

Three-dimensional printing of transparent fused silica g

Nature

544, 337-339

DOI: [10.1038/nature22061](https://doi.org/10.1038/nature22061)

Citation Report

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 3 | How to print glass. <i>Nature</i> , 2017, 544, 305-305. | 13.7 | 1 |
| 4 | Emerging microreaction systems based on 3D printing techniques and separation technologies. <i>Journal of Flow Chemistry</i> , 2017, 7, 72-81. | 1.2 | 26 |
| 5 | Additive direct-write microfabrication for MEMS: A review. <i>Frontiers of Mechanical Engineering</i> , 2017, 12, 490-509. | 2.5 | 36 |
| 6 | Using Printing Orientation for Tuning Fluidic Behavior in Microfluidic Chips Made by Fused Deposition Modeling 3D Printing. <i>Analytical Chemistry</i> , 2017, 89, 12805-12811. | 3.2 | 66 |
| 7 | 3D printing technologies for electrochemical energy storage. <i>Nano Energy</i> , 2017, 40, 418-431. | 8.2 | 351 |
| 8 | Ultralow-Temperature Solution-Processed Aluminum Oxide Dielectrics via Local Structure Control of Nanoclusters. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 35114-35124. | 4.0 | 44 |
| 9 | Nanolattices: An Emerging Class of Mechanical Metamaterials. <i>Advanced Materials</i> , 2017, 29, 1701850. | 11.1 | 356 |
| 10 | Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 12594-12598. | 7.2 | 72 |
| 11 | Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. <i>Angewandte Chemie</i> , 2017, 129, 12768-12772. | 1.6 | 50 |
| 12 | A storey of buildings and materials. <i>Nature Reviews Materials</i> , 2017, 2, . | 23.3 | 0 |
| 13 | Printing glass in 3D. <i>Physics Today</i> , 2017, 70, 24-24. | 0.3 | 1 |
| 14 | Cutting Edge of MEMS Research and Development in 2017. <i>Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan</i> , 2017, 68, 360-366. | 0.1 | 2 |
| 15 | Design of a Shaping System for Stereolithography with High Solid Loading Ceramic Suspensions. <i>3D Printing and Additive Manufacturing</i> , 2018, 5, 311-318. | 1.4 | 53 |
| 16 | Optical 3D printing: bridging the gaps in the mesoscale. <i>Journal of Optics (United Kingdom)</i> , 2018, 20, 053001. | 1.0 | 75 |
| 17 | Glassomerâ€”Processing Fused Silica Glass Like a Polymer. <i>Advanced Materials</i> , 2018, 30, e1707100. | 11.1 | 60 |
| 18 | Local Wettability Modification and its Micro-Fluidic System Application. <i>Toxinology</i> , 2018, , 1-33. | 0.2 | 0 |
| 19 | Additive Manufacturing Technologies: 3D Printing in Organic Synthesis. <i>ChemCatChem</i> , 2018, 10, 1512-1525. | 1.8 | 90 |
| 20 | Feasibility of Defect Tunable Bone Engineering Using Electroblown Bioactive Fibrous Scaffolds with Dental Stem Cells. <i>ACS Biomaterials Science and Engineering</i> , 2018, 4, 1019-1028. | 2.6 | 15 |

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 21 | Elastically-isotropic truss lattice materials of reduced plastic anisotropy. <i>International Journal of Solids and Structures</i> , 2018, 138, 24-39. | 1.3 | 128 |
| 22 | 3D printed microfluidics and microelectronics. <i>Microelectronic Engineering</i> , 2018, 189, 52-68. | 1.1 | 162 |
| 23 | 3D Printed Optical Quality Silica and Silica-Titania Glasses from Sol-Gel Feedstocks. <i>Advanced Materials Technologies</i> , 2018, 3, 1700323. | 3.0 | 74 |
| 24 | A highly efficient waterborne photoinitiator for visible-light-induced three-dimensional printing of hydrogels. <i>Chemical Communications</i> , 2018, 54, 920-923. | 2.2 | 77 |
| 25 | Towards Biofilm Spectroscopy – A Novel Microfluidic Approach for Characterizing Biofilm Subpopulation by Microwave-Based Electrical Impedance Spectroscopy. <i>Frequenz</i> , 2018, 72, 123-134. | 0.6 | 0 |
| 26 | High-Speed 3D Printing of Millimeter-Size Customized Aspheric Imaging Lenses with Sub 7 nm Surface Roughness. <i>Advanced Materials</i> , 2018, 30, e1705683. | 11.1 | 98 |
| 27 | Inverse-designed stretchable metalens with tunable focal distance. <i>Applied Physics Letters</i> , 2018, 112, . | 1.5 | 24 |
| 28 | Liquid PMMA: A High Resolution Polymethylmethacrylate Negative Photoresist as Enabling Material for Direct Printing of Microfluidic Chips. <i>Advanced Engineering Materials</i> , 2018, 20, 1700699. | 1.6 | 23 |
| 29 | Surface Plasmon Resonance: Material and Interface Design for Universal Accessibility. <i>Analytical Chemistry</i> , 2018, 90, 19-39. | 3.2 | 113 |
| 30 | Resolution improvement of 3D stereo-lithography through the direct laser trajectory programming: Application to microfluidic deterministic lateral displacement device. <i>Analytica Chimica Acta</i> , 2018, 1000, 239-247. | 2.6 | 37 |
| 31 | 3D printing in chemical engineering and catalytic technology: structured catalysts, mixers and reactors. <i>Chemical Society Reviews</i> , 2018, 47, 209-230. | 18.7 | 351 |
| 32 | Doppelringbiegeversuche an Glasplatten aus Kalk-Natron-Silikatglas bei erhöhten Temperaturen bis in den Transformationsbereich. <i>Ce/Papers</i> , 2018, 2, 185-198. | 0.1 | 0 |
| 33 | Printing Free-Form Free-Standing Glass Structures. , 2018, , . | | 2 |
| 34 | Rapid Prototyping for Photochemical Reaction Engineering. <i>Chemie-Ingenieur-Technik</i> , 2019, 91, 17-29. | 0.4 | 23 |
| 35 | Enhanced Mass Transfer and Improved Catalyst Recovery in a Stirred Reactor by Polymeric Ionic Liquids Modified 3D Printed Devices. <i>Advanced Materials Technologies</i> , 2019, 4, 1800515. | 3.0 | 12 |
| 36 | Additive manufacturing of glass: CO2-Laser glass deposition printing. <i>Procedia CIRP</i> , 2018, 74, 272-275. | 1.0 | 47 |
| 37 | Advances in Optical Sensing and Bioanalysis Enabled by 3D Printing. <i>ACS Sensors</i> , 2018, 3, 2475-2491. | 4.0 | 56 |
| 38 | 3D printing for chemical, pharmaceutical and biological applications. <i>Nature Reviews Chemistry</i> , 2018, 2, 422-436. | 13.8 | 210 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 39 | Additive Manufacturing of Transparent Glass Structures. 3D Printing and Additive Manufacturing, 2018, 5, 269-283. | 1.4 | 32 |
| 40 | Developing a method of fabricating microchannels using plant root structure. Japanese Journal of Applied Physics, 2018, 57, 06HJ07. | 0.8 | 2 |
| 41 | 3D Printing of Scaffolds for Tissue Engineering. , 0, , . | | 7 |
| 42 | Lunar In Situ Resource Utilisationâ€”The Key to Human Salvation on Earth. , 2018, , . | | 3 |
| 43 | Mechanically Guided Assembly of Monolithic Three-Dimensional Structures from Elastomer Composites. ACS Applied Materials & Interfaces, 2018, 10, 44716-44721. | 4.0 | 7 |
| 44 | Classâ€Channel Molding Assisted 3D Printing of Metallic Microstructures Enabled by Femtosecond Laser Internal Processing and Microfluidic Electroless Plating. Advanced Materials Technologies, 2018, 3, 1800372. | 3.0 | 16 |
| 45 | Microfluidic synthesis of silica microcomponents using sol-gel process and stop-flow lithography. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 103-108. | 2.7 | 7 |
| 46 | Optimal Design of Large Mode Area Photonic Crystal Fibers Using a Multiobjective Gray Wolf Optimization Technique. Journal of Lightwave Technology, 2018, 36, 5626-5632. | 2.7 | 15 |
| 47 | Recent Progress in Biomimetic Additive Manufacturing Technology: From Materials to Functional Structures. Advanced Materials, 2018, 30, e1706539. | 11.1 | 325 |
| 48 | Hybrid Materials for Functional 3D Printing. Advanced Materials Interfaces, 2018, 5, 1800996. | 1.9 | 42 |
| 49 | Photopolymer formulation to minimize feature size, surface roughness, and stair-stepping in digital light processing-based three-dimensional printing. Additive Manufacturing, 2018, 24, 627-638. | 1.7 | 64 |
| 50 | High-Efficiency High-Resolution Multimaterial Fabrication for Digital Light Processing-Based Three-Dimensional Printing. 3D Printing and Additive Manufacturing, 2018, 5, 185-193. | 1.4 | 106 |
| 51 | 3D printing of multicolor luminescent glass. RSC Advances, 2018, 8, 31564-31567. | 1.7 | 36 |
| 52 | Direct laser fabrication of meso-scale 2D and 3D architectures with micrometric feature resolution. Additive Manufacturing, 2018, 22, 440-446. | 1.7 | 21 |
| 53 | A Subtractive Photoresist Platform for Microâ€and Macroscopic 3D Printed Structures. Advanced Functional Materials, 2018, 28, 1801405. | 7.8 | 33 |
| 54 | 3D Printing of Hierarchical Porous Silica and Î±â€Quartz. Advanced Materials Technologies, 2018, 3, 1800060. | 3.0 | 27 |
| 55 | Optical 3D 1/4-printing of polytetrafluoroethylene (PTFE) microstructures. , 2018, , . | | 5 |
| 56 | 3D-printed miniaturized fluidic tools in chemistry and biology. TrAC - Trends in Analytical Chemistry, 2018, 106, 37-52. | 5.8 | 52 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 57 | Composition and source of white precipitations on the inner side of papyrus glazings. Restaurator, 2018, 39, 85-107. | 0.2 | 1 |
| 58 | Sensing and control in glass additive manufacturing. Mechatronics, 2018, 56, 188-197. | 2.0 | 16 |
| 59 | Fused glass deposition modelling for applications in the built environment. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 870-880. | 0.5 | 3 |
| 60 | 3D printed fiber optic faceplates by custom controlled fused deposition modeling. Optics Express, 2018, 26, 15362. | 1.7 | 27 |
| 61 | Predicting Nanoparticle Suspension Viscoelasticity for Multimaterial 3D Printing of Silica-Titania Glass. ACS Applied Nano Materials, 2018, 1, 4038-4044. | 2.4 | 39 |
| 62 | Highly Fluorinated Methacrylates for Optical 3D Printing of Microfluidic Devices. Micromachines, 2018, 9, 115. | 1.4 | 44 |
| 63 | 3D Shape Reconstruction of 3D Printed Transparent Microscopic Objects from Multiple Photographic Images Using Ultraviolet Illumination. Micromachines, 2018, 9, 261. | 1.4 | 3 |
| 64 | Engineering of Removing Sacrificial Materials in 3D-Printed Microfluidics. Micromachines, 2018, 9, 327. | 1.4 | 19 |
| 65 | Fused Deposition Modeling of ABS-Barium Titanate Composites: A Simple Route towards Tailored Dielectric Devices. Polymers, 2018, 10, 666. | 2.0 | 70 |
| 66 | Novel Materials for 3D Printing by Photopolymerization. Advanced Materials, 2018, 30, e1706344. | 11.1 | 367 |
| 67 | Topological Engineering of Photoluminescence Properties of Bismuth- or Erbium-Doped Phosphosilicate Glass of Arbitrary P ₂ O ₅ to SiO ₂ Ratio. Advanced Optical Materials, 2018, 6, 1800024. | 3.6 | 19 |
| 68 | Additive manufacturing of silica glass using laser stereolithography with a top-down approach and fast debinding. RSC Advances, 2018, 8, 16344-16348. | 1.7 | 44 |
| 69 | Additive Manufacturing of Transparent Silica Glass from Solutions. ACS Applied Materials & Interfaces, 2018, 10, 18879-18885. | 4.0 | 97 |
| 70 | Origami and 4D printing of elastomer-derived ceramic structures. Science Advances, 2018, 4, eaat0641. | 4.7 | 159 |
| 71 | Local Wettability Modification and its Micro-Fluidic System Application. Toxinology, 2018, , 1-33. | 0.2 | 0 |
| 72 | 3D-Printed Microfluidic Devices for Materials Science. Advanced Materials Technologies, 2018, 3, 1800068. | 3.0 | 33 |
| 73 | Demonstration of a terahertz pure vector beam by tailoring geometric phase. Scientific Reports, 2018, 8, 8690. | 1.6 | 14 |
| 74 | 3D-Printed Organic-Ceramic Complex Hybrid Structures with High Silica Content. Advanced Science, 2018, 5, 1800061. | 5.6 | 55 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 75 | Rapid Openâ€Air Digital Light 3D Printing of Thermoplastic Polymer. <i>Advanced Materials</i> , 2019, 31, e1903970. | 11.1 | 112 |
| 77 | Gravure printing for mesoporous film preparation. <i>RSC Advances</i> , 2019, 9, 23570-23578. | 1.7 | 18 |
| 78 | 3D Printing of All-Glass Fiber-Optic Pressure Sensor for High Temperature Applications. <i>IEEE Sensors Journal</i> , 2019, 19, 11242-11246. | 2.4 | 29 |
| 79 | Assembly of Topographical Micropatterns with Optoelectronic Tweezers. <i>Advanced Optical Materials</i> , 2019, 7, 1900669. | 3.6 | 14 |
| 80 | Fabrication of Porous Hydrogenation Catalysts by a Selective Laser Sintering 3D Printing Technique. <i>ACS Omega</i> , 2019, 4, 12012-12017. | 1.6 | 26 |
| 81 | Effect of Polymer Binder on the Synthesis and Properties of 3D-Printable Particle-Based Liquid Materials and Resulting Structures. <i>ACS Omega</i> , 2019, 4, 12088-12097. | 1.6 | 17 |
| 82 | CO ₂ Sensing Behavior of Calcium-Doped ZnO Thin Film: A Study To Address the Cross-Sensitivity of CO ₂ in H ₂ and CO Environment. <i>Langmuir</i> , 2019, 35, 10267-10275. | 1.6 | 27 |
| 83 | Hierarchical Cellular Structured Ceramic Nanofibrous Aerogels with Temperature-Invariant Superelasticity for Thermal Insulation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 29056-29064. | 4.0 | 118 |
| 84 | <i>110th Anniversary</i>: Vat Photopolymerization-Based Additive Manufacturing: Current Trends and Future Directions in Materials Design. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 15109-15118. | 1.8 | 80 |
| 85 | Mechanics of shape distortion of DLP 3D printed structures during UV post-curing. <i>Soft Matter</i> , 2019, 15, 6151-6159. | 1.2 | 94 |
| 86 | Porous alumina ceramic via gelcasting based on 2-hydroxyethyl methacrylate dissolved in tert-butyl alcohol. <i>Transactions of Nonferrous Metals Society of China</i> , 2019, 29, 1714-1720. | 1.7 | 5 |
| 87 | A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. <i>Angewandte Chemie</i> , 2019, 131, 18122-18131. | 1.6 | 169 |
| 88 | A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 17954-17963. | 7.2 | 161 |
| 89 | Rapid Multi-Material Direct Laser Writing. , 2019, , . | | 0 |
| 90 | Crack engineering for the construction of arbitrary hierarchical architectures. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 23909-23914. | 3.3 | 34 |
| 91 | Materials Characterization of Thin Films Printed with Ge ₂₀ Se ₈₀ Ink. <i>Microscopy and Microanalysis</i> , 2019, 25, 2606-2607. | 0.2 | 2 |
| 92 | Liquid Glass for Photovoltaics: Multifunctional Front Cover Glass for Solar Modules. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35015-35022. | 4.0 | 13 |
| 93 | Three-Dimensional Printing of Hierarchical Porous Architectures. <i>Chemistry of Materials</i> , 2019, 31, 10017-10022. | 3.2 | 18 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 94 | Ultrafast Three-Dimensional Printing of Optically Smooth Microlens Arrays by Oscillation-Assisted Digital Light Processing. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 40662-40668. | 4.0 | 62 |
| 95 | Biological and Engineered Topological Droplet Rectifiers. <i>Advanced Materials</i> , 2019, 31, e1806501. | 11.1 | 113 |
| 96 | Geometric Determinants of In-Situ Direct Laser Writing. <i>Scientific Reports</i> , 2019, 9, 394. | 1.6 | 43 |
| 97 | Laser Additive Manufacturing Processes for Near Net Shape Components. <i>Materials Forming, Machining and Tribology</i> , 2019, , 105-141. | 0.7 | 18 |
| 98 | Increasing the functionalities of 3D printed microchemical devices by single material, multimaterial, and print-pause-print 3D printing. <i>Lab on A Chip</i> , 2019, 19, 35-49. | 3.1 | 135 |
| 99 | 3D-printed ceramic structures with in situ grown whiskers for effective oil/water separation. <i>Chemical Engineering Journal</i> , 2019, 373, 1223-1232. | 6.6 | 52 |
| 100 | 3D Printing of Complex-type SiOC Ceramics Derived From Liquid Photosensitive Resin. <i>ChemistrySelect</i> , 2019, 4, 6862-6869. | 0.7 | 20 |
| 101 | Accurate printing of a zirconia molar crown bridge using three-part auxiliary supports and ceramic mask projection stereolithography. <i>Ceramics International</i> , 2019, 45, 18814-18822. | 2.3 | 45 |
| 102 | Programmable Mechanical Properties of Two-photon Polymerized Materials: From Nanowires to Bulk. <i>Advanced Materials Technologies</i> , 2019, 4, 1900146. | 3.0 | 65 |
| 103 | 3D-printed monolithic SiCN ceramic microreactors from a photocurable preceramic resin for the high temperature ammonia cracking process. <i>Reaction Chemistry and Engineering</i> , 2019, 4, 1393-1399. | 1.9 | 38 |
| 104 | Towards Digital Manufacturing of Smart Multimaterial Fibers. <i>Nanoscale Research Letters</i> , 2019, 14, 209. | 3.1 | 19 |
| 105 | Additive Manufacturing of 3D-Architected Multifunctional Metal Oxides. <i>Advanced Materials</i> , 2019, 31, e1901345. | 11.1 | 68 |
| 106 | Digital Manufacturing for Microfluidics. <i>Annual Review of Biomedical Engineering</i> , 2019, 21, 325-364. | 5.7 | 70 |
| 107 | A facile multi-material direct laser writing strategy. <i>Lab on A Chip</i> , 2019, 19, 2340-2345. | 3.1 | 52 |
| 108 | Additive Manufacturing of 3D Structures Composed of Wood Materials. <i>Advanced Materials Technologies</i> , 2019, 4, 1900158. | 3.0 | 32 |
| 109 | Bioprinting of freestanding vascular grafts and the regulatory considerations for additively manufactured vascular prostheses. <i>Translational Research</i> , 2019, 211, 123-138. | 2.2 | 19 |
| 110 | 3D printing of nerve conduits with nanoparticle-encapsulated RGFP966. <i>Applied Materials Today</i> , 2019, 16, 247-256. | 2.3 | 46 |
| 111 | Miniaturized and Automated Synthesis of Biomolecules—Overview and Perspectives. <i>Advanced Materials</i> , 2019, 31, 1806656. | 11.1 | 15 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 112 | The Exploitation of Polymer Based Nanocomposites for Additive Manufacturing: A Prospective Review. Applied Mechanics and Materials, 0, 890, 113-145. | 0.2 | 9 |
| 113 | A beam homogenizer for digital micromirror device lithography system based on random freeform microlenses. Optics Communications, 2019, 443, 211-215. | 1.0 | 15 |
| 114 | Structural Changes during Sintering of Al ₂ O ₃ 3D-Ceramics. Refractories and Industrial Ceramics, 2019, 59, 466-470. | 0.2 | 2 |
| 115 | Artificial Microbial Arenas: Materials for Observing and Manipulating Microbial Consortia. Advanced Materials, 2019, 31, 1900284. | 11.1 | 30 |
| 116 | Hierarchical Nanoporous Copper Architectures via 3D Printing Technique for Highly Efficient Catalysts. Small, 2019, 15, e1805432. | 5.2 | 31 |
| 117 | Chemical analysis using 3D printed glass microfluidics. Analytical Methods, 2019, 11, 1802-1810. | 1.3 | 48 |
| 118 | Additive manufacturing of glass with laser powder bed fusion. Journal of the American Ceramic Society, 2019, 102, 4410-4414. | 1.9 | 36 |
| 119 | Fabrication of arbitrary three-dimensional suspended hollow microstructures in transparent fused silica glass. Nature Communications, 2019, 10, 1439. | 5.8 | 76 |
| 120 | Architected Polymeric Materials Produced by Additive Manufacturing. Springer Series in Materials Science, 2019, , 257-285. | 0.4 | 3 |
| 121 | Rapid 3D printing of functional nanoparticle-enhanced conduits for effective nerve repair. Acta Biomaterialia, 2019, 90, 49-59. | 4.1 | 114 |
| 122 | Colloidal Materials for 3D Printing. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 17-42. | 3.3 | 47 |
| 123 | High-Performance Materials for 3D Printing in Chemical Synthesis Applications. Advanced Materials, 2019, 31, e1805982. | 11.1 | 82 |
| 124 | Dynamic Plasticity and Failure of Microscale Glass: Rate-Dependent Ductile-Brittle-Ductile Transition. Nano Letters, 2019, 19, 2350-2359. | 4.5 | 39 |
| 125 | The mechanical strength of Ti-6Al-4V columns with regular octet microstructure manufactured by electron beam melting. Materialia, 2019, 5, 100232. | 1.3 | 15 |
| 126 | Low Volume Imaging with Metasurfaces. , 2019, , . | | 0 |
| 127 | Fabrication of High Permittivity Resin Composite for Vat Photopolymerization 3D Printing: Morphology, Thermal, Dynamic Mechanical and Dielectric Properties. Materials, 2019, 12, 3818. | 1.3 | 33 |
| 128 | Photoresins based on acrylated epoxidized soybean oil and benzenedithiols for optical 3D printing. Rapid Prototyping Journal, 2019, 25, 378-387. | 1.6 | 13 |
| 129 | Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. Advanced Optical Materials, 2019, 7, 1800419. | 3.6 | 132 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 130 | Additive-manufacturing of 3D glass-ceramics down to nanoscale resolution. <i>Nanoscale Horizons</i> , 2019, 4, 647-651. | 4.1 | 97 |
| 131 | Advances in 4D Printing: Materials and Applications. <i>Advanced Functional Materials</i> , 2019, 29, 1805290. | 7.8 | 633 |
| 132 | Hyperporous carbon-coated 3D printed devices. <i>Applied Materials Today</i> , 2019, 14, 29-34. | 2.3 | 16 |
| 133 | Synthesis, structural, optical and solid state NMR study of lead bismuth titanate borosilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2019, 503-504, 288-296. | 1.5 | 20 |
| 134 | Alternative splicing of VEGFA is regulated by RBM10 in endometrial cancer. <i>Kaohsiung Journal of Medical Sciences</i> , 2020, 36, 13-19. | 0.8 | 16 |
| 135 | 3D printed optics with a soft and stretchable optical material. <i>Additive Manufacturing</i> , 2020, 31, 100912. | 1.7 | 16 |
| 136 | On the Fracture Behaviour and the Fracture Pattern Morphology of Tempered Soda-Lime Glass. <i>Mechanik, Werkstoffe Und Konstruktion Im Bauwesen</i> , 2020, , . | 0.1 | 5 |
| 137 | Achieving ultralow surface roughness and high material removal rate in fused silica via a novel acid SiO ₂ slurry and its chemical-mechanical polishing mechanism. <i>Applied Surface Science</i> , 2020, 500, 144041. | 3.1 | 28 |
| 138 | 3D and 4D printing of biomaterials and biocomposites, bioinspired composites, and related transformers. , 2020, , 467-504. | | 4 |
| 139 | Recent progress in 4D printing of stimuli-responsive polymeric materials. <i>Science China Technological Sciences</i> , 2020, 63, 532-544. | 2.0 | 61 |
| 140 | Plasma-digital nexus: plasma nanotechnology for the digital manufacturing age. <i>Reviews of Modern Plasma Physics</i> , 2020, 4, 1. | 2.2 | 16 |
| 141 | Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. <i>ACS Nano</i> , 2020, 14, 937-947. | 7.3 | 101 |
| 142 | Three-dimensional printing of multicomponent glasses using phase-separating resins. <i>Nature Materials</i> , 2020, 19, 212-217. | 13.3 | 172 |
| 143 | Digital light processing of 3Y-TZP strengthened ZrO ₂ ceramics. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2020, 774, 138768. | 2.6 | 82 |
| 144 | Designing with Light: Advanced 2D, 3D, and 4D Materials. <i>Advanced Materials</i> , 2020, 32, e1903850. | 11.1 | 125 |
| 145 | Miniaturization and 3D Printing of Bioreactors: A Technological Mini Review. <i>Micromachines</i> , 2020, 11, 853. | 1.4 | 6 |
| 146 | Disruptive Impact of Digitalisation on Optical Technologies. , 2020, , . | | 0 |
| 147 | 3D printed Er ³⁺ /Yb ³⁺ co-doped phosphosilicate glass based on sol-gel technology. <i>Journal of Non-Crystalline Solids</i> , 2020, 550, 120362. | 1.5 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 148 | Continuous synthesis of 2,5-hexanedione through direct C-C coupling of acetone in a Hilbert fractal photo microreactor. <i>Reaction Chemistry and Engineering</i> , 2020, 5, 2250-2259. | 1.9 | 5 |
| 149 | Multiphoton-Excited Deep-Ultraviolet Photolithography for 3D Nanofabrication. <i>ACS Applied Nano Materials</i> , 2020, 3, 11434-11441. | 2.4 | 16 |
| 150 | Macroscale Control of Reactivity using 3D Printed Materials with Intrinsic Catalytic Properties. <i>Applied Catalysis A: General</i> , 2020, 605, 117794. | 2.2 | 5 |
| 151 | Reliability analysis of a 3D Printing process. <i>Procedia Computer Science</i> , 2020, 173, 191-200. | 1.2 | 9 |
| 152 | Direct 3D-printing of phosphate glass by fused deposition modeling. <i>Materials and Design</i> , 2020, 194, 108957. | 3.3 | 31 |
| 153 | 3D printing of glass by additive manufacturing techniques: a review. <i>Frontiers of Optoelectronics</i> , 2021, 14, 263-277. | 1.9 | 52 |
| 154 | 3D printed gradient index glass optics. <i>Science Advances</i> , 2020, 6, . | 4.7 | 70 |
| 155 | From 3D to 4D printing: a reactor for photochemical experiments using hybrid polyurethane acrylates for vat-based polymerization and surface functionalization. <i>Chemical Communications</i> , 2020, 56, 15161-15164. | 2.2 | 14 |
| 156 | Self-Assembled Disulfide Bond Bearing Paclitaxel-Camptothecin Prodrug Nanoparticle for Lung Cancer Therapy. <i>Pharmaceutics</i> , 2020, 12, 1169. | 2.0 | 16 |
| 157 | 3D Printing of Ordered Mesoporous Silica Complex Structures. <i>Nano Letters</i> , 2020, 20, 6598-6605. | 4.5 | 30 |
| 158 | Towards additive manufacturing of dielectric accelerating structures. <i>Journal of Physics: Conference Series</i> , 2020, 1596, 012020. | 0.3 | 2 |
| 159 | Liquid Metal-Polymer Microlattice Metamaterials with High Fracture Toughness and Damage Recoverability. <i>Small</i> , 2020, 16, e2004190. | 5.2 | 32 |
| 160 | Nanographitic coating enables hydrophobicity in lightweight and strong microarchitected carbon. <i>Communications Materials</i> , 2020, 1, . | 2.9 | 10 |
| 161 | Selective H ₂ sensing using lanthanum doped zinc oxide thin film: A study of temperature dependence H ₂ sensing effect on carrier reversal activity. <i>Journal of Applied Physics</i> , 2020, 128, . | 1.1 | 9 |
| 162 | Photocurable Polymer Composition Based on Heat-Resistant Aromatic Polyamide for the Formation of Optical Elements by Two-Photon Polymerization. <i>Optics and Spectroscopy (English Translation of) Tj ETQq0 0 0 rg0L2/Overlook 10 Tf 00</i> | | |
| 163 | Porous cage-derived nanomaterial inks for direct and internal three-dimensional printing. <i>Nature Communications</i> , 2020, 11, 4695. | 5.8 | 18 |
| 164 | Continuous 3D printing from one single droplet. <i>Nature Communications</i> , 2020, 11, 4685. | 5.8 | 47 |
| 165 | Thermal Effects in Single-Point Curing Process for Pulsed Infrared Laser-Assisted 3D Printing of Optics. <i>3D Printing and Additive Manufacturing</i> , 2020, 7, 151-161. | 1.4 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 166 | Emerging Technologies and Materials for High-Resolution 3D Printing of Microfluidic Chips. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2020, , 1. | 0.6 | 9 |
| 167 | Luer-lock valve: A pre-fabricated pneumatic valve for 3D printed microfluidic automation. <i>Biomicrofluidics</i> , 2020, 14, 044115. | 1.2 | 4 |
| 168 | 2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , 2020, 11, 779. | 1.4 | 74 |
| 169 | Laser glass deposition of spheres for printing micro lenses. <i>Procedia CIRP</i> , 2020, 94, 276-280. | 1.0 | 11 |
| 170 | 3D Printing of a Polydimethylsiloxane/Polytetrafluoroethylene Composite Elastomer and its Application in a Triboelectric Nanogenerator. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57441-57449. | 4.0 | 55 |
| 171 | Preliminary Characterization of Glass/Alumina Composite Using Laser Powder Bed Fusion (L-PBF) Additive Manufacturing. <i>Materials</i> , 2020, 13, 2156. | 1.3 | 10 |
| 172 | 3D printing of zirconia via digital light processing: optimization of slurry and debinding process. <i>Journal of the European Ceramic Society</i> , 2020, 40, 5837-5844. | 2.8 | 79 |
| 173 | Direct Patterning of Metal Chalcogenide Semiconductor Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2002685. | 7.8 | 15 |
| 174 | Optical and EPR studies of zinc phosphate glasses containing Mn ²⁺ ions. <i>Journal of Materials Science</i> , 2020, 55, 9948-9961. | 1.7 | 7 |
| 175 | Polymer-derived SiOC ceramic lattice with thick struts prepared by digital light processing. <i>Additive Manufacturing</i> , 2020, 35, 101366. | 1.7 | 23 |
| 176 | A Bio-Based Resin for a Multi-Scale Optical 3D Printing. <i>Scientific Reports</i> , 2020, 10, 9758. | 1.6 | 47 |
| 177 | Bone-inspired healing of 3D-printed porous ceramics. <i>Materials Horizons</i> , 2020, 7, 2130-2140. | 6.4 | 4 |
| 178 | 2D and 3D printing for graphene based supercapacitors and batteries: A review. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00190. | 1.7 | 20 |
| 179 | Highly efficient phosphor-glass composites by pressureless sintering. <i>Nature Communications</i> , 2020, 11, 2805. | 5.8 | 129 |
| 180 | Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. <i>Scientific Reports</i> , 2020, 10, 9678. | 1.6 | 27 |
| 181 | A Material Combination Concept to Realize 4D Printed Products with Newly Emerging Property/Functionality. <i>Advanced Science</i> , 2020, 7, 1903208. | 5.6 | 41 |
| 182 | Glass 3D Printing of Microfluidic Pressure Sensor Interrogated by Fiber-Optic Refractometry. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 414-417. | 1.3 | 8 |
| 183 | 3D printing of conducting polymers. <i>Nature Communications</i> , 2020, 11, 1604. | 5.8 | 568 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 184 | Development of new nanocomposites for 3D printing applications. , 2020, , 17-59. | | 5 |
| 185 | Konstruktion für die Additive Fertigung 2019. , 2020, , . | | 13 |
| 186 | Hybrid (3D and inkjet) printed electromagnetic pressure sensor using metamaterial absorber. Additive Manufacturing, 2020, 35, 101405. | 1.7 | 18 |
| 187 | Toward optical fibre fabrication using 3D printing technology. Optical Fiber Technology, 2020, 58, 102299. | 1.4 | 51 |
| 188 | Preparation of 3D-printed (Cs/PLA/PU) scaffolds modified with plasma and hybridization by Fe@PEG-CA for treatment of cardiovascular disease. New Journal of Chemistry, 2020, 44, 12090-12098. | 1.4 | 9 |
| 189 | 3D and 4D printing for optics and metaphotonics. Nanophotonics, 2020, 9, 1139-1160. | 2.9 | 48 |
| 190 | From Silk Spinning to 3D Printing: Polymer Manufacturing using Directed Hierarchical Molecular Assembly. Advanced Healthcare Materials, 2020, 9, e1901552. | 3.9 | 53 |
| 191 | 3D printing of hydrogels: Rational design strategies and emerging biomedical applications. Materials Science and Engineering Reports, 2020, 140, 100543. | 14.8 | 494 |
| 192 | 3D Printing in analytical sample preparation. Journal of Separation Science, 2020, 43, 1854-1866. | 1.3 | 34 |
| 193 | 3D printing geopolymers nanocomposites: Graphene oxide size effects on a reactive matrix. Carbon, 2020, 164, 215-223. | 5.4 | 35 |
| 194 | Divide and print. Nature Materials, 2020, 19, 131-133. | 13.3 | 6 |
| 195 | China's complex material footprint. Nature Materials, 2020, 19, 133-133. | 13.3 | 3 |
| 196 | Additive Manufacturing of Optical Quality Germanium-Silica Glasses. ACS Applied Materials & Interfaces, 2020, 12, 6736-6741. | 4.0 | 39 |
| 197 | Freeform Microfluidic Networks Encapsulated in Laser-Printed 3D Macroscale Glass Objects. Advanced Materials Technologies, 2020, 5, 1900989. | 3.0 | 29 |
| 198 | Fused Silica with Embedded 2D-Like Ag Nanoparticle Monolayer: Tunable Saturable Absorbers by Interparticle Spacing Manipulation. Laser and Photonics Reviews, 2020, 14, 1900302. | 4.4 | 30 |
| 199 | 3D printing of polytetrafluoroethylene microstructures: A route to superhydrophobic surfaces and devices. Applied Materials Today, 2020, 19, 100580. | 2.3 | 29 |
| 200 | Adhesive bonding strategies to fabricate high-strength and transparent 3D printed microfluidic device. Biomicrofluidics, 2020, 14, 024113. | 1.2 | 18 |
| 201 | Highly Expandable Foam for Lithographic 3D Printing. ACS Applied Materials & Interfaces, 2020, 12, 19033-19043. | 4.0 | 23 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 202 | Direct Ink Writing Glass: A Preliminary Step for Optical Application. <i>Materials</i> , 2020, 13, 1636. | 1.3 | 16 |
| 203 | Metal-doped polymer-derived SiOC composites with inorganic metal salt as the metal source by digital light processing 3D printing. <i>Virtual and Physical Prototyping</i> , 2020, 15, 294-306. | 5.3 | 23 |
| 204 | Effects of slurry mixing methods and solid loading on 3D printed silica glass parts based on DLP stereolithography. <i>Ceramics International</i> , 2020, 46, 16833-16841. | 2.3 | 52 |
| 205 | Influence of powder characteristics on shrinkage behavior of 3D-Printed glass structures. <i>Ceramics International</i> , 2020, 46, 16827-16832. | 2.3 | 7 |
| 206 | <i>Additive Manufacturing</i> , 2021, , 203-221. | | 3 |
| 207 | Recyclable thermosetting polymers for digital light processing 3D printing. <i>Materials and Design</i> , 2021, 197, 109189. | 3.3 | 74 |
| 208 | Effects of fine grains and sintering additives on stereolithography additive manufactured Al ₂ O ₃ ceramic. <i>Ceramics International</i> , 2021, 47, 2303-2310. | 2.3 | 85 |
| 209 | 3D-printed controllable gradient pore superwetting structures for high temperature efficient oil-water separation. <i>Journal of Materiomics</i> , 2021, 7, 8-18. | 2.8 | 21 |
| 210 | Glass: The carrier of light—Part II—A brief look into the future of optical fiber. <i>International Journal of Applied Glass Science</i> , 2021, 12, 3-24. | 1.0 | 20 |
| 211 | 3D structuring of dense alumina ceramics using fiber-based stereolithography with interparticle photo-cross-linkable slurry. <i>Advanced Powder Technology</i> , 2021, 32, 72-79. | 2.0 | 12 |
| 212 | Improved mechanical properties of silica ceramic cores prepared by 3D printing and sintering processes. <i>Scripta Materialia</i> , 2021, 194, 113665. | 2.6 | 33 |
| 213 | Three-dimensional chemical reactors: <i>in situ</i> materials synthesis to advance vat photopolymerization. <i>Polymer International</i> , 2021, 70, 964-976. | 1.6 | 19 |
| 214 | Biocompatible, Flexible, and Oxygen-Permeable Silicone-Hydrogel Material for Stereolithographic Printing of Microfluidic Lab-On-A-Chip and Cell-Culture Devices. <i>ACS Applied Polymer Materials</i> , 2021, 3, 243-258. | 2.0 | 15 |
| 215 | New Promises and Opportunities in 3D Printable Inks Based on Coordination Compounds for the Creation of Objects with Multiple Applications. <i>Chemistry - A European Journal</i> , 2021, 27, 2887-2907. | 1.7 | 9 |
| 216 | Investigation of polymer materials properties to use for additive manufacturing. <i>Journal of Physics: Conference Series</i> , 2021, 1758, 012001. | 0.3 | 0 |
| 217 | Heterotelechelic poly(propylene oxide) as migration-inhibited toughening agent in hot lithography based additive manufacturing. <i>Polymer Chemistry</i> , 2021, 12, 1260-1272. | 1.9 | 4 |
| 218 | 3D printing of silica glass through a multiphoton polymerization process. <i>Optics Letters</i> , 2021, 46, 364. | 1.7 | 27 |
| 219 | <i>Introduction to 4D printing</i> , 2021, , 303-342. | | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 220 | Two-Photon Polymerization of Nanocomposites for the Fabrication of Transparent Fused Silica Glass Microstructures. <i>Advanced Materials</i> , 2021, 33, e2006341. | 11.1 | 103 |
| 221 | Direct Optical Lithography of Colloidal Metal Oxide Nanomaterials for Diffractive Optical Elements with 2 π Phase Control. <i>Journal of the American Chemical Society</i> , 2021, 143, 2372-2383. | 6.6 | 21 |
| 222 | Printed aerogels: chemistry, processing, and applications. <i>Chemical Society Reviews</i> , 2021, 50, 3842-3888. | 18.7 | 128 |
| 223 | Integration of segmented microflow chemistry and online HPLC/MS analysis on a microfluidic chip system enabling enantioselective analyses at the nanoliter scale. <i>Lab on A Chip</i> , 2021, 21, 2614-2624. | 3.1 | 23 |
| 224 | A 3D-printed <i>Arabidopsis thaliana</i> root imaging platform. <i>Lab on A Chip</i> , 2021, 21, 2557-2564. | 3.1 | 6 |
| 225 | Modellierung und Evaluation thermischer Effekte für die laserbasierte Additive Fertigung von funktionalen Glaswellenleitern. , 2021, , 119-140. | | 6 |
| 226 | Additive Materialextension von Glas und mineralischen Materialien. , 2021, , 183-200. | | 0 |
| 227 | Volumetric imaging efficiency: the fundamental limit to compactness of imaging systems. <i>Optics Express</i> , 2021, 29, 3173. | 1.7 | 2 |
| 228 | Transparent Glass Ceramics. <i>Crystals</i> , 2021, 11, 156. | 1.0 | 10 |
| 229 | Investigation on Chalcogenide Glass Additive Manufacturing for Shaping Mid-infrared Optical Components and Microstructured Optical Fibers. <i>Crystals</i> , 2021, 11, 228. | 1.0 | 12 |
| 230 | Three-Dimensional Visualization Algorithm Simulation of Construction Management Based on GIS and VR Technology. <i>Complexity</i> , 2021, 2021, 1-13. | 0.9 | 3 |
| 231 | 3D Printing in Fiber-Device Technology. <i>Advanced Fiber Materials</i> , 2021, 3, 59-75. | 7.9 | 43 |
| 232 | Rapid High-Resolution 3D Printing and Surface Functionalization via Type I Photoinitiated RAFT Polymerization. <i>Angewandte Chemie</i> , 2021, 133, 8921-8932. | 1.6 | 7 |
| 233 | Rapid High-Resolution 3D Printing and Surface Functionalization via Type I Photoinitiated RAFT Polymerization. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 8839-8850. | 7.2 | 92 |
| 235 | Fabrication of micro-optical connectors for electro-optical sensor devices by a combined femtosecond laser system. <i>Laser Physics Letters</i> , 2021, 18, 036201. | 0.6 | 3 |
| 236 | 3D Printing of Transparent Spinel Ceramics with Transmittance Approaching the Theoretical Limit. <i>Advanced Materials</i> , 2021, 33, e2007072. | 11.1 | 18 |
| 237 | Current challenges and potential directions towards precision microscale additive manufacturing – Part II: Laser-based curing, heating, and trapping processes. <i>Precision Engineering</i> , 2021, 68, 301-318. | 1.8 | 21 |
| 238 | Laser powder bed fusion of soda lime silica glass: Optimisation of processing parameters and evaluation of part properties. <i>Additive Manufacturing</i> , 2021, 39, 101880. | 1.7 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 240 | Three-Dimensional Printing of Self-Assembled Dipeptides. ACS Applied Materials & Interfaces, 2021, 13, 20573-20580. | 4.0 | 16 |
| 241 | Preshaping clear glass at low temperatures. Science, 2021, 372, 126-127. | 6.0 | 3 |
| 242 | Glass surface micromachining with simultaneous nanomaterial deposition by picosecond laser for wettability control. Applied Surface Science, 2021, 546, 149050. | 3.1 | 11 |
| 243 | Additive manufacturing of structural materials. Materials Science and Engineering Reports, 2021, 145, 100596. | 14.8 | 254 |
| 244 | High-resolution stereolithography using a static liquid constrained interface. Communications Materials, 2021, 2, . | 2.9 | 21 |
| 245 | Recent advances in 3D printing with protein-based inks. Progress in Polymer Science, 2021, 115, 101375. | 11.8 | 74 |
| 246 | Subsurface structural change of silica upon nanoscale physical contact: Chemical plasticity beyond topographic elasticity. Acta Materialia, 2021, 208, 116694. | 3.8 | 31 |
| 247 | A mixing microfluidic chip for real-time NMR monitoring of macromolecular reactions. Journal of Biochemistry, 2021, 170, 363-368. | 0.9 | 1 |
| 248 | High-throughput injection molding of transparent fused silica glass. Science, 2021, 372, 182-186. | 6.0 | 50 |
| 249 | 3D Manufacturing of Glass Microstructures Using Femtosecond Laser. Micromachines, 2021, 12, 499. | 1.4 | 33 |
| 250 | Additive manufacturing of embedded carbon nanocomposite structures with multi-material digital light processing (MMDLP). Journal of Materials Research, 0, , 1. | 1.2 | 3 |
| 251 | Fabrication of Microfluidic Devices for Emulsion Formation by Microstereolithography. Molecules, 2021, 26, 2817. | 1.7 | 9 |
| 252 | A review on the rheological behavior and formulations of ceramic suspensions for vat photopolymerization. Ceramics International, 2021, 47, 11906-11921. | 2.3 | 86 |
| 253 | On the Post-Processing of 3D-Printed ABS Parts. Polymers, 2021, 13, 1559. | 2.0 | 27 |
| 254 | Design of Photo- and Heat-Responsive Concentrated Slurry and Applications Toward Three Dimensional Structuring of Ceramic Materials. Journal of the Japan Society of Colour Material, 2021, 94, 119-123. | 0.0 | 0 |
| 255 | Printable PICN Composite Mechanically Compatible with Human Teeth. Journal of Dental Research, 2021, 100, 1475-1481. | 2.5 | 7 |
| 256 | Embracing Additive Manufacturing Technology through Fused Filament Fabrication for Antimicrobial with Enhanced Formulated Materials. Polymers, 2021, 13, 1523. | 2.0 | 25 |
| 257 | Efficient 3D printing via photooxidation of ketocoumarin based photopolymerization. Nature Communications, 2021, 12, 2873. | 5.8 | 41 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 258 | Process Development for Additive Manufacturing of Alumina Toughened Zirconia for 3D Structures by Means of Two-Photon Absorption Technique. <i>Ceramics</i> , 2021, 4, 224-239. | 1.0 | 2 |
| 259 | What Is Driving the Growth of Inorganic Glass in Smart Materials and Opto-Electronic Devices?. <i>Materials</i> , 2021, 14, 2926. | 1.3 | 4 |
| 260 | Photocuring Three-Dimensional Printing of Thermoplastic Polymers Enabled by Hydrogen Bonds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22946-22954. | 4.0 | 24 |
| 261 | Cellular fluidics. <i>Nature</i> , 2021, 595, 58-65. | 13.7 | 106 |
| 262 | Smooth or not: Robust fused silica micro-components by femtosecond-laser-assisted etching. <i>Materials and Design</i> , 2021, 204, 109670. | 3.3 | 18 |
| 263 | Enhanced near-infrared absorption for laser powder bed fusion using reduced graphene oxide. <i>Applied Materials Today</i> , 2021, 23, 101009. | 2.3 | 4 |
| 264 | Three-dimensional printing of glass micro-optics. <i>Optica</i> , 2021, 8, 904. | 4.8 | 35 |
| 265 | Leveraging 3D printing to enhance mass spectrometry: A review. <i>Analytica Chimica Acta</i> , 2021, 1166, 338332. | 2.6 | 17 |
| 266 | Tilting separation simulation and theory verification of mask projection stereolithography process. <i>Rapid Prototyping Journal</i> , 2021, 27, 851-860. | 1.6 | 3 |
| 267 | Transparent origami glass. <i>Nature Communications</i> , 2021, 12, 4261. | 5.8 | 24 |
| 268 | Optimization of selective laser etching (SLE) for glass micromechanical structure fabrication. <i>Optics Express</i> , 2021, 29, 23487. | 1.7 | 37 |
| 269 | Introduction of Chalcogenide Glasses to Additive Manufacturing: Nanoparticle Ink Formulation, Inkjet Printing, and Phase Change Devices Fabrication. <i>Scientific Reports</i> , 2021, 11, 14311. | 1.6 | 12 |
| 270 | Vat-Photopolymerization-Based Ceramic Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4819-4836. | 1.2 | 12 |
| 271 | Obtaining transparent silica glass from nano-silica hydrosol. <i>Ceramics International</i> , 2021, 47, 19340-19345. | 2.3 | 6 |
| 272 | Facile Surface Functionalization Strategy for Two-Photon Lithography Microstructures. <i>Small</i> , 2021, 17, e2101048. | 5.2 | 6 |
| 273 | Glass based micro total analysis systems: Materials, fabrication methods, and applications. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129859. | 4.0 | 49 |
| 274 | Direct laser heating of the filament/substrate interface in digital glass forming. <i>Manufacturing Letters</i> , 2022, 31, 106-109. | 1.1 | 3 |
| 275 | Rapid manufacturing of silica glass parts with complex structures through stereolithography and pressureless spark plasma sintering. <i>Ceramics International</i> , 2022, 48, 55-63. | 2.3 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 276 | Research on parameters of micro-optical elements on quartz surface by femtosecond laser processing. , 2021, , . | | 0 |
| 277 | Fused-silica 3D Chiral Metamaterials via Helium-Assisted Microcasting Supporting Topologically Protected Twist Edge Resonances with High Mechanical Quality Factors. <i>Advanced Materials</i> , 2021, 33, 2103205. | 11.1 | 7 |
| 278 | Laser cladding of transparent fused silica glass using sub-µm powder. <i>Optical Materials Express</i> , 2021, 11, 3056. | 1.6 | 10 |
| 279 | Up-Cycling of LCD Glass by Additive Manufacturing of Porous Translucent Glass Scaffolds. <i>Materials</i> , 2021, 14, 5083. | 1.3 | 9 |
| 280 | Tensile ductility and necking in consolidated amorphous alumina. <i>Journal of the American Ceramic Society</i> , 2022, 105, 958-965. | 1.9 | 3 |
| 281 | Printability during projection-based 3D bioprinting. <i>Bioactive Materials</i> , 2022, 11, 254-267. | 8.6 | 28 |
| 282 | In-volume Laser Direct Writing of Silicon-Challenges and Opportunities. <i>Laser and Photonics Reviews</i> , 2021, 15, 2100140. | 4.4 | 38 |
| 283 | Influence of Al ₂ O ₃ content on mechanical properties of silica-based ceramic cores prepared by stereolithography. <i>Journal of Advanced Ceramics</i> , 2021, 10, 1381-1388. | 8.9 | 31 |
| 284 | Digital light processing of complex-shaped 3D-zircon (ZrSiO ₄) ceramic components from a photocurable polysiloxane/ZrO ₂ slurry. <i>Ceramics International</i> , 2021, 47, 32905-32914. | 2.3 | 9 |
| 285 | 3D Printing and Pyrolysis of Optical ZrO ₂ Nanostructures by Two-Photon Lithography: Reduced Shrinkage and Crystallization Mediated by Nanoparticles Seeds. <i>Small</i> , 2021, 17, e2102486. | 5.2 | 13 |
| 286 | 3D printing of carbon-based materials: A review. <i>Carbon</i> , 2021, 183, 449-485. | 5.4 | 53 |
| 287 | Digital light processing of Si-based composite ceramics and bulk silica ceramics from a high solid loading polysiloxane/SiO ₂ slurry. <i>Journal of the European Ceramic Society</i> , 2021, 41, 7189-7198. | 2.8 | 13 |
| 288 | H-bonds and metal-ligand coordination-enabled manufacture of palm oil-based thermoplastic elastomers by photocuring 3D printing. <i>Additive Manufacturing</i> , 2021, 47, 102268. | 1.7 | 7 |
| 289 | Unit cell estimation of volumetrically-varying permittivity in additively-manufactured ceramic lattices with X-ray computed tomography. <i>Materials and Design</i> , 2021, 210, 110032. | 3.3 | 7 |
| 290 | A systematic study of vat-polymerization binders with potential use in the ceramic suspension 3D printing. <i>Additive Manufacturing</i> , 2021, 47, 102225. | 1.7 | 6 |
| 291 | Fabrication of Yb-doped silica micro-structured optical fibers from UV-curable nano-composites and their application in temperature sensing. <i>Journal of Non-Crystalline Solids</i> , 2021, 573, 121129. | 1.5 | 15 |
| 292 | Boost of photodegradation performances by adoption of semi-transparent open cell foam substrates via numerical simulation. <i>Chemical Engineering Journal</i> , 2022, 427, 130920. | 6.6 | 1 |
| 293 | Direct printing of functional 3D objects using polymerization-induced phase separation. <i>Nature Communications</i> , 2021, 12, 55. | 5.8 | 38 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 294 | Additive Manufacturing of Metal Micro-ring and Tube by Laser-Assisted Electrophoretic Deposition with Laguerreâ€“Gaussian Beam. <i>Nanomanufacturing and Metrology</i> , 0, , 1. | 1.5 | 4 |
| 295 | Interfacial jamming reinforced Pickering emulgel for arbitrary architected nanocomposite with connected nanomaterial matrix. <i>Nature Communications</i> , 2021, 12, 111. | 5.8 | 24 |
| 296 | Direct ink writing of recyclable and <i>in situ</i> repairable photothermal polyurethane for sustainable 3D printing development. <i>Journal of Materials Chemistry A</i> , 2021, 9, 6981-6992. | 5.2 | 23 |
| 297 | Bright Green Emitting CaYAlO ₄ :Tb ³⁺ ,Ce ³⁺ Phosphor: Energy Transfer and 3Dâ€“Printing Artwork. <i>Advanced Optical Materials</i> , 2020, 8, 2000523. | 3.6 | 26 |
| 298 | 3D Silica Lithography for Future Optical Fiber Fabrication. , 2019, , 637-653. | | 8 |
| 299 | Inkjet printing, laser-based micromachining, and microâ€“3D printing technologies for MEMS. , 2020, , 531-545. | | 6 |
| 300 | Development of silica based organic slurries for stereolithographic printing process. <i>Journal of the European Ceramic Society</i> , 2020, 40, 4556-4561. | 2.8 | 9 |
| 301 | Rapid three-dimensional structuring of transparent SiO ₂ glass using interparticle photo-cross-linkable suspensions. <i>Communications Materials</i> , 2020, 1, . | 2.9 | 32 |
| 302 | Widely accessible 3D printing technologies in chemistry, biochemistry and pharmaceuticals: applications, materials and prospects. <i>Russian Chemical Reviews</i> , 2020, 89, 1507-1561. | 2.5 | 32 |
| 303 | Pixel-based open-space microfluidics for versatile surface processing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, . | 3.3 | 13 |
| 304 | Multi-sensor optical profilometer for measurement of large freeforms at nm-level uncertainty. <i>Surface Topography: Metrology and Properties</i> , 2020, 8, 045030. | 0.9 | 2 |
| 305 | Additive manufacturing of transparent fused quartz. <i>Optical Engineering</i> , 2018, 57, 1. | 0.5 | 18 |
| 306 | Fabrication of 3D glass-ceramic micro- /nano-structures by direct laser writing lithography and pyrolysis. , 2018, , . | | 2 |
| 307 | Femtosecond laser-assisted etching: making arbitrary shaped 3D glass micro-structures. , 2018, , . | | 1 |
| 308 | Additive manufacturing of microfluidic glass chips. , 2018, , . | | 6 |
| 309 | 3D-printed optical instrumentation: practical starter designs and initial experiences. , 2018, , . | | 2 |
| 310 | Next-generation 3D printing of glass: the emergence of enabling materials. , 2018, , . | | 3 |
| 311 | Sacrificial template replication: fabrication of arbitrary embedded microfluidic channels in transparent fused silica glass. , 2020, , . | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 312 | Generation of multi-level microstructures using a wavelength-selective photoresist and mask-less grayscale lithography. , 2020, , . | | 2 |
| 313 | Facile integration of electronics in glass microfluidic devices for electrochemical synthesis and analysis. , 2020, , . | | 3 |
| 314 | Bioinspired Ultra-Low Adhesive Energy Interface for Continuous 3D Printing: Reducing Curing Induced Adhesion. Research, 2018, 2018, 4795604. | 2.8 | 49 |
| 315 | 3D printing, photonics and the IoT. , 2018, , . | | 3 |
| 316 | 3D printed glass preforms for optical fibers with nonequilibrium cross-sections. , 2020, , . | | 4 |
| 317 | Silica optical fiber drawn from 3D printed preforms. Optics Letters, 2019, 44, 5358. | 1.7 | 64 |
| 318 | Mid-infrared hollow core fiber drawn from a 3D printed chalcogenide glass preform. Optical Materials Express, 2021, 11, 198. | 1.6 | 37 |
| 319 | 3D-printing of arsenic sulfide chalcogenide glasses. Optical Materials Express, 2019, 9, 2307. | 1.6 | 34 |
| 320 | The Al ₂ O ₃ -3D-ceramics' structure changing when sintering. Novye Ogneupory (new Refractories), 2018, , 35-39. | 0.1 | 1 |
| 321 | Digital Light Processing Based Three-dimensional Printing for Medical Applications. International Journal of Bioprinting, 2019, 6, 242. | 1.7 | 138 |
| 322 | Structure-Enhanced Mechanically Robust Graphite Foam with Ultrahigh MnO ₂ Loading for Supercapacitors. Research, 2020, 2020, 7304767. | 2.8 | 24 |
| 323 | Silica Optical Fibres based on 3D Printing Technologies. , 2021, , . | | 1 |
| 324 | Herstellung individueller Strukturen aus silikatischen Werkstoffen mittels Wireâ€aser Additive Manufacturing. Ce/Papers, 2021, 4, 181-191. | 0.1 | 0 |
| 325 | Meltâ€Extrusionâ€Based Additive Manufacturing of Transparent Fused Silica Glass. Advanced Science, 2021, 8, e2103180. | 5.6 | 14 |
| 326 | Printing glass in the nano. Nature Materials, 2021, 20, 1454-1456. | 13.3 | 2 |
| 327 | 3D-printed silica with nanoscale resolution. Nature Materials, 2021, 20, 1506-1511. | 13.3 | 93 |
| 328 | Accelerated discovery of 3D printing materials using data-driven multiobjective optimization. Science Advances, 2021, 7, eabf7435. | 4.7 | 56 |
| 329 | 3D Printing of Customized Aspheric Lenses for Imaging. Polymers, 2021, 13, 3477. | 2.0 | 3 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 330 | Tapered depressed-cladding waveguide lasers modulated by Ag nanoparticles embedded in SiO ₂ . Results in Physics, 2021, 30, 104897. | 2.0 | 3 |
| 331 | Laser Modification of Wettability of Glass Surface and its Application for Surface Flow Channel. The Review of Laser Engineering, 2017, 45, 637. | 0.0 | 0 |
| 332 | Conclusions and Future Prospects. Springer Theses, 2018, , 105-107. | 0.0 | 0 |
| 333 | Local Wettability Modification and Its Micro-Fluidic System Application. Micro/Nano Technologies, 2018, , 925-957. | 0.1 | 0 |
| 334 | 3D printing of optical materials: an investigation of the microscopic properties. , 2018, , . | | 0 |
| 335 | Structuring unbreakable hydrophobic barriers in paper. , 2018, , . | | 0 |
| 336 | Preliminary Study of Printing Optical-Based Materials using Aerosol Jet Deposition Process. International Journal of Current Engineering and Technology, 2018, 8, . | 0.0 | 0 |
| 337 | 3D opto-structuring of ceramics at nanoscale. , 2018, , . | | 3 |
| 338 | Processing and Perspective of Multifunctional Composite Materials. Seikei-Kakou, 2018, 30, 321-325. | 0.0 | 0 |
| 339 | Glass Printing for Optics and Photonics Applications using a Filament-Fed Laser-Heated Process. , 2019, , . | | 0 |
| 340 | 3D Silica Lithography for Future Optical Fiber Fabrication. , 2019, , 1-17. | | 1 |
| 341 | Towards New Production Technologies: 3D Printing of Scintillators. Springer Proceedings in Physics, 2019, , 99-112. | 0.1 | 1 |
| 342 | Additive Manufacturing of Fused Silica Glass Using Direct Laser Melting. , 2019, , . | | 6 |
| 343 | High-throughput thermal replication of transparent fused silica glass. , 2019, , . | | 1 |
| 344 | Direct write of photonics using a filament-fed laser-heated process. , 2019, , . | | 2 |
| 345 | Materialcharakterisierung transparenter Kunststoffe für die Additive Fertigung. , 2020, , 193-207. | | 0 |
| 346 | 3D Printed Silica Optical Fibre - a "Game Changer" Technology in Optical Fibre Manufacture. , 2020, , . | | 1 |
| 347 | Vat-Photopolymerization-Based Ceramic Manufacturing. , 2020, , 81-96. | | 1 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 348 | Scalable visible light 3D printing and bioprinting using an organic light-emitting diode microdisplay. IScience, 2021, 24, 103372. | 1.9 | 12 |
| 349 | Suppressing the Step Effect of 3D Printing for Constructing Contact Lenses. Advanced Materials, 2022, 34, e2107249. | 11.1 | 23 |
| 350 | Longitudinal phase space synthesis with tailored 3D-printable dielectric-lined waveguides. Physical Review Accelerators and Beams, 2020, 23, . | 0.6 | 9 |
| 351 | Evaluation of advanced methods and materials for construction of scintillation detector light guides. Applied Radiation and Isotopes, 2022, 179, 109979. | 0.7 | 0 |
| 352 | The three-component photoinitiating systems based on flavonol sulfonate and application in 3D printing. Dyes and Pigments, 2022, 197, 109899. | 2.0 | 4 |
| 353 | Entwicklung von Laser-Systemkomponenten für das koaxiale Laser-Draht-Auftragschweißen von Metall- und Glaswerkstoffen. , 2020, , 245-260. | | 7 |
| 354 | 3D Printed, Solid-State Conductive Ionoelelastomer as a Generic Building Block for Tactile Applications. Advanced Materials, 2022, 34, e2105996. | 11.1 | 54 |
| 355 | 3D Printing of Transparent Glasses. Springer Series in Optical Sciences, 2021, , 169-184. | 0.5 | 0 |
| 356 | Hybrid Polymers for Conventional and Additive Manufacturing of Microoptical Elements. Springer Series in Optical Sciences, 2021, , 263-297. | 0.5 | 3 |
| 357 | Fabrication of nanoporous silica rods from curable nanocomposites and their application in Yb-doped fiber lasers. Journal of Non-Crystalline Solids, 2022, 576, 121236. | 1.5 | 0 |
| 358 | Material loss analysis in glass additive manufacturing by laser glass deposition. Journal of Laser Applications, 2021, 33, . | 0.8 | 5 |
| 359 | Overview of 3D-Printed Silica Glass. Micromachines, 2022, 13, 81. | 1.4 | 19 |
| 360 | 3D Dip-Pen Nanolithography. Advanced Materials Technologies, 2022, 7, 2101493. | 3.0 | 11 |
| 361 | Recent advances in 3D printing for catalytic applications. Chemical Engineering Journal, 2022, 433, 134341. | 6.6 | 70 |
| 362 | 3D optical components made by additive manufacturing for casting complex patterns of light. , 2021, , . | | 0 |
| 363 | The Rheological Behaviors and Overcuring Effect of Fiber-Reinforced Polyamine-Coated Silica Paste and the Mechanical Properties of the Composites via Stereolithography. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 364 | Comprehensive Study on Materials used in Different Types of Additive Manufacturing and their Applications. International Journal of Mathematical, Engineering and Management Sciences, 2022, 7, 92-114. | 0.4 | 7 |
| 365 | Additive manufacturing of borosilicate glass via stereolithography. Ceramics International, 2022, 48, 12721-12728. | 2.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 366 | 3D printing. , 2022, , 1021-1043. | | 0 |
| 367 | Annealing Effects on Optical Losses in 3D-Printed Silica Fiber. IEEE Photonics Technology Letters, 2022, 34, 199-202. | 1.3 | 5 |
| 368 | Recent advances in the stereolithographic three-dimensional printing of ceramic cores: Challenges and prospects. Journal of Materials Science and Technology, 2022, 117, 79-98. | 5.6 | 29 |
| 369 | 3D Printing and Shaping Polymers, Composites, and Nanocomposites: A Review. Polymers, 2022, 14, 180. | 2.0 | 60 |
| 370 | Amplified Spontaneous Emission from Perovskite Quantum Dots Inside a Transparent Glass. Advanced Optical Materials, 2022, 10, . | 3.6 | 13 |
| 371 | Embedding Quality in Extrusion-Based Additive Manufacturing Technologies. Journal of Materials Engineering and Performance, 2022, 31, 5100-5117. | 1.2 | 1 |
| 372 | Mechanical performance of polyhedral hollow glass units under compression. Engineering Structures, 2022, 254, 113730. | 2.6 | 1 |
| 373 | Recent advancements and applications in 3D printing of functional optics. Additive Manufacturing, 2022, 52, 102682. | 1.7 | 33 |
| 374 | Quill-free additive manufacturing of fused silica glass. Optical Materials Express, 2022, 12, 1480. | 1.6 | 8 |
| 375 | Single Copolymer Chain-templated Synthesis of Ultrasmall Symmetric and Asymmetric Silica-Based Nanoparticles. Advanced Functional Materials, 2022, 32, . | 7.8 | 10 |
| 376 | Digital Light Processing 3D Printing of Enhanced Polymers via Interlayer Welding. Macromolecular Rapid Communications, 2022, 43, e2200053. | 2.0 | 10 |
| 377 | Advancing the Mechanical Performance of Glasses: Perspectives and Challenges. Advanced Materials, 2022, 34, e2109029. | 11.1 | 50 |
| 378 | Additive Manufacturing Fiber Preforms for Structured Silica Fibers with Bismuth and Erbium Dopants. Light Advanced Manufacturing, 2022, 3, 1. | 2.2 | 3 |
| 379 | Additive Manufacturing with Borosilicate Glass and Soda-Lime Glass. Proceedings in Engineering Mechanics, 2022, , 151-164. | 0.3 | 0 |
| 380 | Hygrothermal and Microstructural Investigation of PLA and PLA-Flax Printed Structures. Fibers, 2022, 10, 24. | 1.8 | 2 |
| 381 | High-throughput manufacturing of transparent fused silica glass by injection molding and extrusion. , 2022, , . | | 1 |
| 382 | Free-Form Micro-Optics Out of Crystals: Femtosecond Laser 3D Sculpturing. Advanced Functional Materials, 2022, 32, . | 7.8 | 19 |
| 383 | 30 inorganic features achieved by multi-photon 3D lithography. Nature Communications, 2022, 13, 1357. | 5.8 | 32 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 384 | Additive manufacturing for the development of optical/photonic systems and components. <i>Optica</i> , 2022, 9, 623. | 4.8 | 15 |
| 385 | Temperature-dependent dynamic plasticity of micro-scale fused silica. <i>Materials and Design</i> , 2022, 215, 110503. | 3.3 | 7 |
| 386 | 3D printing of optical materials by processes based on photopolymerization: materials, technologies, and recent advances. <i>Photonics Research</i> , 2022, 10, 1344. | 3.4 | 13 |
| 387 | Rapid Pressureless Sintering of Glasses. <i>Small</i> , 2022, 18, e2107951. | 5.2 | 20 |
| 388 | Rapid Manufacturing of Complex-Structured Transparent Silica Glass Materials through a Hybridized Approach of Photo-Curing and Machining from Interparticle Photo-Cross-Linkable Suspensions. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 16445-16452. | 4.0 | 4 |
| 389 | Submicron imprint patterning of compound sheet with ceramic nanopowder. <i>Japanese Journal of Applied Physics</i> , 2022, 61, SD1011. | 0.8 | 0 |
| 390 | Direct sound printing. <i>Nature Communications</i> , 2022, 13, 1800. | 5.8 | 26 |
| 391 | Effects of suspension processing conditions on the multi-scale structural changes of photocured SiO ₂ bodies during sintering process: An operando observation using optical coherence tomography. <i>Advanced Powder Technology</i> , 2022, 33, 103533. | 2.0 | 2 |
| 392 | The fabrication of fiber-reinforced polyamine-coated silica paste and the mechanical properties of SiO ₂ /SiO ₂ composites via stereolithography combined with silica sol impregnation. <i>Additive Manufacturing</i> , 2022, 53, 102714. | 1.7 | 0 |
| 393 | Hybrid additive manufacturing for the fabrication of freeform transparent silica glass components. <i>Additive Manufacturing</i> , 2022, 54, 102727. | 1.7 | 12 |
| 394 | A review of 3D printed porous ceramics. <i>Journal of the European Ceramic Society</i> , 2022, 42, 3351-3373. | 2.8 | 81 |
| 395 | Present state of 3D printing from glass. <i>Pure and Applied Chemistry</i> , 2022, 94, 169-179. | 0.9 | 1 |
| 396 | Silica optical fibre fabrication via 3D printing technology: material processing and related issues. <i>European Physical Journal: Special Topics</i> , 2022, 231, 631-642. | 1.2 | 4 |
| 397 | An On-Chip Liquid Metal Plug Generator. <i>Advanced Materials</i> , 2022, 34, e2201469. | 11.1 | 10 |
| 398 | Volumetric additive manufacturing of silica glass with microscale computed axial lithography. <i>Science</i> , 2022, 376, 308-312. | 6.0 | 94 |
| 399 | A Preparation Technology of Micro-structure Glass Based on Nano Powders. <i>Journal of Micromechanics and Microengineering</i> , 0, , . | 1.5 | 0 |
| 400 | High-Precision Printing of Complex Glass Imaging Optics with Precondensed Liquid Silica Resin. <i>Advanced Science</i> , 2022, 9, e2105595. | 5.6 | 16 |
| 401 | A Polystyrene Photoresin for Direct Lithography of Microfluidic Chips. <i>Advanced Materials Technologies</i> , 2022, 7, . | 3.0 | 2 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 402 | Silica-Encapsulated Germania Colloids as 3D-Printable Glass Precursors. ACS Omega, 2022, 7, 17492-17500. | 1.6 | 5 |
| 403 | High-strength and corrosion-resistant Fe/Al ₂ SiO ₅ soft magnetic composites fabricated by a nanoscale solid-reaction coating method. Journal of Alloys and Compounds, 2022, 912, 165174. | 2.8 | 9 |
| 404 | Stereolithography 3D printing of ceramic cores for hollow aeroengine turbine blades. Journal of Materials Science and Technology, 2022, 127, 177-182. | 5.6 | 12 |
| 405 | Rapid prototyping of silica optical fibers. Optical Materials Express, 2022, 12, 2426. | 1.6 | 7 |
| 406 | Low Temperature Additive Manufacturing of Glass. SSRN Electronic Journal, 0, , . | 0.4 | 0 |
| 407 | Refractive Index and Abbe Number Tuning via 3D Printable Optical Quality Silica-Titania-Germania Glasses. Advanced Photonics Research, 2022, 3, . | 1.7 | 6 |
| 408 | 3D Printing Mesoscale Optical Components with a Low-Cost Resin Printer Integrated with a Fiber-Optic Taper. ACS Photonics, 2022, 9, 2024-2031. | 3.2 | 5 |
| 409 | Maillard reaction-derived laser lithography for printing functional inorganics. Science China Chemistry, 0, , . | 4.2 | 1 |
| 410 | The influence of particle size distribution on rheological properties of fused silica pastes for direct ink writing. International Journal of Applied Ceramic Technology, 0, , . | 1.1 | 2 |
| 411 | Additive Manufacturing of Optical Waveguides. , 0, , . | | 0 |
| 412 | Design paradigm for strong-lightweight perfect microwave absorbers: The case of 3D printed gyroid shellular SiOC-based metamaterials. Carbon, 2022, 196, 961-971. | 5.4 | 28 |
| 413 | Digital light processing 3D printing of hydrogels: a minireview. Molecular Systems Design and Engineering, 2022, 7, 1017-1029. | 1.7 | 22 |
| 414 | Emerging 3D printing technologies and methodologies for microfluidic development. Analytical Methods, 2022, 14, 2885-2906. | 1.3 | 16 |
| 415 | Fabrication of ceramics using photosensitive slurries: A comparison between UV-casting replication and vat photopolymerization 3D printing. Processing and Application of Ceramics, 2022, 16, 153-159. | 0.4 | 4 |
| 416 | Three-dimensionally (3D) printed sand molds for custom glass parts. Glass Structures and Engineering, 2022, 7, 231-251. | 0.8 | 1 |
| 417 | Digital Light Processing 3D Printing of Tough Supramolecular Hydrogels with Sophisticated Architectures as Impact-Absorption Elements. Advanced Materials, 2022, 34, . | 11.1 | 46 |
| 418 | A comparative study of mechanical behavior of ABS material based on UVC sterilization for medical usage. Journal of Mechanical Science and Technology, 2022, 36, 3373-3385. | 0.7 | 4 |
| 419 | Review of 3D printing in photocatalytic substrates and catalysts. Materials Today Energy, 2022, 29, 101100. | 2.5 | 7 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 420 | Effect of impregnated phenolic resin on the properties of SiC ceramic matrix composites fabricated by SLS-RMI. <i>Ceramics International</i> , 2023, 49, 1624-1635. | 2.3 | 7 |
| 421 | Tailoring thermal insulation architectures from additive manufacturing. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 14 |
| 422 | Direct photo-curing 3D printing of nickel-based electrocatalysts for highly-efficient hydrogen evolution. <i>Nano Energy</i> , 2022, 102, 107615. | 8.2 | 17 |
| 423 | Investigation of glass bonding and multi-layer deposition during filament-based glass 3D printing. <i>Frontiers in Materials</i> , 0, 9, . | 1.2 | 6 |
| 424 | Additive manufacturing by digital light processing: a review. <i>Progress in Additive Manufacturing</i> , 2023, 8, 331-351. | 2.5 | 55 |
| 425 | Current status of sol-gel processing of glasses, ceramics, and organic-inorganic hybrids: a brief review. <i>Journal of the Ceramic Society of Japan</i> , 2022, 130, 575-583. | 0.5 | 5 |
| 426 | Polyurethane (<scp>PU</scp>) based multifunctional materials: Emerging paradigm for functional textiles, smart, and biomedical applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, . | 1.3 | 19 |
| 427 | Thermadapt Shape Memory Polymers Enabling Spatially Regulated Plasticity. <i>ACS Macro Letters</i> , 2022, 11, 1112-1116. | 2.3 | 3 |
| 428 | 3D printing of gadolinium oxide structure neutron absorber. <i>Ceramics International</i> , 2022, 48, 35198-35208. | 2.3 | 2 |
| 429 | Replicative manufacturing of metal moulds for low surface roughness polymer replication. <i>Nature Communications</i> , 2022, 13, . | 5.8 | 8 |
| 430 | Direct ink writing of porous SiC ceramics with geopolymer as binder. <i>Journal of the European Ceramic Society</i> , 2022, 42, 6815-6826. | 2.8 | 20 |
| 432 | Emerging techniques for customized fabrication of glass. <i>Journal of Non-Crystalline Solids: X</i> , 2022, 15, 100114. | 0.5 | 2 |
| 433 | Phosphor-Silica-Glass: Filling the Gap between Low and High Brightness Solid State Lightings. <i>Laser and Photonics Reviews</i> , 2022, 16, . | 4.4 | 14 |
| 434 | Lightweight lattice-based skeleton of the sponge <i>Euplectella aspergillum</i> : On the multifunctional design. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022, 135, 105448. | 1.5 | 6 |
| 435 | Scaling up multiphase photochemical reactions using translucent monoliths. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 181, 109138. | 1.8 | 5 |
| 436 | Micro/nano functional devices fabricated by additive manufacturing. <i>Progress in Materials Science</i> , 2023, 131, 101020. | 16.0 | 55 |
| 437 | Material Extrusion and Vat Photopolymerization Principles, Opportunities and Challenges. , 2022, , 53-76. | | 2 |
| 438 | Preparation of a novel regenerated silk fibroin-based hydrogel for extrusion bioprinting. <i>Soft Matter</i> , 2022, 18, 7360-7368. | 1.2 | 6 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 439 | Surface Modification of Additively Manufactured Materials: Adding Functionality as Fourth Dimension. , 2022, , 137-168. | | 2 |
| 440 | A full-face mask for protection against respiratory infections. BioMedical Engineering OnLine, 2022, 21, . | 1.3 | 2 |
| 441 | 3D printing of void-free glass monoliths: rheological and geometric considerations. Rheologica Acta, 2022, 61, 773-784. | 1.1 | 2 |
| 442 | 3D-printing nanocrystals with light. Science, 2022, 377, 1046-1047. | 6.0 | 3 |
| 443 | Numerical investigation of the influence of process parameters and tool path on the temperature in the laser glass deposition (LGD) process. Production Engineering, 0, , . | 1.1 | 0 |
| 444 | 2.5D, 3D and 4D printing in nanophotonics - a progress report. Materials Today: Proceedings, 2022, 70, 304-309. | 0.9 | 4 |
| 445 | Projektbeispiele. , 2022, , 153-201. | | 0 |
| 446 | Rapid Fabrication of Silica Microlens Arrays via Glass 3D Printing. 3D Printing and Additive Manufacturing, 0, , . | 1.4 | 3 |
| 447 | A Monolithic Grapheneâ€Functionalized Microlaser for Multispecies Gas Detection. Advanced Materials, 2022, 34, . | 11.1 | 16 |
| 448 | Digital light processing additive manufacturing of thin dental porcelain veneers. Journal of the European Ceramic Society, 2023, 43, 1161-1167. | 2.8 | 3 |
| 449 | Additive Manufacturing of Ceramics: Materials, Characterization and Applications. , 2023, , 245-331. | | 0 |
| 450 | Sub-40Ânm nanogratings self-organized in PVP-based polymer composite film by photoexcitation and two sequent splitting under femtosecond laser irradiation. Applied Surface Science, 2023, 609, 155395. | 3.1 | 4 |
| 451 | 3D Printing Silica Optical Fibers, Materials and Processes. , 2022, , . | | 0 |
| 452 | Life on Mars: First Person Speculation in the (Imaginary) Everyday. , 2022, , 2789-2805. | | 0 |
| 453 | A Digital Twin for MEMS and NEMS. Springer Handbooks, 2023, , 1303-1334. | 0.3 | 0 |
| 454 | Printing Hollow Tubes Using Digital Glass Forming. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2023, 145, . | 1.3 | 2 |
| 455 | On the Evolution of Additive Manufacturing (3D/4D Printing) Technologies: Materials, Applications, and Challenges. Polymers, 2022, 14, 4698. | 2.0 | 23 |
| 456 | Experimental Investigation of Additive Manufacturing of Fused Silica Fibers for the Production of Structural Components in the Laser Glass Deposition Process. , 2023, , 273-285. | | 0 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|------|-----------|
| 457 | Efficient Fabrication of Quartz Glass Using Laser Coaxial Powder-Fed Additive Manufacturing Approach. 3D Printing and Additive Manufacturing, 0, , . | 1.4 | 0 |
| 458 | 3D scattering microphantom sample to assess quantitative accuracy in tomographic phase microscopy techniques. Scientific Reports, 2022, 12, . | 1.6 | 6 |
| 459 | Recent Progresses in ^{Free} Soft Ionic Conductive Elastomers^{â€}. Chinese Journal of Chemistry, 2023, 41, 835-860. | 2.6 | 11 |
| 460 | Additive manufacturing of microstructured reactors for organometallic catalytic reactions. Lab on A Chip, 2023, 23, 702-713. | 3.1 | 2 |
| 461 | Stereolithography 3D printing of transparent resin lens for high-power phosphor-coated WLEDs packaging. Journal of Manufacturing Processes, 2023, 85, 756-763. | 2.8 | 2 |
| 462 | Atomic-scale surface of fused silica induced by chemical mechanical polishing with controlled size spherical ceria abrasives. Journal of Manufacturing Processes, 2023, 85, 783-792. | 2.8 | 27 |
| 463 | Technologies for Advanced X-Ray Mirror Fabrication. , 2022, , 1-39. | | 0 |
| 464 | Additive Manufacturing of Glass-Ceramic Parts from Recycled Glass Using a Novel Selective Powder Deposition Process. Applied Sciences (Switzerland), 2022, 12, 13022. | 1.3 | 1 |
| 465 | Overview of 3D construction printing and future perspectives: a review of technology, companies and research progression. Architectural Science Review, 2024, 67, 1-22. | 1.1 | 4 |
| 466 | 4D Printing using Fused Deposited Shape Memory Polymer PLA: A state-of-art Review. , 2022, , . | | 0 |
| 467 | Structure analysis of 3D printer device of reversible working platform. , 2022, , . | | 0 |
| 468 | 3D Laser Nanoprinting of Functional Materials. Advanced Functional Materials, 2023, 33, . | 7.8 | 8 |
| 469 | Embedded 3D Printing of Architected Ceramics via Microwaveâ€Activated Polymerization. Advanced Materials, 0, , 2209270. | 11.1 | 5 |
| 470 | Microfluidic Organ-on-A-chip: A Guide to Biomaterial Choice and Fabrication. International Journal of Molecular Sciences, 2023, 24, 3232. | 1.8 | 22 |
| 471 | 3D Printed Ionogels In Sensors. Polymer-Plastics Technology and Materials, 2023, 62, 632-654. | 0.6 | 1 |
| 472 | Three-Dimensional-Printed Device for In Situ Monitoring of an Organic Redox-Flow Battery via NMR/MRI. Analytical Chemistry, 2023, 95, 6020-6028. | 3.2 | 1 |
| 473 | The Densification Characteristics of Polished Fused Silica Glass and Its Scattering Characteristics. Photonics, 2023, 10, 447. | 0.9 | 1 |
| 474 | The past, present and future of photonic glasses: A review in homage to the United Nations International Year of glass 2022. Progress in Materials Science, 2023, 134, 101084. | 16.0 | 26 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|------|-----------|
| 475 | Sintering behavior of ultra-thin 3D printed alumina lattice structures. <i>Acta Materialia</i> , 2023, 250, 118865. | 3.8 | 3 |
| 476 | Surfactant effect on DLP fabrication of silica fibre preforms. <i>Ceramics International</i> , 2023, 49, 15689-15699. | 2.3 | 2 |
| 477 | Recent developments in digital light processing 3D-printing techniques for microfluidic analytical devices. <i>Journal of Chromatography A</i> , 2023, 1692, 463842. | 1.8 | 21 |
| 478 | <i>In Situ</i> Actuators with Gallium Liquid Metal Alloys and Polypyrrole-Coated Electrodes. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 10109-10122. | 4.0 | 6 |
| 479 | A comprehensive review on additive manufacturing of glass: Recent progress and future outlook. <i>Materials and Design</i> , 2023, 227, 111736. | 3.3 | 7 |
| 480 | Effect of particle size on additive manufacturing of complex architecture of silicon carbide. <i>Ceramics International</i> , 2023, 49, 17396-17404. | 2.3 | 1 |
| 481 | Angle-independent solar radiation capture by 3D printed lattice structures for efficient photoelectrochemical water splitting. <i>Materials Horizons</i> , 2023, 10, 1806-1815. | 6.4 | 2 |
| 482 | 3D Printing of Dental Restorative Composites and Ceramics – Toward the Next Frontier in Restorative Dentistry. <i>Journal of the California Dental Association</i> , 2019, 47, 653-665. | 0.0 | 3 |
| 483 | Laser-Induced Cavitation-Assisted True 3D Nano-Sculpturing of Hard Materials. <i>Small</i> , 2023, 19, . | 5.2 | 7 |
| 484 | Fabrication of Glass Microchannels Using Plant Roots and Nematodes. <i>Journal of Photopolymer Science and Technology</i> = [Fotoporima Konwakai Shi], 2022, 35, 219-223. | 0.1 | 0 |
| 485 | Biomolecular glass with amino acid and peptide nanoarchitectonics. <i>Science Advances</i> , 2023, 9, . | 4.7 | 27 |
| 486 | Two-Photon Polymerization Lithography for Optics and Photonics: Fundamentals, Materials, Technologies, and Applications. <i>Advanced Functional Materials</i> , 2023, 33, . | 7.8 | 39 |
| 487 | Biofunctionalized 3D printed structures for biomedical applications: A critical review of recent advances and future prospects. <i>Progress in Materials Science</i> , 2023, 137, 101124. | 16.0 | 6 |
| 488 | Fiber-Fed 3D Printing of Germanate Glass Optics. <i>Photonics</i> , 2023, 10, 378. | 0.9 | 2 |
| 489 | Smart Manufacturing. <i>Advances in Computational Intelligence and Robotics Book Series</i> , 2023, , 278-300. | 0.4 | 1 |
| 490 | From resin formulation and process parameters to the final mechanical properties of 3D printed acrylate materials. <i>MRS Communications</i> , 2023, 13, 357-377. | 0.8 | 11 |
| 491 | 3D Printing of Luminescent Glass with Controlled Distribution of Emission Colors for Multi-Dimensional Optical Anti-Counterfeiting. <i>Laser and Photonics Reviews</i> , 2023, 17, . | 4.4 | 3 |
| 503 | Capillary-driven microfluidics: impacts of 3D manufacturing on bioanalytical devices. <i>Analyst</i> , The, 2023, 148, 2657-2675. | 1.7 | 4 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 516 | Rare earth-doped glass whispering gallery mode micro-lasers. European Physical Journal Plus, 2023, 138, . | 1.2 | 3 |
| 528 | Laser Based 3D Printing of Fused Silica Glass. , 2023, , . | | 0 |
| 540 | Vat Photopolymerization. Springer Handbooks, 2023, , 349-370. | 0.3 | 0 |
| 541 | Production Process Chain from CAD to Part. Springer Handbooks, 2023, , 233-251. | 0.3 | 0 |
| 559 | Solid-state, liquid-free ion-conducting elastomers: rising-star platforms for flexible intelligent devices. Materials Horizons, 2024, 11, 1152-1176. | 6.4 | 0 |
| 560 | Exploring the advantages and applications of nanocomposites produced via vat photopolymerization in additive manufacturing: A review. Advanced Composites and Hybrid Materials, 2024, 7, . | 9.9 | 4 |
| 563 | Fabrication of silica glass microchannel reflectors by 3D printing and UV-curing. , 2023, , . | | 0 |
| 570 | Technology for organ-on-chip applications. , 2024, , 33-70. | | 0 |
| 579 | Project Examples. , 2024, , 149-201. | | 0 |
| 580 | Fabrication and applications of nanostructured soft-glass optical fiber. , 2024, , 127-158. | | 0 |
| 581 | Technologies for Advanced X-ray Mirror Fabrication. , 2024, , 371-409. | | 0 |