine Tools and Manufacture, 2021, 162, 103688.  | 6.2 | 17        |
| 29 | Deterministic error compensation for slow tool servo-driven diamond turning of freeform surface with nanometric form accuracy. Journal of Manufacturing Processes, 2021, 64, 45-57.   | 2.8 | 37        |
| 30 | Annealed high-phosphorus electroless Ni–P coatings for producing molds for precision glass<br>molding. Materials Chemistry and Physics, 2021, 262, 124297.  | 2.0 | 15        |
| 31 | Evolution of high-pressure metastable phase Si-XIII during silicon nanoindentation: A molecular dynamics study. Computational Materials Science, 2021, 191, 110344.   | 1.4 | 6         |
| 32 | Effects of relative tool sharpness on surface generation mechanism of precision turning of<br>electroless nickel-phosphorus coating. Journal of Mechanical Science and Technology, 2021, 35,<br>3113-3121.                          | 0.7 | 5         |
| 33 | Machinability Investigation for Cellulose Nanofiber-Reinforced Polymer Composite by Ultraprecision Diamond Turning. International Journal of Automation Technology, 2021, 15, 475-482.  | 0.5 | 0         |
| 34 | On the transformation between micro-concave and micro-convex in nanosecond laser ablation of a Zr-based metallic glass. Journal of Manufacturing Processes, 2021, 68, 1114-1122.  | 2.8 | 24        |
| 35 | Laser nitriding of Zr-based metallic glass: An investigation by orthogonal experiments. Surface and<br>Coatings Technology, 2021, 424, 127657.  | 2.2 | 18        |
| 36 | Deformation behaviour of soft-brittle polycrystalline materials determined by nanoscratching with a sharp indenter. Precision Engineering, 2021, 72, 717-729.   | 1.8 | 13        |

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|----|--|-----|-----------|
| 37 | Surface functionalization of Zr-based metallic glass by direct nanosecond laser texturing. Vacuum, 2021, 194, 110635.  | 1.6 | 5         |
| 38 | Single-grain cutting based modeling of abrasive belt wear in cylindrical grinding. Friction, 2020, 8, 208-220.   | 3.4 | 20        |
| 39 | Generation of microcones on reaction-bonded silicon carbide by nanosecond pulsed laser irradiation.<br>International Journal of Advanced Manufacturing Technology, 2020, 108, 1039-1048.   | 1.5 | 6         |
| 40 | Effects of deep subsurface damages on surface nanostructure formation in laser recovery of grinded single-crystal silicon wafers. Precision Engineering, 2020, 62, 213-222.  | 1.8 | 12        |
| 41 | Effect of relative tool sharpness on subsurface damage and material recovery in nanometric cutting of mono-crystalline silicon: A molecular dynamics approach. Materials Science in Semiconductor Processing, 2020, 108, 104868. | 1.9 | 18        |
| 42 | Laser sintering of silicon powder and carbon nanofibers. , 2020, , 169-179.  |     | 0         |
| 43 | Micropillar formation from silicon powder. , 2020, , 181-195.  |     | Ο         |
| 44 | Effects of cyclic loading on subsurface microstructural changes of zirconia polycrystals in<br>nanoscale mechanical processing. International Journal of Machine Tools and Manufacture, 2020, 159,<br>103626.                    | 6.2 | 12        |
| 45 | Algorithm of Micro-Grooving and Imaging Processing for the Generation of High-Resolution Structural Color Images. Nanomanufacturing and Metrology, 2020, 3, 187-198.   | 1.5 | 12        |
| 46 | Surface modification of tungsten carbide cobalt by electrical discharge coating with quarry dust suspension. International Journal of Advanced Manufacturing Technology, 2020, 111, 2105-2116.                                   | 1.5 | 9         |
| 47 | Laser induced micro-cracking of Zr-based metallic glass using 1011 W/m2 nano-pulses. Materials Today<br>Communications, 2020, 25, 101554.  | 0.9 | 5         |
| 48 | Generating Silicon Nanofiber Clusters from Grinding Sludge by Millisecond Pulsed Laser Irradiation.<br>Nanomaterials, 2020, 10, 812.   | 1.9 | 3         |
| 49 | Generation of high-saturation two-level iridescent structures by vibration-assisted fly cutting.<br>Materials and Design, 2020, 193, 108839.   | 3.3 | 27        |
| 50 | Micromachining of single-crystal diamond. , 2020, , 75-92.   |     | 0         |
| 51 | Modification of surface property of alumina sprayed coating. , 2020, , 159-168.  |     | 0         |
| 52 | Manufacturing of multiscale structured surfaces. CIRP Annals - Manufacturing Technology, 2020, 69,<br>717-739.   | 1.7 | 73        |
| 53 | Micromachining of microstructures on sapphire. , 2020, , 93-108.   |     | 0         |
| 54 | Laser recovery of silicon single crystals. , 2020, , 123-142.  |     | 0         |

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|----|--|-----|-----------|
| 55 | Generating Nanodot Structures on Stainless-Steel Surfaces by Cross Scanning of a Picosecond Pulsed<br>Laser. Nanomanufacturing and Metrology, 2020, 3, 105-111.  | 1.5 | 16        |
| 56 | Surface modification and functionalization by electrical discharge coating: a comprehensive review.<br>International Journal of Extreme Manufacturing, 2020, 2, 012004.  | 6.3 | 47        |
| 57 | Silicon nanoparticle generation and deposition on glass from waste silicon powder by nanosecond pulsed laser irradiation. Materials Science in Semiconductor Processing, 2020, 111, 104998.                            | 1.9 | 10        |
| 58 | Direct observation of discharging phenomena in vibration-assisted micro-electrical discharge<br>machining. International Journal of Advanced Manufacturing Technology, 2020, 108, 1125-1138.                           | 1.5 | 9         |
| 59 | Nanoparticle generation from various types of silicon materials by nanosecond-pulsed laser irradiation. Applied Physics Express, 2020, 13, 026505.   | 1.1 | 6         |
| 60 | Surface formation mechanism in ultraprecision diamond turning of coarse-grained polycrystalline<br>ZnSe. International Journal of Machine Tools and Manufacture, 2020, 153, 103554.                                    | 6.2 | 33        |
| 61 | Multiscale Surface Patterning of Zirconia by Picosecond Pulsed Laser Irradiation. Journal of Micro<br>and Nano-Manufacturing, 2020, 8, .   | 0.8 | 3         |
| 62 | Measurement and Compensation of Tool Contour Error Using White Light Interferometry for<br>Ultra-Precision Diamond Turning of Freeform Surfaces. International Journal of Automation<br>Technology, 2020, 14, 654-664. | 0.5 | 9         |
| 63 | Surface Formation Behaviors in Wavy Microgroove Cutting on Various Workpiece Materials.<br>International Journal of Automation Technology, 2020, 14, 245-252.  | 0.5 | 2         |
| 64 | The coupling effects of laser thermal shock and surface nitridation on mechanical properties of Zr-based metallic glass. Journal of Alloys and Compounds, 2019, 770, 864-874.  | 2.8 | 19        |
| 65 | Molecular Dynamics Investigation of Nanometric Cutting of Single-Crystal Silicon Using a Blunt Tool.<br>Jom, 2019, 71, 4296-4304.  | 0.9 | 12        |
| 66 | Manufacturing technologies toward extreme precision. International Journal of Extreme<br>Manufacturing, 2019, 1, 022001.   | 6.3 | 72        |
| 67 | Effect of the Pillar Size on the Electrochemical Performance of Laser-Induced Silicon Micropillars as<br>Anodes for Lithium-Ion Batteries. Applied Sciences (Switzerland), 2019, 9, 3623.                              | 1.3 | 6         |
| 68 | Distortion measurement of optical system using phase diffractive beam splitter. Optics Express, 2019, 27, 29803.   | 1.7 | 9         |
| 69 | Investigation on wear modes and mechanisms of abrasive belts in grinding of U71Mn steel.<br>International Journal of Advanced Manufacturing Technology, 2019, 101, 1821-1835.  | 1.5 | 22        |
| 70 | Chip morphology and surface integrity in ultraprecision cutting of yttria-stabilized tetragonal zirconia polycrystal. CIRP Annals - Manufacturing Technology, 2019, 68, 53-56.   | 1.7 | 14        |
| 71 | Direct observations of multi-cyclic nanoindentation-induced phase transformations in single-crystal<br>Ge. Materials Research Express, 2019, 6, 075065.  | 0.8 | 2         |
| 72 | Formation behavior of laser-induced periodic surface structures on stainless tool steel in various media. Precision Engineering, 2019, 57, 244-252.  | 1.8 | 24        |

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|----|---|-----|-----------|
| 73 | Improving the Surface Integrity of Additive-Manufactured Metal Parts by Ultrasonic<br>Vibration-Assisted Burnishing. Journal of Micro and Nano-Manufacturing, 2019, 7, .                          | 0.8 | 23        |
| 74 | Laser recovery of grinding-induced subsurface damage in the edge and notch of a single-crystal silicon wafer. Surface Topography: Metrology and Properties, 2019, 7, 015013.                      | 0.9 | 6         |
| 75 | Effects of tool rake angle and tool nose radius on surface quality of ultraprecision diamond-turned porous silicon. Journal of Manufacturing Processes, 2019, 37, 321-331.                        | 2.8 | 19        |
| 76 | Ultrasonic vibration-assisted microgrinding of glassy carbon. Proceedings of the Institution of<br>Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2019, 233, 4165-4175. | 1.1 | 10        |
| 77 | Ultra-precision cutting of roll molds having two-directional wavy microstructures. Transactions of the JSME (in Japanese), 2019, 85, 19-00105-19-00105.   | 0.1 | 1         |
| 78 | Study on Infrared Transmittance of Si-Polymer Hybrid Structure Press Molded Using a Coupling Agent.<br>International Journal of Automation Technology, 2019, 13, 817-824.                         | 0.5 | 0         |
| 79 | Laser Patterning of Metallic Glass. Toxinology, 2018, , 1-29.   | 0.2 | 0         |
| 80 | Tool-Servo Driven Diamond Turning for Structured Surface. Micro/Nano Technologies, 2018, , 1-31.  | 0.1 | 0         |
| 81 | Ultraprecision cutting of single-crystal calcium fluoride for fabricating micro flow cells. Journal of<br>Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0021-JAMDSM0021. | 0.3 | 9         |
| 82 | Fracture toughness and sliding properties of magnetron sputtered CrBC and CrBCN coatings. Applied Surface Science, 2018, 443, 635-643.  | 3.1 | 15        |
| 83 | Material removal mechanism and surface integrity in ultraprecision cutting of porous titanium.<br>Precision Engineering, 2018, 52, 356-369.   | 1.8 | 23        |
| 84 | Softening of Zr-based metallic glass induced by nanosecond pulsed laser irradiation. Journal of Alloys and Compounds, 2018, 754, 215-221.   | 2.8 | 22        |
| 85 | Precision slicing of single-crystal SiC using extremely fine fixed-abrasive diamond wire. Transactions of the JSME (in Japanese), 2018, 84, 17-00345-17-00345.                                    | 0.1 | 2         |
| 86 | Microgrooving of a single-crystal diamond tool using a picosecond pulsed laser and some cutting tests. Precision Engineering, 2018, 53, 252-262.  | 1.8 | 13        |
| 87 | Nanoscale surface patterning of diamond utilizing carbon diffusion reaction with a microstructured titanium mold. CIRP Annals - Manufacturing Technology, 2018, 67, 181-184.                      | 1.7 | 5         |
| 88 | Micro-electrical Discharge Machining of Hard Brittle Materials. Toxinology, 2018, , 1-32.   | 0.2 | 0         |
| 89 | Nanosecond pulsed laser irradiation of sapphire for developing microstructures with deep V-shaped grooves. Precision Engineering, 2018, 52, 440-450.  | 1.8 | 21        |
| 90 | Tool-Servo Driven Diamond Turning for Structured Surface. Micro/Nano Technologies, 2018, , 1-31.  | 0.1 | 0         |

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|-----|---|-----|-----------|
| 91  | Press Molding of Hybrid Fresnel Lenses for Infrared Applications. Micro/Nano Technologies, 2018, ,<br>1-30.   | 0.1 | 1         |
| 92  | Nanometer-scale chip formation and surface integrity of pure titanium in diamond turning.<br>International Journal of Advanced Manufacturing Technology, 2018, 95, 479-492.                         | 1.5 | 11        |
| 93  | Investigation of Subsurface Damage Behaviors in Single-crystal Ge by Multi-cyclic Nanoindentation.<br>Procedia CIRP, 2018, 71, 244-248.   | 1.0 | 1         |
| 94  | Machining-Induced Subsurface Damage in Single-Crystal Silicon —Formation, Characterization, and Recovery—. Journal of the Japan Society for Precision Engineering, 2018, 84, 971-974.               | 0.0 | 0         |
| 95  | Micro-electrical Discharge Machining of Hard Brittle Materials. Toxinology, 2018, , 1-32.   | 0.2 | 1         |
| 96  | Surface Flattening and Nanostructuring of Steel by Picosecond Pulsed Laser Irradiation.<br>Nanomanufacturing and Metrology, 2018, 1, 217-224.   | 1.5 | 11        |
| 97  | Laser Patterning of Metallic Glass. Toxinology, 2018, , 1-29.   | 0.2 | 0         |
| 98  | Characterization of recrystallized depth and dopant distribution in laser recovery of grinding<br>damage in single-crystal silicon. Materials Science in Semiconductor Processing, 2018, 82, 54-61. | 1.9 | 5         |
| 99  | Experimental investigation of RB-SiC using Cu–CNF composite electrodes in electrical discharge machining. International Journal of Advanced Manufacturing Technology, 2018, 98, 3019-3028.          | 1.5 | 5         |
| 100 | Press Molding of Hybrid Fresnel Lenses for Infrared Applications. Micro/Nano Technologies, 2018, ,<br>1-30.   | 0.1 | 0         |
| 101 | Multi-scale dimple creation on metallic glass by a two-step method involving nanoindentation and polishing. Applied Surface Science, 2018, 462, 565-574.  | 3.1 | 14        |
| 102 | Noncontact on-machine measurement system based on capacitive displacement sensors for single-point diamond turning. Optical Engineering, 2018, 57, 1.   | 0.5 | 5         |
| 103 | Tool-Servo Driven Diamond Turning for Structured Surface. Micro/Nano Technologies, 2018, , 215-244.   | 0.1 | 0         |
| 104 | Press Molding of Hybrid Fresnel Lenses for Infrared Applications. Micro/Nano Technologies, 2018, ,<br>661-690.  | 0.1 | 0         |
| 105 | Micro-electrical Discharge Machining of Hard Brittle Materials. Micro/Nano Technologies, 2018, ,<br>775-806.  | 0.1 | 0         |
| 106 | Laser Patterning of Metallic Class. Micro/Nano Technologies, 2018, , 499-527.   | 0.1 | 0         |
| 107 | Mechanisms of micro-groove formation on single-crystal diamond by a nanosecond pulsed laser.<br>Journal of Materials Processing Technology, 2017, 243, 299-311.                                     | 3.1 | 29        |
| 108 | Ultraprecision surface flattening of porous silicon by diamond turning. Precision Engineering, 2017, 49, 262-277.   | 1.8 | 18        |

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|-----|---|-----|-----------|
| 109 | Improvement of glass formability in ultrasonic vibration assisted molding process. International<br>Journal of Precision Engineering and Manufacturing, 2017, 18, 57-62.  | 1.1 | 16        |
| 110 | Fabrication of single-crystal silicon micro pillars on copper foils by nanosecond pulsed laser irradiation. CIRP Annals - Manufacturing Technology, 2017, 66, 253-256.  | 1.7 | 12        |
| 111 | Mechanisms of material removal and subsurface damage in fixed-abrasive diamond wire slicing of single-crystalline silicon. Precision Engineering, 2017, 50, 32-43.  | 1.8 | 66        |
| 112 | On the phase transformation of single-crystal 4H–SiC during nanoindentation. Journal Physics D:<br>Applied Physics, 2017, 50, 265303.   | 1.3 | 40        |
| 113 | Thermochemical micro imprinting of single-crystal diamond surface using a nickel mold under high-pressure conditions. Applied Surface Science, 2017, 404, 318-325.  | 3.1 | 18        |
| 114 | Study on the crack resistance of CrBN composite coatings via nano-indentation and scratch tests.<br>Journal of Alloys and Compounds, 2017, 708, 1103-1109.  | 2.8 | 35        |
| 115 | Fundamental characteristics of material removal and surface formation in diamond turning of porous carbon. International Journal of Additive and Subtractive Materials Manufacturing, 2017, 1, 23.                  | 0.2 | 2         |
| 116 | A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. Science Advances, 2017, 3, e1603042.   | 4.7 | 68        |
| 117 | An investigation on the crack resistance of CrN, CrBN and CrTiBN coatings via nanoindentation.<br>Vacuum, 2017, 145, 186-193.   | 1.6 | 31        |
| 118 | Investigating shear band interaction in metallic glasses by adjacent nanoindentation. Materials<br>Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2017,<br>704, 375-385. | 2.6 | 21        |
| 119 | An overview of current status of cutting fluids and cooling techniques of turning hard steel.<br>International Journal of Heat and Mass Transfer, 2017, 114, 380-394.   | 2.5 | 116       |
| 120 | Surface patterning of Zr-based metallic glass by laser irradiation induced selective thermoplastic extrusion in nitrogen gas. Journal of Micromechanics and Microengineering, 2017, 27, 075007.                     | 1.5 | 41        |
| 121 | Micropatterning of diamond crystallites via cobalt-catalyzed thermochemical etching. Journal of<br>Materials Science, 2017, 52, 709-720.  | 1.7 | 19        |
| 122 | Atomic-scale characterization of subsurface damage and structural changes of single-crystal silicon carbide subjected to electrical discharge machining. Acta Materialia, 2017, 123, 362-372.                       | 3.8 | 45        |
| 123 | Improvement of form accuracy and surface integrity of Si-HDPE hybrid micro-lens arrays in press molding. Precision Engineering, 2017, 47, 469-479.  | 1.8 | 16        |
| 124 | Ductile machining of single-crystal silicon for microlens arrays by ultraprecision diamond turning using a slow tool servo. International Journal of Machine Tools and Manufacture, 2017, 115, 2-14.                | 6.2 | 134       |
| 125 | Fabrication of Microstructures on Single-crystal Diamond by Press Imprinting Utilizing Pure Iron<br>Molds. Journal of the Japan Society for Precision Engineering, 2017, 83, 770-774.                               | 0.0 | 0         |
| 126 | Design and fabrication of Si-HDPE hybrid Fresnel lenses for infrared imaging systems. Optics Express, 2017, 25, 1202.   | 1.7 | 24        |

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|-----|--|-----|-----------|
| 127 | Fabrication of Hexagonal Microlens Arrays on Single-Crystal Silicon Using the Tool-Servo Driven Segment Turning Method. Micromachines, 2017, 8, 323.   | 1.4 | 38        |
| 128 | Comparative Study of Phase Transformation in Single-Crystal Germanium during Single and Cyclic Nanoindentation. Crystals, 2017, 7, 333.  | 1.0 | 5         |
| 129 | Glass molding process for microstructures. , 2017, , 213-262.  |     | 3         |
| 130 | Laser Irradiation Responses of a Single-Crystal Diamond Produced by Different Crystal Growth<br>Methods. Applied Sciences (Switzerland), 2017, 7, 815.   | 1.3 | 13        |
| 131 | Ductile mode cutting of optical glass without silicon oxide composition. Proceedings of<br>International Conference on Leading Edge Manufacturing in 21st Century LEM21, 2017, 2017.9, 063.        | 0.0 | 0         |
| 132 | Fundamental characteristics of material removal and surface formation in diamond turning of porous carbon. International Journal of Additive and Subtractive Materials Manufacturing, 2017, 1, 23. | 0.2 | 2         |
| 133 | Volumetric and timescale analysis of phase transformation in single-crystal silicon during nanoindentation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.                     | 1.1 | 6         |
| 134 | Shield gas induced cracks during nanosecond-pulsed laser irradiation of Zr-based metallic glass.<br>Applied Physics A: Materials Science and Processing, 2016, 122, 1.                             | 1.1 | 15        |
| 135 | Surface Property Modification of Alumina Sprayed Coatings Using Nd:YAG Laser. Procedia CIRP, 2016, 42, 464-469.  | 1.0 | 9         |
| 136 | In situ characterization of formation and growth of high-pressure phases in single-crystal silicon<br>during nanoindentation. Applied Physics A: Materials Science and Processing, 2016, 122, 1.   | 1.1 | 1         |
| 137 | Effects of pre-compression deformation on nanoindentation response of Zr65Cu15Al10Ni10 bulk metallic glass. Journal of Alloys and Compounds, 2016, 674, 223-228.                                   | 2.8 | 24        |
| 138 | Surface patterning of synthetic diamond crystallites using nickel powder. Diamond and Related Materials, 2016, 66, 206-212.  | 1.8 | 23        |
| 139 | Laser Recovery of Subsurface Damages in Chemomechanically Polished Silicon Wafers. Key<br>Engineering Materials, 2016, 701, 97-100.  | 0.4 | 0         |
| 140 | Diamond turning of high-precision roll-to-roll imprinting molds for fabricating subwavelength gratings. Optical Engineering, 2016, 55, 064105.   | 0.5 | 13        |
| 141 | Fabrication of silicon-based porous nanocomposite films by focused infrared light sintering. CIRP<br>Annals - Manufacturing Technology, 2016, 65, 217-220.   | 1.7 | 5         |
| 142 | Nanosecond pulsed laser irradiation induced hierarchical micro/nanostructures on Zr-based metallic<br>glass substrate. Materials and Design, 2016, 109, 153-161.                                   | 3.3 | 43        |
| 143 | Crack-free ductile mode grinding of fused silica under controllable dry grinding conditions.<br>International Journal of Machine Tools and Manufacture, 2016, 109, 126-136.                        | 6.2 | 66        |
| 144 | Microstructural changes of Zr-based metallic glass during micro-electrical discharge machining and grinding by a sintered diamond tool. Journal of Alloys and Compounds, 2016, 688, 14-21.         | 2.8 | 35        |

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| 145 | Press molding of a Si–HDPE hybrid lens substrate and evaluation of its infrared optical properties.<br>Precision Engineering, 2016, 43, 429-438.   | 1.8 | 15        |
| 146 | Microstructure, mechanical and tribological properties of CrSiC coatings sliding against SiC and Al 2<br>O 3 balls in water. Applied Surface Science, 2016, 368, 129-139.  | 3.1 | 18        |
| 147 | Evaluating mechanical properties and crack resistance of CrN, CrTiN, CrAlN and CrTiAlN coatings by nanoindentation and scratch tests. Surface and Coatings Technology, 2016, 285, 203-213.   | 2.2 | 143       |
| 148 | Friction and wear properties of CrSiCN coatings with low carbon content as sliding against SiC and steel balls in water. Tribology International, 2016, 94, 176-186.   | 3.0 | 40        |
| 149 | Possibility for rapid generation of high-pressure phases in single-crystal silicon by fast nanoindentation. Semiconductor Science and Technology, 2015, 30, 115001.  | 1.0 | 4         |
| 150 | Laser sintering of silicon powder and carbon nanofibers for porous composite thick films. Applied Physics Express, 2015, 8, 026501.  | 1.1 | 11        |
| 151 | Experimental study of crystal anisotropy based on ultra-precision cylindrical turning of single-crystal calcium fluoride. Precision Engineering, 2015, 40, 172-181.  | 1.8 | 39        |
| 152 | New insights into phase transformations in single crystal silicon by controlled cyclic nanoindentation. Scripta Materialia, 2015, 102, 35-38.  | 2.6 | 30        |
| 153 | Influence of trimethylsilane flow on the microstructure, mechanical and tribological properties of CrSiCN coatings in water lubrication. Applied Surface Science, 2015, 355, 516-530.  | 3.1 | 40        |
| 154 | Sintered diamond as a hybrid EDM and grinding tool for the micromachining of single-crystal SiC.<br>CIRP Annals - Manufacturing Technology, 2015, 64, 221-224.   | 1.7 | 43        |
| 155 | Comparison of crack resistance between ternary CrSiC and quaternary CrSiCN coatings via<br>nanoindentation. Materials Science & Engineering A: Structural Materials: Properties,<br>Microstructure and Processing, 2015, 642, 391-397. | 2.6 | 18        |
| 156 | Evaluation of crack resistance of CrSiCN coatings as a function of Si concentration via nanoindentation. Surface and Coatings Technology, 2015, 272, 239-245.  | 2.2 | 26        |
| 157 | On the mechanism of secondary pop-out in cyclic nanoindentation of single-crystal silicon. Journal of<br>Materials Research, 2015, 30, 1861-1868.  | 1.2 | 16        |
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