

Three-dimensional printing of transparent fused silica g

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Citation Report

#	ARTICLE	IF	CITATIONS
3	How to print glass. Nature, 2017, 544, 305-305.	27.8	1
4	Emerging microreaction systems based on 3D printing techniques and separation technologies. Journal of Flow Chemistry, 2017, 7, 72-81.	1.9	26
5	Additive direct-write microfabrication for MEMS: A review. Frontiers of Mechanical Engineering, 2017, 12, 490-509.	4.3	36
6	Using Printing Orientation for Tuning Fluidic Behavior in Microfluidic Chips Made by Fused Deposition Modeling 3D Printing. Analytical Chemistry, 2017, 89, 12805-12811.	6.5	66
7	3D printing technologies for electrochemical energy storage. Nano Energy, 2017, 40, 418-431.	16.0	351
8	Ultralow-Temperature Solution-Processed Aluminum Oxide Dielectrics via Local Structure Control of Nanoclusters. ACS Applied Materials & Interfaces, 2017, 9, 35114-35124.	8.0	44
9	Nanolattices: An Emerging Class of Mechanical Metamaterials. Advanced Materials, 2017, 29, 1701850.	21.0	356
10	Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. Angewandte Chemie - International Edition, 2017, 56, 12594-12598.	13.8	72
11	Liquid Tubule Formation and Stabilization Using Cellulose Nanocrystal Surfactants. Angewandte Chemie, 2017, 129, 12768-12772.	2.0	50
12	A storey of buildings and materials. Nature Reviews Materials, 2017, 2, .	48.7	0
13	Printing glass in 3D. Physics Today, 2017, 70, 24-24.	0.3	1
14	Cutting Edge of MEMS Research and Development in 2017. Hyomen Gijutsu/Journal of the Surface Finishing Society of Japan, 2017, 68, 360-366.	0.2	2
15	Design of a Shaping System for Stereolithography with High Solid Loading Ceramic Suspensions. 3D Printing and Additive Manufacturing, 2018, 5, 311-318.	2.9	53
16	Optical 3D printing: bridging the gaps in the mesoscale. Journal of Optics (United Kingdom), 2018, 20, 053001.	2.2	75
17	Glassomerâ€”Processing Fused Silica Glass Like a Polymer. Advanced Materials, 2018, 30, e1707100.	21.0	60
18	Local Wettability Modification and its Micro-Fluidic System Application. Toxinology, 2018, , 1-33.	0.2	0
19	Additive Manufacturing Technologies: 3D Printing in Organic Synthesis. ChemCatChem, 2018, 10, 1512-1525.	3.7	90
20	Feasibility of Defect Tunable Bone Engineering Using Electroblown Bioactive Fibrous Scaffolds with Dental Stem Cells. ACS Biomaterials Science and Engineering, 2018, 4, 1019-1028.	5.2	15

#	ARTICLE	IF	CITATIONS
21	Elastically-isotropic truss lattice materials of reduced plastic anisotropy. International Journal of Solids and Structures, 2018, 138, 24-39.	2.7	128
22	3D printed microfluidics and microelectronics. Microelectronic Engineering, 2018, 189, 52-68.	2.4	162
23	3D Printed Optical Quality Silica and Silica-Titania Glasses from Sol-Gel Feedstocks. Advanced Materials Technologies, 2018, 3, 1700323.	5.8	74
24	A highly efficient waterborne photoinitiator for visible-light-induced three-dimensional printing of hydrogels. Chemical Communications, 2018, 54, 920-923.	4.1	77
25	Towards Biofilm Spectroscopy – A Novel Microfluidic Approach for Characterizing Biofilm Subpopulation by Microwave-Based Electrical Impedance Spectroscopy. Frequenz, 2018, 72, 123-134.	0.9	0
26	High-Speed 3D Printing of Millimeter-Size Customized Aspheric Imaging Lenses with Sub 7 nm Surface Roughness. Advanced Materials, 2018, 30, e1705683.	21.0	98
27	Inverse-designed stretchable metalens with tunable focal distance. Applied Physics Letters, 2018, 112, .	3.3	24
28	Liquid PMMA: A High Resolution Polymethylmethacrylate Negative Photoresist as Enabling Material for Direct Printing of Microfluidic Chips. Advanced Engineering Materials, 2018, 20, 1700699.	3.5	23
29	Surface Plasmon Resonance: Material and Interface Design for Universal Accessibility. Analytical Chemistry, 2018, 90, 19-39.	6.5	113
30	Resolution improvement of 3D stereo-lithography through the direct laser trajectory programming: Application to microfluidic deterministic lateral displacement device. Analytica Chimica Acta, 2018, 1000, 239-247.	5.4	37
31	3D printing in chemical engineering and catalytic technology: structured catalysts, mixers and reactors. Chemical Society Reviews, 2018, 47, 209-230.	38.1	351
32	Doppelringbiegeversuche an Glasplatten aus Kalk-Natron-Silikatglas bei erhöhten Temperaturen bis in den Transformationsbereich. Ce/Papers, 2018, 2, 185-198.	0.3	0
33	Printing Free-Form Free-Standing Glass Structures. , 2018, , .		2
34	Rapid Prototyping for Photochemical Reaction Engineering. Chemie-Ingenieur-Technik, 2019, 91, 17-29.	0.8	23
35	Enhanced Mass Transfer and Improved Catalyst Recovery in a Stirred Reactor by Polymeric Ionic Liquids Modified 3D Printed Devices. Advanced Materials Technologies, 2019, 4, 1800515.	5.8	12
36	Additive manufacturing of glass: CO2-Laser glass deposition printing. Procedia CIRP, 2018, 74, 272-275.	1.9	47
37	Advances in Optical Sensing and Bioanalysis Enabled by 3D Printing. ACS Sensors, 2018, 3, 2475-2491.	7.8	56
38	3D printing for chemical, pharmaceutical and biological applications. Nature Reviews Chemistry, 2018, 2, 422-436.	30.2	210

#	ARTICLE	IF	CITATIONS
39	Additive Manufacturing of Transparent Glass Structures. 3D Printing and Additive Manufacturing, 2018, 5, 269-283.	2.9	32
40	Developing a method of fabricating microchannels using plant root structure. Japanese Journal of Applied Physics, 2018, 57, 06HJ07.	1.5	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.	8.0	7
44	Glassâ€”Channel Molding Assisted 3D Printing of Metallic Microstructures Enabled by Femtosecond Laser Internal Processing and Microfluidic Electroless Plating. Advanced Materials Technologies, 2018, 3, 1800372.	5.8	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.	5.3	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.	4.6	15
47	Recent Progress in Biomimetic Additive Manufacturing Technology: From Materials to Functional Structures. Advanced Materials, 2018, 30, e1706539.	21.0	325
48	Hybrid Materials for Functional 3D Printing. Advanced Materials Interfaces, 2018, 5, 1800996.	3.7	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.	3.0	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.	2.9	106
51	3D printing of multicolor luminescent glass. RSC Advances, 2018, 8, 31564-31567.	3.6	36
52	Direct laser fabrication of meso-scale 2D and 3D architectures with micrometric feature resolution. Additive Manufacturing, 2018, 22, 440-446.	3.0	21
53	A Subtractive Photoresist Platform for Microâ€”and Macroscopic 3D Printed Structures. Advanced Functional Materials, 2018, 28, 1801405.	14.9	33
54	3D Printing of Hierarchical Porous Silica and Î±-Quartz. Advanced Materials Technologies, 2018, 3, 1800060.	5.8	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.	11.4	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.	3.3	16
59	Fused glass deposition modelling for applications in the built environment. Materialwissenschaft Und Werkstofftechnik, 2018, 49, 870-880.	0.9	3
60	3D printed fiber optic faceplates by custom controlled fused deposition modeling. Optics Express, 2018, 26, 15362.	3.4	27
61	Predicting Nanoparticle Suspension Viscoelasticity for Multimaterial 3D Printing of Silica-Titania Glass. ACS Applied Nano Materials, 2018, 1, 4038-4044.	5.0	39
62	Highly Fluorinated Methacrylates for Optical 3D Printing of Microfluidic Devices. Micromachines, 2018, 9, 115.	2.9	44
63	3D Shape Reconstruction of 3D Printed Transparent Microscopic Objects from Multiple Photographic Images Using Ultraviolet Illumination. Micromachines, 2018, 9, 261.	2.9	3
64	Engineering of Removing Sacrificial Materials in 3D-Printed Microfluidics. Micromachines, 2018, 9, 327.	2.9	19
65	Fused Deposition Modeling of ABS-Barium Titanate Composites: A Simple Route towards Tailored Dielectric Devices. Polymers, 2018, 10, 666.	4.5	70
66	Novel Materials for 3D Printing by Photopolymerization. Advanced Materials, 2018, 30, e1706344.	21.0	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.	7.3	19
68	Additive manufacturing of silica glass using laser stereolithography with a top-down approach and fast debinding. RSC Advances, 2018, 8, 16344-16348.	3.6	44
69	Additive Manufacturing of Transparent Silica Glass from Solutions. ACS Applied Materials & Interfaces, 2018, 10, 18879-18885.	8.0	97
70	Origami and 4D printing of elastomer-derived ceramic structures. Science Advances, 2018, 4, eaat0641.	10.3	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.	5.8	33
73	Demonstration of a terahertz pure vector beam by tailoring geometric phase. Scientific Reports, 2018, 8, 8690.	3.3	14
74	3D-Printed Organic-Ceramic Complex Hybrid Structures with High Silica Content. Advanced Science, 2018, 5, 1800061.	11.2	55

#	ARTICLE	IF	CITATIONS
75	Rapid Openâ€Air Digital Light 3D Printing of Thermoplastic Polymer. Advanced Materials, 2019, 31, e1903970.	21.0	112
77	Gravure printing for mesoporous film preparation. RSC Advances, 2019, 9, 23570-23578.	3.6	18
78	3D Printing of All-Glass Fiber-Optic Pressure Sensor for High Temperature Applications. IEEE Sensors Journal, 2019, 19, 11242-11246.	4.7	29
79	Assembly of Topographical Micropatterns with Optoelectronic Tweezers. Advanced Optical Materials, 2019, 7, 1900669.	7.3	14
80	Fabrication of Porous Hydrogenation Catalysts by a Selective Laser Sintering 3D Printing Technique. ACS Omega, 2019, 4, 12012-12017.	3.5	26
81	Effect of Polymer Binder on the Synthesis and Properties of 3D-Printable Particle-Based Liquid Materials and Resulting Structures. ACS Omega, 2019, 4, 12088-12097.	3.5	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. Langmuir, 2019, 35, 10267-10275.	3.5	27
83	Hierarchical Cellular Structured Ceramic Nanofibrous Aerogels with Temperature-Invariant Superelasticity for Thermal Insulation. ACS Applied Materials & Interfaces, 2019, 11, 29056-29064.	8.0	118
84	<i>110th Anniversary</i>: Vat Photopolymerization-Based Additive Manufacturing: Current Trends and Future Directions in Materials Design. Industrial & Engineering Chemistry Research, 2019, 58, 15109-15118.	3.7	80
85	Mechanics of shape distortion of DLP 3D printed structures during UV post-curing. Soft Matter, 2019, 15, 6151-6159.	2.7	94
86	Porous alumina ceramic via gelcasting based on 2-hydroxyethyl methacrylate dissolved in tert-butyl alcohol. Transactions of Nonferrous Metals Society of China, 2019, 29, 1714-1720.	4.2	5
87	A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. Angewandte Chemie, 2019, 131, 18122-18131.	2.0	169
88	A Versatile 3D and 4D Printing System through Photocontrolled RAFT Polymerization. Angewandte Chemie - International Edition, 2019, 58, 17954-17963.	13.8	161
89	Rapid Multi-Material Direct Laser Writing. , 2019, , .		0
90	Crack engineering for the construction of arbitrary hierarchical architectures. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 23909-23914.	7.1	34
91	Materials Characterization of Thin Films Printed with Ge ₂₀ Se ₈₀ Ink. Microscopy and Microanalysis, 2019, 25, 2606-2607.	0.4	2
92	Liquid Glass for Photovoltaics: Multifunctional Front Cover Glass for Solar Modules. ACS Applied Materials & Interfaces, 2019, 11, 35015-35022.	8.0	13
93	Three-Dimensional Printing of Hierarchical Porous Architectures. Chemistry of Materials, 2019, 31, 10017-10022.	6.7	18

#	ARTICLE	IF	CITATIONS
94	Ultrafast Three-Dimensional Printing of Optically Smooth Microlens Arrays by Oscillation-Assisted Digital Light Processing. ACS Applied Materials & Interfaces, 2019, 11, 40662-40668.	8.0	62
95	Biological and Engineered Topological Droplet Rectifiers. Advanced Materials, 2019, 31, e1806501.	21.0	113
96	Geometric Determinants of In-Situ Direct Laser Writing. Scientific Reports, 2019, 9, 394.	3.3	43
97	Laser Additive Manufacturing Processes for Near Net Shape Components. Materials Forming, Machining and Tribology, 2019, , 105-141.	1.1	18
98	Increasing the functionalities of 3D printed microchemical devices by single material, multimaterial, and print-pause-print 3D printing. Lab on A Chip, 2019, 19, 35-49.	6.0	135
99	3D-printed ceramic structures with in situ grown whiskers for effective oil/water separation. Chemical Engineering Journal, 2019, 373, 1223-1232.	12.7	52
100	3D Printing of Complex-type SiOC Ceramics Derived From Liquid Photosensitive Resin. ChemistrySelect, 2019, 4, 6862-6869.	1.5	20
101	Accurate printing of a zirconia molar crown bridge using three-part auxiliary supports and ceramic mask projection stereolithography. Ceramics International, 2019, 45, 18814-18822.	4.8	45
102	Programmable Mechanical Properties of Two-photon Polymerized Materials: From Nanowires to Bulk. Advanced Materials Technologies, 2019, 4, 1900146.	5.8	65
103	3D-printed monolithic SiCN ceramic microreactors from a photocurable preceramic resin for the high temperature ammonia cracking process. Reaction Chemistry and Engineering, 2019, 4, 1393-1399.	3.7	38
104	Towards Digital Manufacturing of Smart Multimaterial Fibers. Nanoscale Research Letters, 2019, 14, 209.	5.7	19
105	Additive Manufacturing of 3D-Architected Multifunctional Metal Oxides. Advanced Materials, 2019, 31, e1901345.	21.0	68
106	Digital Manufacturing for Microfluidics. Annual Review of Biomedical Engineering, 2019, 21, 325-364.	12.3	70
107	A facile multi-material direct laser writing strategy. Lab on A Chip, 2019, 19, 2340-2345.	6.0	52
108	Additive Manufacturing of 3D Structures Composed of Wood Materials. Advanced Materials Technologies, 2019, 4, 1900158.	5.8	32
109	Bioprinting of freestanding vascular grafts and the regulatory considerations for additively manufactured vascular prostheses. Translational Research, 2019, 211, 123-138.	5.0	19
110	3D printing of nerve conduits with nanoparticle-encapsulated RGFP966. Applied Materials Today, 2019, 16, 247-256.	4.3	46
111	Miniaturized and Automated Synthesis of Biomolecules—Overview and Perspectives. Advanced Materials, 2019, 31, 1806656.	21.0	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.	2.1	15
114	Structural Changes during Sintering of Al ₂ O ₃ 3D-Ceramics. Refractories and Industrial Ceramics, 2019, 59, 466-470.	0.6	2
115	Artificial Microbial Arenas: Materials for Observing and Manipulating Microbial Consortia. Advanced Materials, 2019, 31, 1900284.	21.0	30
116	Hierarchical Nanoporous Copper Architectures via 3D Printing Technique for Highly Efficient Catalysts. Small, 2019, 15, e1805432.	10.0	31
117	Chemical analysis using 3D printed glass microfluidics. Analytical Methods, 2019, 11, 1802-1810.	2.7	48
118	Additive manufacturing of glass with laser powder bed fusion. Journal of the American Ceramic Society, 2019, 102, 4410-4414.	3.8	36
119	Fabrication of arbitrary three-dimensional suspended hollow microstructures in transparent fused silica glass. Nature Communications, 2019, 10, 1439.	12.8	76
120	Architected Polymeric Materials Produced by Additive Manufacturing. Springer Series in Materials Science, 2019, , 257-285.	0.6	3
121	Rapid 3D printing of functional nanoparticle-enhanced conduits for effective nerve repair. Acta Biomaterialia, 2019, 90, 49-59.	8.3	114
122	Colloidal Materials for 3D Printing. Annual Review of Chemical and Biomolecular Engineering, 2019, 10, 17-42.	6.8	47
123	High-Performance Materials for 3D Printing in Chemical Synthesis Applications. Advanced Materials, 2019, 31, e1805982.	21.0	82
124	Dynamic Plasticity and Failure of Microscale Glass: Rate-Dependent Ductile-Brittle-Ductile Transition. Nano Letters, 2019, 19, 2350-2359.	9.1	39
125	The mechanical strength of Ti-6Al-4V columns with regular octet microstructure manufactured by electron beam melting. Materialia, 2019, 5, 100232.	2.7	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.	2.9	33
128	Photoresins based on acrylated epoxidized soybean oil and benzenedithiols for optical 3D printing. Rapid Prototyping Journal, 2019, 25, 378-387.	3.2	13
129	Additive Manufacturing: Applications and Directions in Photonics and Optoelectronics. Advanced Optical Materials, 2019, 7, 1800419.	7.3	132

#	ARTICLE	IF	CITATIONS
130	Additive-manufacturing of 3D glass-ceramics down to nanoscale resolution. Nanoscale Horizons, 2019, 4, 647-651.	8.0	97
131	Advances in 4D Printing: Materials and Applications. Advanced Functional Materials, 2019, 29, 1805290.	14.9	633
132	Hyperporous carbon-coated 3D printed devices. Applied Materials Today, 2019, 14, 29-34.	4.3	16
133	Synthesis, structural, optical and solid state NMR study of lead bismuth titanate borosilicate glasses. Journal of Non-Crystalline Solids, 2019, 503-504, 288-296.	3.1	20
134	Alternative splicing of VEGFA is regulated by RBM10 in endometrial cancer. Kaohsiung Journal of Medical Sciences, 2020, 36, 13-19.	1.9	16
135	3D printed optics with a soft and stretchable optical material. Additive Manufacturing, 2020, 31, 100912.	3.0	16
136	On the Fracture Behaviour and the Fracture Pattern Morphology of Tempered Soda-Lime Glass. Mechanik, Werkstoffe Und Konstruktion Im Bauwesen, 2020, , .	0.2	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. Applied Surface Science, 2020, 500, 144041.	6.1	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. Science China Technological Sciences, 2020, 63, 532-544.	4.0	61
140	Plasma-digital nexus: plasma nanotechnology for the digital manufacturing age. Reviews of Modern Plasma Physics, 2020, 4, 1.	4.1	16
141	Three Dimensionally Free-Formable Graphene Foam with Designed Structures for Energy and Environmental Applications. ACS Nano, 2020, 14, 937-947.	14.6	101
142	Three-dimensional printing of multicomponent glasses using phase-separating resins. Nature Materials, 2020, 19, 212-217.	27.5	172
143	Digital light processing of 3Y-TZP strengthened ZrO ₂ ceramics. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2020, 774, 138768.	5.6	82
144	Designing with Light: Advanced 2D, 3D, and 4D Materials. Advanced Materials, 2020, 32, e1903850.	21.0	125
145	Miniaturization and 3D Printing of Bioreactors: A Technological Mini Review. Micromachines, 2020, 11, 853.	2.9	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. Journal of Non-Crystalline Solids, 2020, 550, 120362.	3.1	13

#	ARTICLE	IF	CITATIONS
148	Continuous synthesis of 2,5-hexanedione through direct C–C coupling of acetone in a Hilbert fractal photo microreactor. Reaction Chemistry and Engineering, 2020, 5, 2250-2259.	3.7	5
149	Multiphoton-Excited Deep-Ultraviolet Photolithography for 3D Nanofabrication. ACS Applied Nano Materials, 2020, 3, 11434-11441.	5.0	16
150	Macroscale Control of Reactivity using 3D Printed Materials with Intrinsic Catalytic Properties. Applied Catalysis A: General, 2020, 605, 117794.	4.3	5
151	Reliability analysis of a 3D Printing process. Procedia Computer Science, 2020, 173, 191-200.	2.0	9
152	Direct 3D-printing of phosphate glass by fused deposition modeling. Materials and Design, 2020, 194, 108957.	7.0	31
153	3D printing of glass by additive manufacturing techniques: a review. Frontiers of Optoelectronics, 2021, 14, 263-277.	3.7	52
154	3D printed gradient index glass optics. Science Advances, 2020, 6, .	10.3	70
155	From 3D to 4D printing: a reactor for photochemical experiments using hybrid polyurethane acrylates for vat-based polymerization and surface functionalization. Chemical Communications, 2020, 56, 15161-15164.	4.1	14
156	Self-Assembled Disulfide Bond Bearing Paclitaxel–Camptothecin Prodrug Nanoparticle for Lung Cancer Therapy. Pharmaceutics, 2020, 12, 1169.	4.5	16
157	3D Printing of Ordered Mesoporous Silica Complex Structures. Nano Letters, 2020, 20, 6598-6605.	9.1	30
158	Towards additive manufacturing of dielectric accelerating structures. Journal of Physics: Conference Series, 2020, 1596, 012020.	0.4	2
159	Liquid Metal–Polymer Microlattice Metamaterials with High Fracture Toughness and Damage Recoverability. Small, 2020, 16, e2004190.	10.0	32
160	Nanographitic coating enables hydrophobicity in lightweight and strong microarchitected carbon. Communications Materials, 2020, 1, .	6.9	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. Journal of Applied Physics, 2020, 128, .	2.5	9
162	Photocurable Polymer Composition Based on Heat-Resistant Aromatic Polyamide for the Formation of Optical Elements by Two-Photon Polymerization. Optics and Spectroscopy (English Translation of) TJ ETQq0 0 0 rgBt4Overlook 10 Tf 50		
163	Porous cage-derived nanomaterial inks for direct and internal three-dimensional printing. Nature Communications, 2020, 11, 4695.	12.8	18
164	Continuous 3D printing from one single droplet. Nature Communications, 2020, 11, 4685.	12.8	47
165	Thermal Effects in Single-Point Curing Process for Pulsed Infrared Laser-Assisted 3D Printing of Optics. 3D Printing and Additive Manufacturing, 2020, 7, 151-161.	2.9	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.	1.1	9
167	Luer-lock valve: A pre-fabricated pneumatic valve for 3D printed microfluidic automation. <i>Biomicrofluidics</i> , 2020, 14, 044115.	2.4	4
168	2D Nanomaterial-Based Surface Plasmon Resonance Sensors for Biosensing Applications. <i>Micromachines</i> , 2020, 11, 779.	2.9	74
169	Laser glass deposition of spheres for printing micro lenses. <i>Procedia CIRP</i> , 2020, 94, 276-280.	1.9	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.	8.0	55
171	Preliminary Characterization of Glass/Alumina Composite Using Laser Powder Bed Fusion (L-PBF) Additive Manufacturing. <i>Materials</i> , 2020, 13, 2156.	2.9	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.	5.7	79
173	Direct Patterning of Metal Chalcogenide Semiconductor Materials. <i>Advanced Functional Materials</i> , 2020, 30, 2002685.	14.9	15
174	Optical and EPR studies of zinc phosphate glasses containing Mn ²⁺ ions. <i>Journal of Materials Science</i> , 2020, 55, 9948-9961.	3.7	7
175	Polymer-derived SiOC ceramic lattice with thick struts prepared by digital light processing. <i>Additive Manufacturing</i> , 2020, 35, 101366.	3.0	23
176	A Bio-Based Resin for a Multi-Scale Optical 3D Printing. <i>Scientific Reports</i> , 2020, 10, 9758.	3.3	47
177	Bone-inspired healing of 3D-printed porous ceramics. <i>Materials Horizons</i> , 2020, 7, 2130-2140.	12.2	4
178	2D and 3D printing for graphene based supercapacitors and batteries: A review. <i>Sustainable Materials and Technologies</i> , 2020, 25, e00190.	3.3	20
179	Highly efficient phosphor-glass composites by pressureless sintering. <i>Nature Communications</i> , 2020, 11, 2805.	12.8	129
180	Ultra-simplified Single-Step Fabrication of Microstructured Optical Fiber. <i>Scientific Reports</i> , 2020, 10, 9678.	3.3	27
181	A Material Combination Concept to Realize 4D Printed Products with Newly Emerging Property/Functionality. <i>Advanced Science</i> , 2020, 7, 1903208.	11.2	41
182	Glass 3D Printing of Microfluidic Pressure Sensor Interrogated by Fiber-Optic Refractometry. <i>IEEE Photonics Technology Letters</i> , 2020, 32, 414-417.	2.5	8
183	3D printing of conducting polymers. <i>Nature Communications</i> , 2020, 11, 1604.	12.8	568

#	ARTICLE	IF	CITATIONS
184	Development of new nanocomposites for 3D printing applications. , 2020, , 17-59.		5
185	Konstruktion f�r die Additive Fertigung 2019. , 2020, , .		13
186	Hybrid (3D and inkjet) printed electromagnetic pressure sensor using metamaterial absorber. Additive Manufacturing, 2020, 35, 101405.	3.0	18
187	Toward optical fibre fabrication using 3D printing technology. Optical Fiber Technology, 2020, 58, 102299.	2.7	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.	2.8	9
189	3D and 4D printing for optics and metaphotonics. Nanophotonics, 2020, 9, 1139-1160.	6.0	48
190	From Silk Spinning to 3D Printing: Polymer Manufacturing using Directed Hierarchical Molecular Assembly. Advanced Healthcare Materials, 2020, 9, e1901552.	7.6	53
191	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. Materials Science and Engineering Reports, 2020, 140, 100543.	31.8	494
192	3D Printing in analytical sample preparation. Journal of Separation Science, 2020, 43, 1854-1866.	2.5	34
193	3D printing geopolymers nanocomposites: Graphene oxide size effects on a reactive matrix. Carbon, 2020, 164, 215-223.	10.3	35
194	Divide and print. Nature Materials, 2020, 19, 131-133.	27.5	6
195	China's complex material footprint. Nature Materials, 2020, 19, 133-133.	27.5	3
196	Additive Manufacturing of Optical Quality Germanium-Silica Glasses. ACS Applied Materials & Interfaces, 2020, 12, 6736-6741.	8.0	39
197	Freeform Microfluidic Networks Encapsulated in Laser-Printed 3D Macroscale Glass Objects. Advanced Materials Technologies, 2020, 5, 1900989.	5.8	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.	8.7	30
199	3D printing of polytetrafluoroethylene microstructures: A route to superhydrophobic surfaces and devices. Applied Materials Today, 2020, 19, 100580.	4.3	29
200	Adhesive bonding strategies to fabricate high-strength and transparent 3D printed microfluidic device. Biomicrofluidics, 2020, 14, 024113.	2.4	18
201	Highly Expandable Foam for Lithographic 3D Printing. ACS Applied Materials & Interfaces, 2020, 12, 19033-19043.	8.0	23

#	ARTICLE	IF	CITATIONS
202	Direct Ink Writing Glass: A Preliminary Step for Optical Application. <i>Materials</i> , 2020, 13, 1636.	2.9	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.	10.4	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.	4.8	52
205	Influence of powder characteristics on shrinkage behavior of 3D-Printed glass structures. <i>Ceramics International</i> , 2020, 46, 16827-16832.	4.8	7
206	Additive Manufacturing. , 2021, , 203-221.		3
207	Recyclable thermosetting polymers for digital light processing 3D printing. <i>Materials and Design</i> , 2021, 197, 109189.	7.0	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.	4.8	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.	5.7	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.	2.0	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.	4.1	12
212	Improved mechanical properties of silica ceramic cores prepared by 3D printing and sintering processes. <i>Scripta Materialia</i> , 2021, 194, 113665.	5.2	33
213	3D-printed chemical reactors: <i>in situ</i> materials synthesis to advance vat photopolymerization. <i>Polymer International</i> , 2021, 70, 964-976.	3.1	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.	4.4	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.	3.3	9
216	Investigation of polymer materials properties to use for additive manufacturing. <i>Journal of Physics: Conference Series</i> , 2021, 1758, 012001.	0.4	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.	3.9	4
218	3D printing of silica glass through a multiphoton polymerization process. <i>Optics Letters</i> , 2021, 46, 364.	3.3	27
219	Introduction to 4D printing. , 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.	21.0	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.	13.7	21
222	Printed aerogels: chemistry, processing, and applications. <i>Chemical Society Reviews</i> , 2021, 50, 3842-3888.	38.1	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.	6.0	23
224	A 3D-printed <i>Arabidopsis thaliana</i> root imaging platform. <i>Lab on A Chip</i> , 2021, 21, 2557-2564.	6.0	6
225	Modellierung und Evaluation thermischer Effekte für die laserbasierte Additive Fertigung von funktionalen Glaswellenleitern. , 2021, , 119-140.		6
226	Additive Material extrusion 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.	3.4	2
228	Transparent Glass Ceramics. <i>Crystals</i> , 2021, 11, 156.	2.2	10
229	Investigation on Chalcogenide Glass Additive Manufacturing for Shaping Mid-infrared Optical Components and Microstructured Optical Fibers. <i>Crystals</i> , 2021, 11, 228.	2.2	12
230	Three-Dimensional Visualization Algorithm Simulation of Construction Management Based on GIS and VR Technology. <i>Complexity</i> , 2021, 2021, 1-13.	1.6	3
231	3D Printing in Fiber-Device Technology. <i>Advanced Fiber Materials</i> , 2021, 3, 59-75.	16.1	43
232	Rapid High-Resolution 3D Printing and Surface Functionalization via Type I Photoinitiated RAFT Polymerization. <i>Angewandte Chemie</i> , 2021, 133, 8921-8932.	2.0	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.	13.8	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.	1.4	3
236	3D Printing of Transparent Spinel Ceramics with Transmittance Approaching the Theoretical Limit. <i>Advanced Materials</i> , 2021, 33, e2007072.	21.0	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.	3.4	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.	3.0	5

#	ARTICLE	IF	CITATIONS
240	Three-Dimensional Printing of Self-Assembled Dipeptides. ACS Applied Materials & Interfaces, 2021, 13, 20573-20580.	8.0	16
241	Preshaping clear glass at low temperatures. Science, 2021, 372, 126-127.	12.6	3
242	Glass surface micromachining with simultaneous nanomaterial deposition by picosecond laser for wettability control. Applied Surface Science, 2021, 546, 149050.	6.1	11
243	Additive manufacturing of structural materials. Materials Science and Engineering Reports, 2021, 145, 100596.	31.8	254
244	High-resolution stereolithography using a static liquid constrained interface. Communications Materials, 2021, 2, .	6.9	21
245	Recent advances in 3D printing with protein-based inks. Progress in Polymer Science, 2021, 115, 101375.	24.7	74
246	Subsurface structural change of silica upon nanoscale physical contact: Chemical plasticity beyond topographic elasticity. Acta Materialia, 2021, 208, 116694.	7.9	31
247	A mixing microfluidic chip for real-time NMR monitoring of macromolecular reactions. Journal of Biochemistry, 2021, 170, 363-368.	1.7	1
248	High-throughput injection molding of transparent fused silica glass. Science, 2021, 372, 182-186.	12.6	50
249	3D Manufacturing of Glass Microstructures Using Femtosecond Laser. Micromachines, 2021, 12, 499.	2.9	33
250	Additive manufacturing of embedded carbon nanocomposite structures with multi-material digital light processing (MMDLP). Journal of Materials Research, 0, , 1.	2.6	3
251	Fabrication of Microfluidic Devices for Emulsion Formation by Microstereolithography. Molecules, 2021, 26, 2817.	3.8	9
252	A review on the rheological behavior and formulations of ceramic suspensions for vat photopolymerization. Ceramics International, 2021, 47, 11906-11921.	4.8	86
253	On the Post-Processing of 3D-Printed ABS Parts. Polymers, 2021, 13, 1559.	4.5	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.	0.1	0
255	Printable PICN Composite Mechanically Compatible with Human Teeth. Journal of Dental Research, 2021, 100, 1475-1481.	5.2	7
256	Embracing Additive Manufacturing Technology through Fused Filament Fabrication for Antimicrobial with Enhanced Formulated Materials. Polymers, 2021, 13, 1523.	4.5	25
257	Efficient 3D printing via photooxidation of ketocoumarin based photopolymerization. Nature Communications, 2021, 12, 2873.	12.8	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.	2.6	2
259	What Is Driving the Growth of Inorganic Glass in Smart Materials and Opto-Electronic Devices?. <i>Materials</i> , 2021, 14, 2926.	2.9	4
260	Photocuring Three-Dimensional Printing of Thermoplastic Polymers Enabled by Hydrogen Bonds. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 22946-22954.	8.0	24
261	Cellular fluidics. <i>Nature</i> , 2021, 595, 58-65.	27.8	106
262	Smooth or not: Robust fused silica micro-components by femtosecond-laser-assisted etching. <i>Materials and Design</i> , 2021, 204, 109670.	7.0	18
263	Enhanced near-infrared absorption for laser powder bed fusion using reduced graphene oxide. <i>Applied Materials Today</i> , 2021, 23, 101009.	4.3	4
264	Three-dimensional printing of glass micro-optics. <i>Optica</i> , 2021, 8, 904.	9.3	35
265	Leveraging 3D printing to enhance mass spectrometry: A review. <i>Analytica Chimica Acta</i> , 2021, 1166, 338332.	5.4	17
266	Tilting separation simulation and theory verification of mask projection stereolithography process. <i>Rapid Prototyping Journal</i> , 2021, 27, 851-860.	3.2	3
267	Transparent origami glass. <i>Nature Communications</i> , 2021, 12, 4261.	12.8	24
268	Optimization of selective laser etching (SLE) for glass micromechanical structure fabrication. <i>Optics Express</i> , 2021, 29, 23487.	3.4	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.	3.3	12
270	Vat-Photopolymerization-Based Ceramic Manufacturing. <i>Journal of Materials Engineering and Performance</i> , 2021, 30, 4819-4836.	2.5	12
271	Obtaining transparent silica glass from nano-silica hydrosol. <i>Ceramics International</i> , 2021, 47, 19340-19345.	4.8	6
272	Facile Surface Functionalization Strategy for Two-Photon Lithography Microstructures. <i>Small</i> , 2021, 17, e2101048.	10.0	6
273	Glass based micro total analysis systems: Materials, fabrication methods, and applications. <i>Sensors and Actuators B: Chemical</i> , 2021, 339, 129859.	7.8	49
274	Direct laser heating of the filament/substrate interface in digital glass forming. <i>Manufacturing Letters</i> , 2022, 31, 106-109.	2.2	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.	4.8	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. Advanced Materials, 2021, 33, 2103205.	21.0	7
278	Laser cladding of transparent fused silica glass using sub-µm powder. Optical Materials Express, 2021, 11, 3056.	3.0	10
279	Up-Cycling of LCD Glass by Additive Manufacturing of Porous Translucent Glass Scaffolds. Materials, 2021, 14, 5083.	2.9	9
280	Tensile ductility and necking in consolidated amorphous alumina. Journal of the American Ceramic Society, 2022, 105, 958-965.	3.8	3
281	Printability during projection-based 3D bioprinting. Bioactive Materials, 2022, 11, 254-267.	15.6	28
282	In-situ Laser Direct Writing of Silicon-Challenges and Opportunities. Laser and Photonics Reviews, 2021, 15, 2100140.	8.7	38
283	Influence of Al ₂ O ₃ content on mechanical properties of silica-based ceramic cores prepared by stereolithography. Journal of Advanced Ceramics, 2021, 10, 1381-1388.	17.4	31
284	Digital light processing of complex-shaped 3D-zircon (ZrSiO ₄) ceramic components from a photocurable polysiloxane/ZrO ₂ slurry. Ceramics International, 2021, 47, 32905-32914.	4.8	9
285	3D Printing and Pyrolysis of Optical ZrO ₂ Nanostructures by Two-Photon Lithography: Reduced Shrinkage and Crystallization Mediated by Nanoparticles Seeds. Small, 2021, 17, e2102486.	10.0	13
286	3D printing of carbon-based materials: A review. Carbon, 2021, 183, 449-485.	10.3	53
287	Digital light processing of Si-based composite ceramics and bulk silica ceramics from a high solid loading polysiloxane/SiO ₂ slurry. Journal of the European Ceramic Society, 2021, 41, 7189-7198.	5.7	13
288	H-bonds and metal-ligand coordination-enabled manufacture of palm oil-based thermoplastic elastomers by photocuring 3D printing. Additive Manufacturing, 2021, 47, 102268.	3.0	7
289	Unit cell estimation of volumetrically-varying permittivity in additively-manufactured ceramic lattices with X-ray computed tomography. Materials and Design, 2021, 210, 110032.	7.0	7
290	A systematic study of vat-polymerization binders with potential use in the ceramic suspension 3D printing. Additive Manufacturing, 2021, 47, 102225.	3.0	6
291	Fabrication of Yb-doped silica micro-structured optical fibers from UV-curable nano-composites and their application in temperature sensing. Journal of Non-Crystalline Solids, 2021, 573, 121129.	3.1	15
292	Boost of photodegradation performances by adoption of semi-transparent open cell foam substrates via numerical simulation. Chemical Engineering Journal, 2022, 427, 130920.	12.7	1
293	Direct printing of functional 3D objects using polymerization-induced phase separation. Nature Communications, 2021, 12, 55.	12.8	38

#	ARTICLE	IF	CITATIONS
294	Additive Manufacturing of Metal Micro-ring and Tube by Laser-Assisted Electrophoretic Deposition with Laguerreâ€“Gaussian Beam. Nanomanufacturing and Metrology, 0, , 1.	3.0	4
295	Interfacial jamming reinforced Pickering emulgel for arbitrary architected nanocomposite with connected nanomaterial matrix. Nature Communications, 2021, 12, 111.	12.8	24
296	Direct ink writing of recyclable and <i>in situ</i> repairable photothermal polyurethane for sustainable 3D printing development. Journal of Materials Chemistry A, 2021, 9, 6981-6992.	10.3	23
297	Bright Green Emitting CaYAlO ₄ :Tb ³⁺ ,Ce ³⁺ Phosphor: Energy Transfer and 3Dâ€“Printing Artwork. Advanced Optical Materials, 2020, 8, 2000523.	7.3	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. Journal of the European Ceramic Society, 2020, 40, 4556-4561.	5.7	9
301	Rapid three-dimensional structuring of transparent SiO ₂ glass using interparticle photo-cross-linkable suspensions. Communications Materials, 2020, 1, .	6.9	32
302	Widely accessible 3D printing technologies in chemistry, biochemistry and pharmaceuticals: applications, materials and prospects. Russian Chemical Reviews, 2020, 89, 1507-1561.	6.5	32
303	Pixel-based open-space microfluidics for versatile surface processing. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	13
304	Multi-sensor optical profilometer for measurement of large freeforms at nm-level uncertainty. Surface Topography: Metrology and Properties, 2020, 8, 045030.	1.6	2
305	Additive manufacturing of transparent fused quartz. Optical Engineering, 2018, 57, 1.	1.0	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.	5.7	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.	3.3	64
318	Mid-infrared hollow core fiber drawn from a 3D printed chalcogenide glass preform. Optical Materials Express, 2021, 11, 198.	3.0	37
319	3D-printing of arsenic sulfide chalcogenide glasses. Optical Materials Express, 2019, 9, 2307.	3.0	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.	3.4	138
322	Structure-Enhanced Mechanically Robust Graphite Foam with Ultrahigh MnO ₂ Loading for Supercapacitors. Research, 2020, 2020, 7304767.	5.7	24
323	Silica Optical Fibres based on 3D Printing Technologies. , 2021, , .		1
324	Herstellung individueller Strukturen aus silikatischen Werkstoffen mittels Wireâ€Laser Additive Manufacturing. Ce/Papers, 2021, 4, 181-191.	0.3	0
325	Meltâ€Extrusionâ€Based Additive Manufacturing of Transparent Fused Silica Glass. Advanced Science, 2021, 8, e2103180.	11.2	14
326	Printing glass in the nano. Nature Materials, 2021, 20, 1454-1456.	27.5	2
327	3D-printed silica with nanoscale resolution. Nature Materials, 2021, 20, 1506-1511.	27.5	93
328	Accelerated discovery of 3D printing materials using data-driven multiobjective optimization. Science Advances, 2021, 7, eabf7435.	10.3	56
329	3D Printing of Customized Aspheric Lenses for Imaging. Polymers, 2021, 13, 3477.	4.5	3

#	ARTICLE	IF	CITATIONS
330	Tapered depressed-cladding waveguide lasers modulated by Ag nanoparticles embedded in SiO ₂ . Results in Physics, 2021, 30, 104897.	4.1	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.	0.1	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, .	0.1	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.	0.2	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.	4.1	12
349	Suppressing the Step Effect of 3D Printing for Constructing Contact Lenses. Advanced Materials, 2022, 34, e2107249.	21.0	23
350	Longitudinal phase space synthesis with tailored 3D-printable dielectric-lined waveguides. Physical Review Accelerators and Beams, 2020, 23, .	1.6	9
351	Evaluation of advanced methods and materials for construction of scintillation detector light guides. Applied Radiation and Isotopes, 2022, 179, 109979.	1.5	0
352	The three-component photoinitiating systems based on flavonol sulfonate and application in 3D printing. Dyes and Pigments, 2022, 197, 109899.	3.7	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.	21.0	54
355	3D Printing of Transparent Glasses. Springer Series in Optical Sciences, 2021, , 169-184.	0.7	0
356	Hybrid Polymers for Conventional and Additive Manufacturing of Microoptical Elements. Springer Series in Optical Sciences, 2021, , 263-297.	0.7	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.	3.1	0
358	Material loss analysis in glass additive manufacturing by laser glass deposition. Journal of Laser Applications, 2021, 33, .	1.7	5
359	Overview of 3D-Printed Silica Glass. Micromachines, 2022, 13, 81.	2.9	19
360	3D Dip-Pen Nanolithography. Advanced Materials Technologies, 2022, 7, 2101493.	5.8	11
361	Recent advances in 3D printing for catalytic applications. Chemical Engineering Journal, 2022, 433, 134341.	12.7	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.	0.7	7
365	Additive manufacturing of borosilicate glass via stereolithography. Ceramics International, 2022, 48, 12721-12728.	4.8	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.	2.5	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.	10.7	29
369	3D Printing and Shaping Polymers, Composites, and Nanocomposites: A Review. Polymers, 2022, 14, 180.	4.5	60
370	Amplified Spontaneous Emission from Perovskite Quantum Dots Inside a Transparent Glass. Advanced Optical Materials, 2022, 10, .	7.3	13
371	Embedding Quality in Extrusion-Based Additive Manufacturing Technologies. Journal of Materials Engineering and Performance, 2022, 31, 5100-5117.	2.5	1
372	Mechanical performance of polyhedral hollow glass units under compression. Engineering Structures, 2022, 254, 113730.	5.3	1
373	Recent advancements and applications in 3D printing of functional optics. Additive Manufacturing, 2022, 52, 102682.	3.0	33
374	Quill-free additive manufacturing of fused silica glass. Optical Materials Express, 2022, 12, 1480.	3.0	8
375	Single Copolymer Chainâ€Templated Synthesis of Ultrasmall Symmetric and Asymmetric Silicaâ€Based Nanoparticles. Advanced Functional Materials, 2022, 32, .	14.9	10
376	Digital Light Processing 3D Printing of Enhanced Polymers via Interlayer Welding. Macromolecular Rapid Communications, 2022, 43, e2200053.	3.9	10
377	Advancing the Mechanical Performance of Glasses: Perspectives and Challenges. Advanced Materials, 2022, 34, e2109029.	21.0	50
378	Additive Manufacturing Fiber Preforms for Structured Silica Fibers with Bismuth and Erbium Dopants. Light Advanced Manufacturing, 2022, 3, 1.	5.1	3
379	Additive Manufacturing with Borosilicate Glass and Soda-Lime Glass. Proceedings in Engineering Mechanics, 2022, , 151-164.	0.5	0
380	Hygrothermal and Microstructural Investigation of PLA and PLA-Flax Printed Structures. Fibers, 2022, 10, 24.	4.0	2
381	High-throughput manufacturing of transparent fused silica glass by injection molding and extrusion. , 2022, , .		1
382	Freeâ€Form Microâ€Optics Out of Crystals: Femtosecond Laser 3D Sculpturing. Advanced Functional Materials, 2022, 32, .	14.9	19
383	â€/30 inorganic features achieved by multi-photon 3D lithography. Nature Communications, 2022, 13, 1357.	12.8	32

#	ARTICLE	IF	CITATIONS
384	Additive manufacturing for the development of optical/photonic systems and components. Optica, 2022, 9, 623.	9.3	15
385	Temperatureâ€‘dependent dynamic plasticity of micro-scale fused silica. Materials and Design, 2022, 215, 110503.	7.0	7
386	3D printing of optical materials by processes based on photopolymerization: materials, technologies, and recent advances. Photonics Research, 2022, 10, 1344.	7.0	13
387	Rapid Pressureless Sintering of Glasses. Small, 2022, 18, e2107951.	10.0	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. ACS Applied Materials & Interfaces, 2022, 14, 16445-16452.	8.0	4
389	Submicron imprint patterning of compound sheet with ceramic nanopowder. Japanese Journal of Applied Physics, 2022, 61, SD1011.	1.5	0
390	Direct sound printing. Nature Communications, 2022, 13, 1800.	12.8	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. Advanced Powder Technology, 2022, 33, 103533.	4.1	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. Additive Manufacturing, 2022, 53, 102714.	3.0	0
393	Hybrid additive manufacturing for the fabrication of freeform transparent silica glass components. Additive Manufacturing, 2022, 54, 102727.	3.0	12
394	A review of 3D printed porous ceramics. Journal of the European Ceramic Society, 2022, 42, 3351-3373.	5.7	81
395	Present state of 3D printing from glass. Pure and Applied Chemistry, 2022, 94, 169-179.	1.9	1
396	Silica optical fibre fabrication via 3D printing technology: material processing and related issues. European Physical Journal: Special Topics, 2022, 231, 631-642.	2.6	4
397	An Onâ€‘Chip Liquid Metal Plug Generator. Advanced Materials, 2022, 34, e2201469.	21.0	10
398	Volumetric additive manufacturing of silica glass with microscale computed axial lithography. Science, 2022, 376, 308-312.	12.6	94
399	A Preparation Technology of Micro-structure Glass Based on Nano Powders. Journal of Micromechanics and Microengineering, 0, , .	2.6	0
400	Highâ€‘Precision Printing of Complex Glass Imaging Optics with Precondensed Liquid Silica Resin. Advanced Science, 2022, 9, e2105595.	11.2	16
401	A Polystyrene Photoresin for Direct Lithography of Microfluidic Chips. Advanced Materials Technologies, 2022, 7, .	5.8	2

#	ARTICLE	IF	CITATIONS
402	Silica-Encapsulated Germania Colloids as 3D-Printable Glass Precursors. ACS Omega, 2022, 7, 17492-17500.	3.5	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.	5.5	9
404	Stereolithography 3D printing of ceramic cores for hollow aeroengine turbine blades. Journal of Materials Science and Technology, 2022, 127, 177-182.	10.7	12
405	Rapid prototyping of silica optical fibers. Optical Materials Express, 2022, 12, 2426.	3.0	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 Silicaâ€“Titaniaâ€“Germania Glasses. Advanced Photonics Research, 2022, 3, .	3.6	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.	6.6	5
409	Maillard reaction-derived laser lithography for printing functional inorganics. Science China Chemistry, 0, , .	8.2	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, , .	2.1	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.	10.3	28
413	Digital light processing 3D printing of hydrogels: a minireview. Molecular Systems Design and Engineering, 2022, 7, 1017-1029.	3.4	22
414	Emerging 3D printing technologies and methodologies for microfluidic development. Analytical Methods, 2022, 14, 2885-2906.	2.7	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.	0.8	4
416	Three-dimensionally (3D) printed sand molds for custom glass parts. Glass Structures and Engineering, 2022, 7, 231-251.	1.7	1
417	Digital Light Processing 3D Printing of Tough Supramolecular Hydrogels with Sophisticated Architectures as Impactâ€“Absorption Elements. Advanced Materials, 2022, 34, .	21.0	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.	1.5	4
419	Review of 3D printing in photocatalytic substrates and catalysts. Materials Today Energy, 2022, 29, 101100.	4.7	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.	4.8	7
421	Tailoring thermal insulation architectures from additive manufacturing. <i>Nature Communications</i> , 2022, 13, .	12.8	14
422	Direct photo-curing 3D printing of nickel-based electrocatalysts for highly-efficient hydrogen evolution. <i>Nano Energy</i> , 2022, 102, 107615.	16.0	17
423	Investigation of glass bonding and multi-layer deposition during filament-based glass 3D printing. <i>Frontiers in Materials</i> , 0, 9, .	2.4	6
424	Additive manufacturing by digital light processing: a review. <i>Progress in Additive Manufacturing</i> , 2023, 8, 331-351.	4.8	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.	1.1	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, .	2.6	19
427	Thermadapt Shape Memory Polymers Enabling Spatially Regulated Plasticity. <i>ACS Macro Letters</i> , 2022, 11, 1112-1116.	4.8	3
428	3D printing of gadolinium oxide structure neutron absorber. <i>Ceramics International</i> , 2022, 48, 35198-35208.	4.8	2
429	Replicative manufacturing of metal moulds for low surface roughness polymer replication. <i>Nature Communications</i> , 2022, 13, .	12.8	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.	5.7	20
432	Emerging techniques for customized fabrication of glass. <i>Journal of Non-Crystalline Solids: X</i> , 2022, 15, 100114.	1.2	2
433	Phosphor-In-Silica-Glass: Filling the Gap between Low- and High-Brightness Solid-State Lightings. <i>Laser and Photonics Reviews</i> , 2022, 16, .	8.7	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.	3.1	6
435	Scaling up multiphase photochemical reactions using translucent monoliths. <i>Chemical Engineering and Processing: Process Intensification</i> , 2022, 181, 109138.	3.6	5
436	Micro/nano functional devices fabricated by additive manufacturing. <i>Progress in Materials Science</i> , 2023, 131, 101020.	32.8	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.	2.7	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, .	2.7	2
441	3D printing of void-free glass monoliths: rheological and geometric considerations. Rheologica Acta, 2022, 61, 773-784.	2.4	2
442	3D-printing nanocrystals with light. Science, 2022, 377, 1046-1047.	12.6	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, , .	2.3	0
444	2.5D, 3D and 4D printing in nanophotonics - a progress report. Materials Today: Proceedings, 2022, 70, 304-309.	1.8	4
445	Projektbeispiele. , 2022, , 153-201.		0
446	Rapid Fabrication of Silica Microlens Arrays via Glass 3D Printing. 3D Printing and Additive Manufacturing, 0, , .	2.9	3
447	A Monolithic Grapheneâ€Functionalized Microlaser for Multispecies Gas Detection. Advanced Materials, 2022, 34, .	21.0	16
448	Digital light processing additive manufacturing of thin dental porcelain veneers. Journal of the European Ceramic Society, 2023, 43, 1161-1167.	5.7	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.	6.1	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.	0.6	0
454	Printing Hollow Tubes Using Digital Glass Forming. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 2023, 145, .	2.2	2
455	On the Evolution of Additive Manufacturing (3D/4D Printing) Technologies: Materials, Applications, and Challenges. Polymers, 2022, 14, 4698.	4.5	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, , .	2.9	0
458	3D scattering microphantom sample to assess quantitative accuracy in tomographic phase microscopy techniques. Scientific Reports, 2022, 12, .	3.3	6
459	Recent Progresses in ^{Liquidâ€Free} Soft Ionic Conductive Elastomers^{â€}. Chinese Journal of Chemistry, 2023, 41, 835-860.	4.9	11
460	Additive manufacturing of microstructured reactors for organometallic catalytic reactions. Lab on A Chip, 2023, 23, 702-713.	6.0	2
461	Stereolithography 3D printing of transparent resin lens for high-power phosphor-coated WLEDs packaging. Journal of Manufacturing Processes, 2023, 85, 756-763.	5.9	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.	5.9	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.	2.5	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.	2.2	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, .	14.9	8
469	Embedded 3D Printing of Architected Ceramics via Microwaveâ€Activated Polymerization. Advanced Materials, 0, , 2209270.	21.0	5
470	Microfluidic Organ-on-A-chip: A Guide to Biomaterial Choice and Fabrication. International Journal of Molecular Sciences, 2023, 24, 3232.	4.1	22
471	3D Printed Ionogels In Sensors. Polymer-Plastics Technology and Materials, 2023, 62, 632-654.	1.3	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.	6.5	1
473	The Densification Characteristics of Polished Fused Silica Glass and Its Scattering Characteristics. Photonics, 2023, 10, 447.	2.0	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.	32.8	26

#	ARTICLE	IF	CITATIONS
475	Sintering behavior of ultra-thin 3D printed alumina lattice structures. Acta Materialia, 2023, 250, 118865.	7.9	3
476	Surfactant effect on DLP fabrication of silica fibre preforms. Ceramics International, 2023, 49, 15689-15699.	4.8	2
477	Recent developments in digital light processing 3D-printing techniques for microfluidic analytical devices. Journal of Chromatography A, 2023, 1692, 463842.	3.7	21
478	In Situ Actuators with Gallium Liquid Metal Alloys and Polypyrrole-Coated Electrodes. ACS Applied Materials & Interfaces, 2023, 15, 10109-10122.	8.0	6
479	A comprehensive review on additive manufacturing of glass: Recent progress and future outlook. Materials and Design, 2023, 227, 111736.	7.0	7
480	Effect of particle size on additive manufacturing of complex architecture of silicon carbide. Ceramics International, 2023, 49, 17396-17404.	4.8	1
481	Angle-independent solar radiation capture by 3D printed lattice structures for efficient photoelectrochemical water splitting. Materials Horizons, 2023, 10, 1806-1815.	12.2	2
482	3D Printing of Dental Restorative Composites and Ceramics – Toward the Next Frontier in Restorative Dentistry. Journal of the California Dental Association, 2019, 47, 653-665.	0.1	3
483	Laser-Induced Cavitation-Assisted True 3D Nano-Sculpturing of Hard Materials. Small, 2023, 19, .	10.0	7
484	Fabrication of Glass Microchannels Using Plant Roots and Nematodes. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2022, 35, 219-223.	0.3	0
485	Biomolecular glass with amino acid and peptide nanoarchitectonics. Science Advances, 2023, 9, .	10.3	27
486	Two-Photon Polymerization Lithography for Optics and Photonics: Fundamentals, Materials, Technologies, and Applications. Advanced Functional Materials, 2023, 33, .	14.9	39
487	Biofunctionalized 3D printed structures for biomedical applications: A critical review of recent advances and future prospects. Progress in Materials Science, 2023, 137, 101124.	32.8	6
488	Fiber-Fed 3D Printing of Germanate Glass Optics. Photonics, 2023, 10, 378.	2.0	2
489	Smart Manufacturing. Advances in Computational Intelligence and Robotics Book Series, 2023, , 278-300.	0.4	1
490	From resin formulation and process parameters to the final mechanical properties of 3D printed acrylate materials. MRS Communications, 2023, 13, 357-377.	1.8	11
491	3D Printing of Luminescent Glass with Controlled Distribution of Emission Colors for Multi-Dimensional Optical Anti-Counterfeiting. Laser and Photonics Reviews, 2023, 17, .	8.7	3
492	Interfacial Regulation for 3D Printing based on Slice-Based Photopolymerization. Advanced Materials, 2023, 35, .	21.0	3

#	ARTICLE	IF	CITATIONS
493	Fabrication of Thermoresponsive and Multimaterial Hydrogel Sheets by Spatially Controlled Aspiration and Interconnection of Microgel Building Blocks. <i>Advanced Materials Technologies</i> , 2023, 8, .	5.8	1
494	Chromaticity-Tunable All-Inorganic Color Converters Fabricated by 3D Printing for Modular Plant Growth Lighting Devices. <i>ACS Applied Materials & Interfaces</i> , 2023, 15, 23527-23537.	8.0	3
495	3D printing facades: Design, fabrication, and assessment methods. <i>Automation in Construction</i> , 2023, 152, 104918.	9.8	13
496	Three-dimensional printing of silica glass with sub-micrometer resolution. <i>Nature Communications</i> , 2023, 14, .	12.8	10
497	Injection Molding of Encapsulated Diffractive Optical Elements. <i>Micromachines</i> , 2023, 14, 1223.	2.9	1
499	Thermal conductivity of glasses: first-principles theory and applications. <i>Npj Computational Materials</i> , 2023, 9, .	8.7	11
500	Effect of H ₂ O ₂ Treatment on Mechanical and Mechanochemical Properties of Fused Silica. <i>Applied Sciences (Switzerland)</i> , 2023, 13, 7636.	2.5	0
501	Amorphization Toughening Induced by Microcracks in SiO ₂ Thin Films. <i>Journal of Physical Chemistry C</i> , 2023, 127, 8825-8832.	3.1	0
502	Mechano-luminescence Behavior of Lanthanide-Doped Fluoride Nanocrystals for Three-Dimensional Stress Imaging. <i>ACS Nano</i> , 2023, 17, 9543-9551.	14.6	6
503	Capillary-driven microfluidics: impacts of 3D manufacturing on bioanalytical devices. <i>Analyst, The</i> , 2023, 148, 2657-2675.	3.5	4
504	Recent Advances of Transition Metal Complexes for Photopolymerization and 3D Printing under Visible Light. <i>Advanced Functional Materials</i> , 0, , .	14.9	1
505	Casting and recycling of insoluble, labile single-crystal coordination polymer through reversible solid-liquid-solid transition. <i>Matter</i> , 2023, 6, 3394-3412.	10.0	2
506	A sinterless, low-temperature route to 3D print nanoscale optical-grade glass. <i>Science</i> , 2023, 380, 960-966.	12.6	34
507	Additive Manufacturing of Advanced Ceramics Using Preceramic Polymers. <i>Materials</i> , 2023, 16, 4636.	2.9	1
508	CO ₂ -Induced Modulation of Si-O Bonds for Low Temperature Plastic Deformation of Amorphous Silica Nanoparticles with Enhanced Photoluminescence. <i>Energy and Environmental Materials</i> , 0, , .	12.8	0
509	Novel green chemical mechanical polishing of fused silica through designing synergistic CeO ₂ /h-BN abrasives with lubricity. <i>Applied Surface Science</i> , 2023, 637, 157978.	6.1	17
510	Digital glass forming of photonics. <i>Optical Engineering</i> , 2023, 62, .	1.0	0
511	3D printed optics and photonics: Processes, materials and applications. <i>Materials Today</i> , 2023, 69, 107-132.	14.2	5

#	ARTICLE	IF	CITATIONS
512	Transparent and Robust Superhydrophobic Structure on Silica Glass Processed with Microstereolithography Printing. ACS Applied Materials & Interfaces, 2023, 15, 38132-38142.	8.0	2
513	High-aspect-ratio three-dimensional polymer and metallic microstructure microfabrication using two-photon polymerization. Biomedical Microdevices, 2023, 25, .	2.8	2
514	3D printing assemble technology toward advanced photocatalysis. Materials Today Nano, 2023, 24, 100385.	4.6	0
515	Precise and Rapid Replication of Complex Shaped Fused Silica Optics. Advanced Optical Materials, 2023, 11, .	7.3	1
516	Rare earth-doped glass whispering gallery mode micro-lasers. European Physical Journal Plus, 2023, 138, .	2.6	3
517	Issues of development of research equipment elements by FDM printing. E3S Web of Conferences, 2023, 402, 03054.	0.5	0
519	Tailored monolithic catalyst and reactor by direct photo-curing 3D printing for oxidative desulfurization of fuels. Separation and Purification Technology, 2023, 327, 124826.	7.9	0
520	Er-doped silica fiber laser made by powder-based additive manufacturing. Optica, 0, , .	9.3	0
521	Additive, subtractive and formative manufacturing of glass-based functional micro/nanostructures: a comprehensive review. Materials and Design, 2023, , 112285.	7.0	2
522	A review of materials used in tomographic volumetric additive manufacturing. MRS Communications, 2023, 13, 764-785.	1.8	5
523	4D Additive Subtractive Manufacturing of Shape Memory Ceramics. Advanced Materials, 2023, 35, .	21.0	5
524	Recyclable photoresins for light-mediated additive manufacturing towards Loop 3D printing. Nature Communications, 2023, 14, .	12.8	4
525	Geometrical Accuracy Analysis of Ti-6Al-4V Trusses Manufactured by Electron Beam Melting Process. Metals, 2023, 13, 1454.	2.3	0
526	Low-temperature 3D printing of transparent silica glass microstructures. Science Advances, 2023, 9, .	10.3	2
527	Predicting the Fracture Propensity of Amorphous Silica Using Molecular Dynamics Simulations and Machine Learning. International Journal of Applied Mechanics, 0, , .	2.2	0
528	Laser Based 3D Printing of Fused Silica Glass. , 2023, , .		0
529	Two-photon lithography for integrated photonic packaging. , 2023, 4, 1.		0
530	Bionic Micro Texture Duplication and RE ³⁺ Space Selective Doping of Unclonable Silica Nanocomposites for Multilevel Encryption and Intelligent Authentication. Advanced Materials, 2023, 35, .	21.0	0

#	ARTICLE	IF	CITATIONS
531	Optical force brush enabled free-space painting of 4D functional structures. Science Advances, 2023, 9, .	10.3	1
532	Two-photon polymerization of silica glass diffractive micro-optics with minimal lateral shrinkage. Optics Express, 2023, 31, 36037.	3.4	0
533	Effect of sintering condition on the attenuation of silica glasses fabricated by additive manufacturing. Ceramics International, 2023, 49, 39400-39408.	4.8	0
534	3D printing of inorganic nanomaterials by photochemically bonding colloidal nanocrystals. Science, 2023, 381, 1468-1474.	12.6	9
535	Fabrication and environmental applications of glass microspheres: A review. Ceramics International, 2023, 49, 39745-39759.	4.8	0
536	Grid search hyperparameter tuning in additive manufacturing processes. Manufacturing Letters, 2023, 35, 1031-1042.	2.2	4
537	3D-printed porous Al₂O₃ membrane coated with hydrophilic modified titanium dioxide particles for large-flux oil/water separation. Advances in Applied Ceramics, 2023, 122, 364-374.	1.1	1
538	Additive Manufacturing of Transparent Multi-Component Nanoporous Glasses. Advanced Science, 2023, 10, .	11.2	0
539	Room-Temperature Molding of Complex-Shaped Transparent Fused Silica Lenses. Advanced Science, 2023, 10, .	11.2	0
540	Vat Photopolymerization. Springer Handbooks, 2023, , 349-370.	0.6	0
541	Production Process Chain from CAD to Part. Springer Handbooks, 2023, , 233-251.	0.6	0
542	Dispersion of silica nanoparticles in water/ethanol/PEG mixtures for stimuli-responsive aggregation to prepare improved fused silica glass. Ceramics International, 2024, 50, 2340-2349.	4.8	1
543	Imaging/nonimaging microoptical elements and stereoscopic systems based on femtosecond laser direct writing. , 2023, 4, 1.		1
544	An Ultraviolet-Lithography-Assisted Sintering Method for Glass Microlens Array Fabrication. Micromachines, 2023, 14, 2055.	2.9	0
546	è¿‘èµ-â...%â¿œç”âž‘ç²’âé-“â...%æžŕæ©æ€\$ZrO<sub>2</sub>>2</sub>>ã,1ãf©ãfªãf1/4ã®è”è”. Journal of the Society of Powder Technology Japan, 2023, 60, 103-110.		0
547	Facile Fabrication of Silica Glass Embedded with NiO Nanoparticles by 3D Printing Technology and its Optical Nonlinearity. Advanced Photonics Research, 2024, 5, .	3.6	0
548	Preparation of transparent Bi₂O₃-ZnO-B₂O₃ glass by conventional sintering at low temperatures. Journal of the American Ceramic Society, 2024, 107, 2172-2184.	3.8	0
549	Revealing “invisible” subsurface structural change/damage in silicate glass made by “nearly-elastic contact” with a spherical smooth surface. Acta Materialia, 2024, 264, 119571.	7.9	2

#	ARTICLE	IF	CITATIONS
550	Radiant Reinforcement: Enhancing Composite Polymer Magnet Materials Mechanical Properties with UVC Medical Disinfection. <i>Polymers</i> , 2023, 15, 4551.	4.5	0
551	Fabrication and analysis of printable fused-silica based double paddle oscillators. <i>Sensors and Actuators A: Physical</i> , 2023, 363, 114783.	4.1	0
552	Elastoplastic contact model of pitch-based rough surface and its polishing characteristics. <i>Optics Express</i> , 2023, 31, 42150.	3.4	0
553	3D soft glass printing of preforms for microstructured optical fibers. <i>Additive Manufacturing</i> , 2024, 79, 103899.	3.0	0
554	Organosilicon-grafted silica nanoparticles for vat photopolymerization: Evolution from organic/inorganic hybrid materials to ceramics. <i>Open Ceramics</i> , 2024, 17, 100513.	2.0	0
555	Development of a glass-based imaging phantom to model the optical properties of human tissue. <i>Biomedical Optics Express</i> , 0, , .	2.9	0
556	Modeling and optimization of the sagging process for large-size and high-purity silica glass synthesis. <i>International Journal of Applied Glass Science</i> , 2024, 15, 167-181.	2.0	0
557	Atomic surface of quartz glass induced by photocatalytic green chemical mechanical polishing using the developed $\text{SiO}_2/\text{TiO}_2$ core-shell slurry. <i>Nanoscale Advances</i> , 2024, 6, 1380-1391.	4.6	0
558	Fabrication of silica glass for UV-transmission by gel-casting method. <i>Optical Materials</i> , 2024, 147, 114636.	3.6	0
559	Solid-state, liquid-free ion-conducting elastomers: rising-star platforms for flexible intelligent devices. <i>Materials Horizons</i> , 2024, 11, 1152-1176.	12.2	0
560	Exploring the advantages and applications of nanocomposites produced via vat photopolymerization in additive manufacturing: A review. <i>Advanced Composites and Hybrid Materials</i> , 2024, 7, .	21.1	4
561	Isotropic sintering shrinkage of 3D glass-ceramic nanolattices: backbone preforming and mechanical enhancement. <i>International Journal of Extreme Manufacturing</i> , 2024, 6, 025003.	12.7	1
562	Mixed alkaline earth effect on nanomechanical properties of glass. <i>Journal of Non-Crystalline Solids</i> , 2024, 626, 122808.	3.1	0
563	Fabrication of silica glass microchannel reflectors by 3D printing and UV-curing. , 2023, , .		0
564	Development of core-shell $\text{SiO}_2/\text{TiO}_2$ abrasives and novel photocatalytic chemical machinal polishing for atomic surface of fused silica. <i>Applied Surface Science</i> , 2024, 652, 159293.	6.1	1
565	Revealing a spontaneous two-stage process in femtosecond laser-induced fully-oxidized nanostructures. <i>Applied Surface Science</i> , 2024, 653, 159349.	6.1	1
566	Reduction of injection molded silica glass defects and enhancement of glass quality <i>via</i> water debinding. <i>Materials Chemistry Frontiers</i> , 2024, 8, 1400-1408.	5.9	0
567	Development of transparent, particle-loaded photoresins for volumetric additive manufacturing of silica glass. <i>Journal of Polymer Science</i> , 0, , .	3.8	0

#	ARTICLE	IF	CITATIONS
568	Simultaneous Enhancement of Thermal Insulation and Impact Resistance in Transparent Bulk Composites. <i>Advanced Materials</i> , 2024, 36, .	21.0	0
569	Vat Photopolymerization versus Conventional Colloidal Processing Methods in Structural Ceramics: Progress, Challenges, and Future Perspectives. , 2024, 3, 200110.		0
570	Technology for organ-on-chip applications. , 2024, , 33-70.		0
571	Low-Temperature Additive Manufacturing of Silica Glass Composites. , 2024, 6, 720-728.		0
572	A simulation model of selective laser melting (SLM) of glass silica monolayer. <i>International Journal of Advanced Manufacturing Technology</i> , 2024, 131, 381-391.	3.0	0
573	Effects of a UV absorber in silica-loaded resin on DLP silica fiber preform fabrication. <i>Applied Optics</i> , 2024, 63, D7.	1.8	0
574	Temperature-driven controllable deformation in 4D printing through programmable heterogeneous laminated bilayer structure. <i>International Journal of Advanced Manufacturing Technology</i> , 2024, 131, 1241-1253.	3.0	0
575	Now in 3D: A simple photochemistry enables the printing of inorganic materials into complex 3D structures. <i>Science Bulletin</i> , 2024, 69, 997-999.	9.0	0
576	Printing of In Situ Functionalized Mesoporous Silica with Digital Light Processing for Combinatorial Sensing. <i>Small</i> , 0, , .	10.0	0
578	Multimaterial Volumetric Printing of Silica-Based Glasses. <i>Advanced Materials Technologies</i> , 2024, 9, .	5.8	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
582	Photopolymerized 3D Printing Materials for Optical Elements. <i>Advanced Optical Materials</i> , 2024, 12, .	7.3	0
583	3D printing of glass aspheric lens by digital light processing. <i>Journal of Manufacturing Processes</i> , 2024, 116, 40-47.	5.9	0
584	Advances in industry 4.0: from intelligentization to the industrial metaverse. <i>International Journal on Interactive Design and Manufacturing</i> , 0, , .	2.2	0
585	Thermal transport of glasses via machine learning driven simulations. <i>Frontiers in Materials</i> , 0, 11, .	2.4	0
586	Pressureless sintered lithium disilicate glass-ceramics: Influence of particle size and crystallization state. <i>Journal of the European Ceramic Society</i> , 2024, 44, 6135-6146.	5.7	0

#	ARTICLE	IF	CITATIONS
587	Atomic surface induced by novel green chemical mechanical polishing for aspheric thin-walled crucibles with large diameters. Journal of Manufacturing Processes, 2024, 117, 59-70.	5.9	0
588	3D Printing Technology: Role in Safeguarding Food Security. Analytical Chemistry, 2024, 96, 4333-4342.	6.5	0