

# CITATION REPORT

List of articles citing

3D printing of polymer matrix composites: A review and prospective

DOI: 10.1016/j.compositesb.2016.11.034

Composites Part B: Engineering, 2017, 110, 442-458.

**Source:** <https://exaly.com/paper-pdf/67657981/citation-report.pdf>

**Version:** 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
1934	Editorial. <b>2016</b> , 5, 256-258		
1933	Toughening of polyamide 11 with carbon nanotubes for additive manufacturing. <b>2017</b> , 12, 235-240		32
1932	Recent trends and developments in dissolving pulp production and application. <b>2017</b> , 24, 2347-2365		60
1931	Mechanical properties of periodic interpenetrating phase composites with novel architected microstructures. <b>2017</b> , 176, 9-19		68
1930	Experimental characterization and micrography of 3D printed PLA and PLA reinforced with short carbon fibers. <i>Composites Part B: Engineering</i> , <b>2017</b> , 124, 88-100	10	288
1929	Characterization of LiCoO <sub>2</sub> /multiwall carbon nanotubes with garnet-type electrolyte fabricated by spark plasma sintering for bulk-type all-solid-state batteries. <i>Composites Part B: Engineering</i> , <b>2017</b> , 124, 242-249	10	14
1928	Fabrication of continuous carbon, glass and Kevlar fibre reinforced polymer composites using additive manufacturing. <b>2017</b> , 16, 146-152		314
1927	Creep behaviour of polylactic acid reinforced by woven hemp fabric. <i>Composites Part B: Engineering</i> , <b>2017</b> , 124, 16-22	10	30
1926	Study of graphene oxide-based 3D printable composites: Effect of the in situ reduction. <i>Composites Part B: Engineering</i> , <b>2017</b> , 124, 9-15	10	73
1925	Additive manufacturing and characterization of complex Al <sub>2</sub> O <sub>3</sub> parts based on a novel stereolithography method. <b>2017</b> , 14, 836-844		23
1924	Membrane fouling in a submerged membrane bioreactor: New method and its applications in interfacial interaction quantification. <b>2017</b> , 241, 406-414		30
1923	Graphene and functionalized graphene: Extraordinary prospects for nanobiocomposite materials. <i>Composites Part B: Engineering</i> , <b>2017</b> , 121, 34-57	10	108
1922	Electrical actuation and shape memory behavior of polyurethane composites incorporated with printed carbon nanotube layers. <b>2017</b> , 141, 8-15		72
1921	Three-Dimensional Printed Thermal Regulation Textiles. <b>2017</b> , 11, 11513-11520		165
1920	Design of composite systems for rotary wear applications. <b>2017</b> , 134, 281-292		5
1919	Review on 3D Prototyping of Damage Tolerant Interdigitating Brick Arrays of Nacre. <b>2017</b> , 56, 10516-10525		37
1918	Capturing PM <sub>2.5</sub> Emissions from 3D Printing via Nanofiber-based Air Filter. <b>2017</b> , 7, 10366		37

1917	New conversion process for fabricating a ceramic core by a 3D printing technique. <b>2017</b> , 332, 527-532		9
1916	A review on 3D printed smart devices for 4D printing. <b>2017</b> , 4, 373-383		92
1915	Characterization of residual stress and deformation in additively manufactured ABS polymer and composite specimens. <b>2017</b> , 150, 102-110		64
1914	Fabrication of Polydimethylsiloxane films with special surface wettability by 3D printing. <i>Composites Part B: Engineering</i> , <b>2017</b> , 129, 58-65	10	38
1913	Polymers for 3D Printing and Customized Additive Manufacturing. <b>2017</b> , 117, 10212-10290		1521
1912	Review of 4D printing materials and their properties. <b>2017</b> , 4, 349-357		85
1911	Design methodology for porous composites with tunable thermal expansion produced by multi-material topology optimization and additive manufacturing. <i>Composites Part B: Engineering</i> , <b>2017</b> , 131, 21-29	10	76
1910	Preliminary study of PLA wire colour effects on geometric characteristics of parts manufactured by FDM. <b>2017</b> , 13, 924-931		10
1909	Facile one-pot exfoliation and integration of 2D layered materials by dispersion in a photocurable polymer precursor. <b>2017</b> , 9, 10590-10595		9
1908	Epoxy-copper composites with gradation of filler content. <i>Composites Part B: Engineering</i> , <b>2017</b> , 127, 36-43	10	6
1907	Material Extrusion of Continuous Fiber Reinforced Plastics Using Commingled Yarn. <b>2017</b> , 66, 317-322		31
1906	Engineering Thermoplastics for Additive Manufacturing: A Critical Perspective with Experimental Evidence to Support Functional Applications. <b>2017</b> , 15, 10-18		49
1905	Polymer/Carbon Nanotubes (CNT) Nanocomposites Processing Using Additive Manufacturing (Three-Dimensional Printing) Technique: An Overview. <b>2017</b> , 5, 40		43
1904	A Particle Element Approach for Modelling the 3D Printing Process of Fibre Reinforced Polymer Composites. <b>2017</b> , 1, 10		19
1903	3D Printing/Interfacial Polymerization Coupling for the Fabrication of Conductive Hydrogel. <b>2018</b> , 303, 1700356		25
1902	High-strength epoxy nanocomposites for 3D printing. <b>2018</b> , 160, 9-20		82
1901	Electromagnetic interference shielding effectiveness of ABS carbon-based composites manufactured via fused deposition modelling. <b>2018</b> , 15, 70-80		58
1900	Structural and chemical changes of cellulose fibres under low energy ion implantations. <b>2018</b> , 355, 191-199		6

1899	Polypropylene/Cellulose Composites for Material Extrusion Additive Manufacturing. <b>2018</b> , 303, 1800037		44
1898	Effect of different filler content of ABS-inc ferrite composites on mechanical, electrical and thermal conductivity by using 3D printing. <b>2018</b> , 24, E217-E229		9
1897	Morphological and mechanical properties of graphene-reinforced PMMA nanocomposites using a multiscale analysis. <b>2018</b> , 150, 107-120		14
1896	Multifaceted polymeric materials in three-dimensional processing (3DP) technologies: Current progress and prospects. <b>2018</b> , 29, 1586-1602		5
1895	Highly Stretchable and Wearable Strain Sensor Based on Printable Carbon Nanotube Layers/Polydimethylsiloxane Composites with Adjustable Sensitivity. <b>2018</b> , 10, 7371-7380		126
1894	Bionic Prototyping of Honeycomb Patterned Polymer Composite and Its Engineering Application. <b>2018</b> , 57, 1828-1844		19
1893	Fused filament fabrication of fiber-reinforced polymers: A review. <b>2018</b> , 21, 1-16		272
1892	Graphene oxide incorporated functional materials: A review. <i>Composites Part B: Engineering</i> , <b>2018</b> , 145, 270-280	10	126
1891	Exploiting negative Poisson's ratio to design 3D-printed composites with enhanced mechanical properties. <b>2018</b> , 142, 247-258		139
1890	Tensile properties, void contents, dispersion and fracture behaviour of 3D printed carbon nanofiber reinforced composites. <b>2018</b> , 37, 381-395		54
1889	Additive manufacturing (3D printing): A review of materials, methods, applications and challenges. <i>Composites Part B: Engineering</i> , <b>2018</b> , 143, 172-196	10	2654
1888	Preparation and characterization of fluoride calcium silicate composites with multi-biofunction for clinical application in dentistry. <i>Composites Part B: Engineering</i> , <b>2018</b> , 143, 243-249	10	15
1887	Selective electroplating of 3D printed parts. <b>2018</b> , 20, 164-172		32
1886	Continuous emulsion copolymerization processes at mild conditions in a 3D-printed tubular bended reactor. <b>2018</b> , 338, 311-322		17
1885	First observation of the effect of the layer printing sequence on the molecular structure of three-dimensionally printed polymer, as shown by in-plane capacitance measurement. <i>Composites Part B: Engineering</i> , <b>2018</b> , 140, 78-82	10	11
1884	3D printing of carbon fiber-filled conductive silicon rubber. <b>2018</b> , 142, 11-21		50
1883	Electrical and Mechanical Properties of 3D-Printed Graphene-Reinforced Epoxy. <b>2018</b> , 70, 292-297		47
1882	Fully Printed Flexible Smart Hybrid Hydrogels. <b>2018</b> , 28, 1705365		89

1881	Recent Advances on 3D Printing Technique for Thermal-Related Applications. <b>2018</b> , 20, 1700876		26
1880	Effect of wood content in FDM filament on properties of 3D printed parts. <b>2018</b> , 14, 135-140		118
1879	Mechanical characterization of 3D-printed polymers. <b>2018</b> , 20, 44-67		527
1878	Synthesis and Properties of Polyetheretherketones for 3D Printing. <b>2018</b> , 49, 414-419		19
1877	Fabrication of Multiple-Layered Hydrogel Scaffolds with Elaborate Structure and Good Mechanical Properties via 3D Printing and Ionic Reinforcement. <b>2018</b> , 10, 18338-18350		37
1876	A self-healing, adaptive and conductive polymer composite ink for 3D printing of gas sensors. <b>2018</b> , 6, 6200-6207		43
1875	Interlaminar bonding performance of 3D printed continuous fibre reinforced thermoplastic composites using fused deposition modelling. <b>2018</b> , 68, 415-423		161
1874	Characterization, functionality and application of siliceous sponge spicules additive-based manufacturing biopolymer composites. <b>2018</b> , 22, 13-20		12
1873	Impact damage resistance of 3D printed continuous fibre reinforced thermoplastic composites using fused deposition modelling. <i>Composites Part B: Engineering</i> , <b>2018</b> , 148, 93-103	10	180
1872	Three-Dimensional Printing of Cytocompatible, Thermally Conductive Hexagonal Boron Nitride Nanocomposites. <b>2018</b> , 18, 3488-3493		67
1871	Piezoelectric Flexible LCP/BZT Composites for Sensor Applications at Elevated Temperatures. <b>2018</b> , 14, 113-123		13
1870	Combining 3D Printing with Electrospinning for Rapid Response and Enhanced Designability of Hydrogel Actuators. <b>2018</b> , 28, 1800514		77
1869	Tailoring the interfaces in glass fiber-reinforced photopolymer composites. <b>2018</b> , 141, 221-231		15
1868	Recent advances and remaining challenges for polymeric nanocomposites in healthcare applications. <b>2018</b> , 80, 1-38		113
1867	Nano-size ceramic reinforced 3D biopolymer scaffolds: Tribomechanical testing and stem cell activity. <b>2018</b> , 202, 651-659		12
1866	Large scale additive manufacturing of eco-composites. <b>2018</b> , 11, 375-380		9
1865	Laser deposition-additive manufacturing of TiB-Ti composites with novel three-dimensional quasi-continuous network microstructure: Effects on strengthening and toughening. <i>Composites Part B: Engineering</i> , <b>2018</b> , 133, 91-100	10	94
1864	The mechanical design of a hybrid intelligent hinge with shape memory polymer and spring sheet. <i>Composites Part B: Engineering</i> , <b>2018</b> , 134, 1-8	10	10

1863	Formulation of 3D Printed Tablet for Rapid Drug Release by Fused Deposition Modeling: Screening Polymers for Drug Release, Drug-Polymer Miscibility and Printability. <b>2018</b> , 107, 390-401		139
1862	A new constitutive model for polymeric matrices: Application to biomedical materials. <i>Composites Part B: Engineering</i> , <b>2018</b> , 139, 117-129	10	28
1861	Interfacial bonding strength of short carbon fiber/acrylonitrile-butadiene-styrene composites fabricated by fused deposition modeling. <i>Composites Part B: Engineering</i> , <b>2018</b> , 137, 51-59	10	96
1860	Thermal and mechanical properties of 3D printed boron nitride /ABS composites. <b>2018</b> , 25, 1205-1217		40
1859	Smartphone based scalable reverse engineering by digital image correlation. <b>2018</b> , 102, 126-135		5
1858	Enhancement of char-forming and water resistance on ABS modified by poly(4-nitrophenoxy)-phosphazene. <b>2018</b> , 135, 45988		0
1857	Characterization of 3D printed long fibre reinforced composites. <b>2018</b> , 185, 537-548		209
1856	Preparation and characterization of 3D printed continuous carbon fiber reinforced thermosetting composites. <b>2018</b> , 65, 29-34		141
1855	Design and Control of a Two-wheeled Self-balancing Robot made in 3D Printing. <b>2018</b> ,		1
1854	Research Progress of Preparation Technology of Nano Copper Powder for 3D Printing. <b>2018</b> , 777, 150-157		
1853	Stereolithography. <b>2018</b> ,		23
1852	3D Printing Temporary Crown and Bridge by Temperature Controlled Mask Image Projection Stereolithography. <b>2018</b> , 26, 1023-1033		25
1851	Modelling of Functional Gradient Porous Structure and its Fabrication using Additive Manufacturing Process. <b>2018</b> , 5, 24558-24567		1
1850	Additive Manufacturing for Micro Tooling and Micro Part Rapid Prototyping. <b>2018</b> , 289-313		1
1849	Morphological, Rheological and Electromagnetic Properties of Nanocarbon/Poly(lactic) Acid for 3D Printing: Solution Blending vs. Melt Mixing. <b>2018</b> , 11,		23
1848	Fabrication of ABS/Graphene Oxide Composite Filament for Fused Filament Fabrication (FFF) 3D Printing. <b>2018</b> , 2018, 1-9		32
1847	Preparation and Characterization of Poly(butylene succinate)/Polylactide Blends for Fused Deposition Modeling 3D Printing. <b>2018</b> , 3, 14309-14317		39
1846	Incorporation of Carbon Nanofillers Tunes Mechanical and Electrical Percolation in PHBV:PLA Blends. <b>2018</b> , 10,		7

1845	Effect of layer thickness on flexural properties of PLA (PolyLactid Acid) by 3D printing. <b>2018</b> , 1130, 012017	13
1844	A path for lignin valorization via additive manufacturing of high-performance sustainable composites with enhanced 3D printability. <b>2018</b> , 4, eaat4967	74
1843	Recent Development of Flexible and Stretchable Antennas for Bio-Integrated Electronics. <b>2018</b> , 18,	28
1842	Recent Advances of Novel Materials for 3D/4D Printing in Biomedical Applications. <b>2018</b> , 239-271	1
1841	Direct 3D Printing of Graphene Nanoplatelet/Silver Nanoparticle-Based Nanocomposites for Multiaxial Piezoresistive Sensor Applications. <b>2018</b> , 4, 1800500	14
1840	Mechanical and microwave absorption properties of 3D-printed Li <sub>0.44</sub> Zn <sub>0.2</sub> Fe <sub>2.36</sub> O <sub>4</sub> /polylactic acid composites using fused deposition modeling. <b>2018</b> , 29, 19296-19307	12
1839	A Review of the Synthesis and Applications of Polymer Nanoclay Composites. <b>2018</b> , 8, 1696	127
1838	Three-Dimensional Printing of a Complete Lithium Ion Battery with Fused Filament Fabrication. <b>2018</b> ,	26
1837	Stereolithography of SiOC Polymer-Derived Ceramics Filled with SiC Micronwhiskers. <b>2018</b> , 20, 1800593	29
1836	Exploration of specimen geometry and tab configuration for tensile testing exploiting the potential of 3D printing freeform shape continuous carbon fibre-reinforced nylon matrix composites. <b>2018</b> , 71, 318-328	32
1835	Investigation of ABS-rice straw composite feedstock filament for FDM. <b>2018</b> , 24, 1067-1075	39
1834	Nondestructive evaluation method for standardization of fused filament fabrication based additive manufacturing. <b>2018</b> , 24, 154-165	6
1833	Cork/PLA composite filaments for fused deposition modelling. <b>2018</b> , 168, 230-237	81
1832	High Performance of Covalently Grafting onto Collagen in The Presence of Graphene Oxide. <b>2018</b> , 8,	5
1831	Pore analysis and mechanical performance of selective laser sintered objects. <b>2018</b> , 24, 307-315	22
1830	Three-Dimensional Printed Photoluminescent Polymeric Waveguides. <b>2018</b> , 10, 39319-39326	24
1829	Strength and Performance Enhancement of Multilayers by Spatial Tailoring of Adherend Compliance and Morphology via Multimaterial Jetting Additive Manufacturing. <b>2018</b> , 8, 13592	23
1828	An efficient statistical approach to design 3D-printed metamaterials for mimicking mechanical properties of soft biological tissues. <b>2018</b> , 24, 341-352	6

1827	Design and Validation of a Lightweight Adaptive and Compliant Locking Mechanism for an Ankle Prosthesis. <b>2018,</b>		2
1826	Hybrid Materials for Functional 3D Printing. <b>2018, 5, 1800996</b>		24
1825	Electrical property validation of percolation modeling in different polymer structures of carbon-based nanocomposites. <b>2018, 17, 153-160</b>		8
1824	Processing Nanocomposites Based on Engineering Polymers: Polyamides and Polyimides. <b>2018, 27-73</b>		
1823	Interfacial performance and fracture patterns of 3D printed continuous carbon fiber with sizing reinforced PA6 composites. <b>2018, 114, 368-376</b>		60
1822	Additive Manufacturing of Polymer Matrix Composites. <b>2018,</b>		13
1821	Three-Dimensional-Printed Sustainable Biochar-Recycled PET Composites. <b>2018, 6, 13940-13948</b>		41
1820	Optimization of Structures Made From Composites With Elliptical Inclusions. <b>2018, 85,</b>		1
1819	In-situ synthesis of aluminum/nano-quasicrystalline Al-Fe-Cr composite by using selective laser melting. <i>Composites Part B: Engineering</i> , <b>2018, 155, 382-390</b>	10	30
1818	Effect of heat treatment on the microstructure and mechanical properties of Ti6Al4V gradient structures manufactured by selective laser melting. <b>2018, 736, 288-297</b>		39
1817	Electromagnetic and mechanical properties of carbonyl iron powders-PLA composites fabricated by fused deposition modeling. <b>2018, 5, 115303</b>		13
1816	Processing and Wear Behaviour of 3D Printed PLA Reinforced with Biogenic Carbon. <b>2018, 2018, 1-11</b>		27
1815	Validation study on the theory of composites by using three-dimensional printing technology. <b>2018, 37, 1004-1010</b>		3
1814	Polymer Nanocomposite-Based Strain Sensors with Tailored Processability and Improved Device Integration. <b>2018, 1, 3015-3025</b>		23
1813	3D-printed PEEK-carbon fiber (CF) composites: Structure and thermal properties. <b>2018, 164, 319-326</b>		120
1812	Additive Manufacturing for Tissue Engineering. <b>2018, 3-54</b>		5
1811	Additive manufacturing technology and its implementation in construction as an eco-innovative solution. <b>2018, 93, 1-11</b>		114
1810	In Situ Nanoparticle Embedding for Authentication of Epoxy Composites. <b>2018, 30, e1801523</b>		19

1809	3D-printed miniaturized fluidic tools in chemistry and biology. <b>2018</b> , 106, 37-52		41
1808	Novel 3D porous biocomposite scaffolds fabricated by fused deposition modeling and gas foaming combined technology. <i>Composites Part B: Engineering</i> , <b>2018</b> , 152, 151-159	10	63
1807	Performance-driven 3D printing of continuous curved carbon fibre reinforced polymer composites: A preliminary numerical study. <i>Composites Part B: Engineering</i> , <b>2018</b> , 151, 256-264	10	52
1806	In-vitro blood-brain barrier modeling: A review of modern and fast-advancing technologies. <b>2018</b> , 38, 1667-1681		69
1805	Effect of Ultrasonic Vibration on Mechanical Properties of 3D Printing Non-Crystalline and Semi-Crystalline Polymers. <b>2018</b> , 11,		27
1804	Effect of toughening agents on the properties of poplar wood flour/poly (lactic acid) composites fabricated with Fused Deposition Modeling. <b>2018</b> , 107, 34-45		37
1803	A 3D-Printable Polymer-Metal Soft-Magnetic Functional Composite-Development and Characterization. <b>2018</b> , 11,		52
1802	Microscale Architecture in Biomaterial Scaffolds for Spatial Control of Neural Cell Behavior. <b>2018</b> , 5,		9
1801	Deformable liquid metal polymer composites with tunable electronic and mechanical properties. <b>2018</b> , 33, 2443-2453		26
1800	Close-looped recycling of polylactic acid used in 3D printing: An experimental investigation and life cycle assessment. <b>2018</b> , 197, 1046-1055		78
1799	Bio-Functional Design, Application and Trends in Metallic Biomaterials. <b>2017</b> , 19,		28
1798	Development of New Hybrid Acrylic/Epoxy DLP-3D Printable Materials. <b>2018</b> , 3, 29		22
1797	Additive Manufacturing of Metallic and Ceramic Components by the Material Extrusion of Highly-Filled Polymers: A Review and Future Perspectives. <b>2018</b> , 11,		197
1796	3D-Printed Chips: Compatibility of Additive Manufacturing Photopolymeric Substrata with Biological Applications. <b>2018</b> , 9,		62
1795	Fused Deposition Modeling of ABS-Barium Titanate Composites: A Simple Route towards Tailored Dielectric Devices. <b>2018</b> , 10,		39
1794	Addressing Unmet Clinical Needs with 3D Printing Technologies. <b>2018</b> , 7, e1800417		49
1793	The influence of nanostructure on the mechanical properties of 3D printed polylactide/nanoclay composites. <i>Composites Part B: Engineering</i> , <b>2018</b> , 152, 160-168	10	16
1792	A GPU-based coupled SPH-DEM method for particle-fluid flow with free surfaces. <b>2018</b> , 338, 548-562		49

1791	An investigation into 3D printing of fibre reinforced thermoplastic composites. <b>2018</b> , 22, 176-186	281
1790	Zone-dependent mechanical properties of human articular cartilage obtained by indentation measurements. <b>2018</b> , 29, 57	44
1789	Functional Polymers and Nanocomposites for 3D Printing of Smart Structures and Devices. <b>2018</b> , 10, 17489-17507	113
1788	Integrative hinge based on shape memory polymer composites: Material, design, properties and application. <b>2018</b> , 206, 164-176	43
1787	Creep behavior analysis of additively manufactured fiber-reinforced components. <b>2018</b> , 99, 1225-1234	30
1786	Enhanced fracture toughness in architected interpenetrating phase composites by 3D printing. <b>2018</b> , 167, 251-259	33
1785	Special Resins for Stereolithography: In Situ Generation of Silver Nanoparticles. <b>2018</b> , 10,	29
1784	3D-Printed Biosensor Arrays for Medical Diagnostics. <b>2018</b> , 9,	51
1783	3D Printing of Highly Stretchable Strain Sensors Based on Carbon Nanotube Nanocomposites. <b>2018</b> , 20, 1800425	48
1782	Densely Interconnected Porous BN Frameworks for Multifunctional and Isotropically Thermoconductive Polymer Composites. <b>2018</b> , 28, 1801205	50
1781	3D printing with cellulose materials. <b>2018</b> , 25, 4275-4301	132
1780	A UV-curable epoxy with soft segments for 3D-printable shape-memory materials. <b>2018</b> , 53, 12650-12661	5
1779	Influence of the addition of graphene-like materials on the properties of polyamide for Powder Bed Fusion. <b>2018</b> , 3, 233-244	3
1778	A crack healable syntactic foam reinforced by 3D printed healing-agent based honeycomb. <i>Composites Part B: Engineering</i> , <b>2018</b> , 151, 25-34	10 20
1777	Development of permanent magnet MnAlC/polymer composites and flexible filament for bonding and 3D-printing technologies. <b>2018</b> , 19, 465-473	36
1776	A phenomenological model for dynamic response of double-network hydrogel composite undergoing transient transition. <i>Composites Part B: Engineering</i> , <b>2018</b> , 151, 148-153	10 23
1775	3D printing of ceramic-based scaffolds for bone tissue engineering: an overview. <b>2018</b> , 6, 4397-4412	112
1774	Use of lignocellulosic materials and 3D printing for the development of structured monolithic carbon materials. <i>Composites Part B: Engineering</i> , <b>2018</b> , 149, 206-215	10 15

1773	Exploiting cyclic softening in continuous lattice fabrication for the additive manufacturing of high performance fibre-reinforced thermoplastic composite materials. <b>2018</b> , 164, 248-259		15
1772	Stimuli-chromism of photoswitches in smart polymers: Recent advances and applications as chemosensors. <b>2019</b> , 98, 101149		89
1771	Effects of infill density on the mechanical properties of 3D printed PLA and conductive PLA. <b>2019</b> ,		2
1770	3D printed porous PLA/nHA composite scaffolds with enhanced osteogenesis and osteoconductivity in vivo for bone regeneration. <b>2019</b> , 14, 065003		56
1769	A rational utilization of reinforcement material for flexural design of 3D-printed composite beams. <b>2019</b> , 38, 1040-1054		2
1768	A laser-cutting-based manufacturing process for the generation of three-dimensional scaffolds for tissue engineering using Polycaprolactone/Hydroxyapatite composite polymer. <b>2019</b> , 10, 2041731419859157		12
1767	Activated Carbon in the Third Dimension-3D Printing of a Tuned Porous Carbon. <b>2019</b> , 6, 1901340		13
1766	Preliminary Characterization of Novel LDPE-Based Wear-Resistant Composite Suitable for FDM 3D Printing. <b>2019</b> , 12,		16
1765	3D Printing of Bismaleimides: From New Ink Formulation to Printed Thermosetting Polymer Objects. <b>2019</b> , 4, 1900368		17
1764	Comparison of physical and mechanical properties of PLA, ABS and nylon 6 fabricated using fused deposition modeling and injection molding. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107341	10	83
1763	Assessment of anisotropic mechanical properties of a 3D printed carbon whisker reinforced composite. <b>2019</b> , 28, 545-560		8
1762	An insight into additive manufacturing of fiber reinforced polymer composite. <b>2019</b> , 2, 267-278		34
1761	Selective Metallization of 3D Printable Thermoplastic Polyurethanes. <b>2019</b> , 7, 104947-104955		4
1760	3D bioprinted endometrial stem cells on melt electrospun poly ε-caprolactone mesh for pelvic floor application promote anti-inflammatory responses in mice. <b>2019</b> , 97, 162-176		51
1759	Highly loaded fiber filled polymers for material extrusion: A review of current understanding. <b>2019</b> , 30, 100810		22
1758	Prediction and optimization of mechanical properties of composites using convolutional neural networks. <b>2019</b> , 227, 111264		43
1757	Novel mechanical models of tensile strength and elastic property of FDM AM PLA materials: Experimental and theoretical analyses. <b>2019</b> , 181, 108089		71
1756	Improving the Rate of Translation of Tissue Engineering Products. <b>2019</b> , 8, e1900538		9

1755	Rapid Prototyping of Variable Angle-Tow Composites. <b>2019</b> , 98, 257-271	7
1754	Processing of carbon fiber for 3D printed continuous composite structures. <b>2019</b> , 34, 1528-1536	20
1753	Advances in biomimetic stimuli responsive soft grippers. <b>2019</b> , 6, 20	26
1752	Reactive Processing in Extrusion-Based 3D Printing to Improve Isotropy and Mechanical Properties. <b>2019</b> , 52, 6495-6501	22
1751	Mechanical characteristics of wood, ceramic, metal and carbon fiber-based PLA composites fabricated by FDM. <b>2019</b> , 8, 3741-3751	104
1750	The Applications of 3D Printing for Craniofacial Tissue Engineering. <b>2019</b> , 10,	41
1749	Direct Ink Writing of Poly(tetrafluoroethylene) (PTFE) with Tunable Mechanical Properties. <b>2019</b> , 11, 28289-28295	20
1748	Multifunctional Mechanical Metamaterials Based on Triply Periodic Minimal Surface Lattices. <b>2019</b> , 21, 1900524	121
1747	3D printed continuous fibre-reinforced composites: Bio-inspired microstructures for improving the translaminal fracture toughness. <b>2019</b> , 182, 107731	13
1746	Polymer Fiber Scaffolds for Bone and Cartilage Tissue Engineering. <b>2019</b> , 29, 1903279	105
1745	The journey of self-healing and shape memory polyurethanes from bench to translational research. <b>2019</b> , 10, 4370-4388	37
1744	Unveiling Temporal Nonlinear Structure-Rheology Relationships under Dynamic Shearing. <b>2019</b> , 11,	14
1743	Two-step approach based on selective laser sintering for high performance carbon black/polyamide 12 composite with 3D segregated conductive network. <i>Composites Part B: Engineering</i> , <b>2019</b> , 176, 107214	10 32
1742	Nanocarbon/Poly(Lactic) Acid for 3D Printing: Effect of Fillers Content on Electromagnetic and Thermal Properties. <b>2019</b> , 12,	24
1741	Small-Scale Static Fire Tests of 3D Printing Hybrid Rocket Fuel Grains Produced from Different Materials. <b>2019</b> , 6, 81	7
1740	Polymer concrete. <b>2019</b> , 391-408	1
1739	Stepwise Optimized 3D Printing of Arbitrary 3D Structures at Millimeter Scale with High Precision Surface. <b>2019</b> , 304, 1900400	1
1738	Dynamic Measurements Using FDM 3D-Printed Embedded Strain Sensors. <b>2019</b> , 19,	29

1737	3D and 4D Printing of Polymers for Tissue Engineering Applications. <b>2019</b> , 7, 164		162
1736	FDM 3D Printing of Polymers Containing Natural Fillers: A Review of their Mechanical Properties. <b>2019</b> , 11,		187
1735	3D Printing for Electrocatalytic Applications. <b>2019</b> , 3, 1835-1849		45
1734	Digital Light Processing 3-Dimensional Printer to Manufacture Electrolyzer Bipolar Plate. <b>2019</b> , 268, 012039		2
1733	Development of 3D-printed basalt fiber reinforced thermoplastic honeycombs with enhanced compressive mechanical properties. <b>2019</b> , 125, 105518		31
1732	3D printed fiber reinforced polymer composites - Structural analysis. <i>Composites Part B: Engineering</i> , <b>2019</b> , 175, 107112	10	64
1731	Mechanical and morphological investigations of 3D printed recycled ABS reinforced with bakeliteBiCA12O3. <b>2019</b> , 233, 5933-5944		10
1730	Mechanical characterization of FDM 3D printing of continuous carbon fiber reinforced PLA composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 175, 107147	10	167
1729	Next-Generation 3D Printed Microfluidic Membraneless Enzymatic Biofuel Cell: Cost-Effective and Rapid Approach. <b>2019</b> , 66, 3628-3635		17
1728	Ply and interlaminar behaviours of 3D printed continuous carbon fibre-reinforced thermoplastic laminates; effects of processing conditions and microstructure. <b>2019</b> , 30, 100884		22
1727	Modifications induced in photocuring of Bis- GMA/TEGDMA by the addition of graphene nanoplatelets for 3D printable electrically conductive nanocomposites. <b>2019</b> , 184, 107876		5
1726	3D printing to enable multifunctionality in polymer-based composites: A review. <i>Composites Part B: Engineering</i> , <b>2019</b> , 179, 107540	10	70
1725	Printed soft angular/torque sensors using carbon black-silicone composite. <b>2019</b> , 39, 598-603		3
1724	Digital and lean development method for 3D-printed reactors based on CAD modeling and CFD simulation. <b>2019</b> , 152, 71-84		15
1723	A multiscale approach for virtual testing of highly aligned short carbon fiber composites. <b>2019</b> , 230, 111462	10	
1722	Inversely 3D-Printed TCP Scaffolds for Bone Replacement. <b>2019</b> , 12,		10
1721	Enhancing the interlayer tensile strength of 3D printed short carbon fiber reinforced PETG and PLA composites via annealing. <b>2019</b> , 30, 100922		46
1720	3D Printed Microheater Sensor-Integrated, Drug-Encapsulated Microneedle Patch System for Pain Management. <b>2019</b> , 8, e1901170		19

1719	Functional 3D Printed Polymeric Materials. <b>2019,</b>	5
1718	Miniaturized additively manufactured co-laminar microfluidic glucose biofuel cell with optimized grade pencil bioelectrodes. <b>2019, 44, 31434-31444</b>	14
1717	3D Printing of Covalent Functionalized Graphene Oxide Nanocomposite via Stereolithography. <b>2019, 11, 46034-46043</b>	22
1716	Plasmonic Metamaterial Gels with Spatially Patterned Orientational Order via 3D Printing. <b>2019, 4, 20558-20563</b>	
1715	Design of highly stabilized nanocomposite inks based on biodegradable polymer-matrix and gold nanoparticles for Inkjet Printing. <b>2019, 9, 16097</b>	24
1714	Preparation of Thermoplastic Polyurethane Parts Reinforced with in Situ Polylactic Acid Microfibers during Fused Deposition Modeling: The Influences of Deposition-Induced Effects. <b>2019, 58, 21476-21484</b>	11
1713	Microtopography-Guided Radial Gradient Circle Array Film with Nanoscale Resolution. <b>2019, 15, e1902612</b>	2
1712	Design and characterization of innovative 3D printed embedded strain gauges. <b>2019,</b>	0
1711	State-of-the-Art and Future Challenges of UV Curable Polymer-Based Smart Materials for Printing Technologies. <b>2019, 4, 1800618</b>	117
1710	Gradient Poly(ethylene glycol) Diacrylate and Cellulose Nanocrystals Tissue Engineering Composite Scaffolds via Extrusion Bioprinting. <b>2019, 7, 280</b>	21
1709	Research and implementation of a non-supporting 3D printing method based on 5-axis dynamic slice algorithm. <b>2019, 57, 496-505</b>	29
1708	Review on design and structural optimisation in additive manufacturing: Towards next-generation lightweight structures. <b>2019, 183, 108164</b>	185
1707	Combination of 3D printing and injection molding: Overmolding and overprinting. <b>2019, 13, 889-897</b>	21
1706	Tailoring polymer dispersity and shape of molecular weight distributions: methods and applications. <b>2019, 10, 8724-8734</b>	82
1705	Fully FDM 3D Printed Flexible Capacitive and Resistive Transducers. <b>2019,</b>	1
1704	Tribology behaviour investigation of 3D printed polymers. <b>2019, 10, 173-181</b>	10
1703	Eco-friendly lightweight filament synthesis and mechanical characterization of additively manufactured closed cell foams. <b>2019, 183, 107816</b>	23
1702	Advances in 3D printing of thermoplastic polymer composites and nanocomposites. <b>2019, 98, 101162</b>	162

1701	An Overview on 3D Printing Technology: Technological, Materials, and Applications. <b>2019</b> , 35, 1286-1296		283
1700	Impact of nanosilica on the friction and wear of a PEEK/CF composite coating manufactured by fused deposition modeling (FDM). <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107428	10	34
1699	Biomimetic Polymer-Based Engineered Scaffolds for Improved Stem Cell Function. <b>2019</b> , 12,		11
1698	Preserving Fine Structure Details and Dramatically Enhancing Electron Transfer Rates in Graphene 3D-Printed Electrodes via Thermal Annealing: Toward Nitroaromatic Explosives Sensing. <b>2019</b> , 11, 35371-35375	45	
1697	Additive Manufacturing: A Novel Method for Developing an Acoustic Panel Made of Natural Fiber-Reinforced Composites with Enhanced Mechanical and Acoustical Properties. <b>2019</b> , 2019, 1-19		17
1696	A review of biomaterials scaffold fabrication in additive manufacturing for tissue engineering. <b>2019</b> , 34, 415-435		22
1695	Atomization of cellulose nanocrystals aqueous suspensions in fused deposition modeling: A scalable technique to improve the strength of 3D printed polymers. <i>Composites Part B: Engineering</i> , <b>2019</b> , 177, 107291	10	12
1694	3D Printing of Mixed Matrix Films Based on Metal-Organic Frameworks and Thermoplastic Polyamide 12 by Selective Laser Sintering for Water Applications. <b>2019</b> , 11, 40564-40574		46
1693	FEM analysis of long-fibre composite structures created by 3D printing. <b>2019</b> , 40, 792-799		5
1692	Photopolymerization of Thick Layers of Compositions for Mask-Based Stereolithographic Synthesis. <b>2019</b> , 53, 413-417		1
1691	Hygromechanical properties of 3D printed continuous carbon and glass fibre reinforced polyamide composite for outdoor structural applications. <b>2019</b> , 26, 94-105		52
1690	Tensile properties and failure behavior of chopped and continuous carbon fiber composites produced by additive manufacturing. <b>2019</b> , 26, 227-241		79
1689	Computational modeling for cure process of carbon epoxy composite block. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 693-702	10	0
1688	Strategic Design of Clay-Based Multifunctional Materials: From Natural Minerals to Nanostructured Membranes. <b>2019</b> , 29, 1807611		39
1687	Mechanical properties of 3-D printed truss-like lattice biopolymer non-stochastic structures for sandwich panels with natural fibre composite skins. <b>2019</b> , 213, 220-230		32
1686	Bioinspired fiber-regulated composite with tunable permanent shape and shape memory properties via 3d magnetic printing. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 458-466	10	30
1685	Additive Manufacturing of Mechanically Isotropic Thin Films and Membranes via Microextrusion 3D Printing of Polymer Solutions. <b>2019</b> , 11, 6652-6661		22
1684	Electroactive Smart Polymers for Biomedical Applications. <b>2019</b> , 12,		81

1683	3D printed electrochemical energy storage devices. <b>2019</b> , 7, 4230-4258	152
1682	A feasibility study for a straightforward decoration of a 3D printing filament with graphene oxide. <b>2019</b> , 27, 607-612	4
1681	A novel biopolymer device fabricated by 3D printing for simplifying procedures of pancreaticojejunostomy. <b>2019</b> , 103, 109786	4
1680	NiAl intermetallic composites—review of processing methods, reinforcements and mechanical properties. <b>2019</b> , 104, 1733-1747	10
1679	Additive manufacturing of continuous fibre reinforced thermoplastic composites using fused deposition modelling: Effect of process parameters on mechanical properties. <b>2019</b> , 181, 107688	156
1678	Systematically Designed Periodic Electrophoretic Deposition for Decorating 3D Carbon-Based Scaffolds with Bioactive Nanoparticles. <b>2019</b> , 5, 4393-4404	7
1677	3D-printed monolithic SiCN ceramic microreactors from a photocurable preceramic resin for the high temperature ammonia cracking process. <b>2019</b> , 4, 1393-1399	21
1676	Tissue engineering scaffolds: future perspectives. <b>2019</b> , 165-185	5
1675	Additively manufacturing high-performance bismaleimide architectures with ultraviolet-assisted direct ink writing. <b>2019</b> , 180, 107947	31
1674	Statistical analysis of mechanical properties of wood-PLA composites prepared via additive manufacturing. <b>2019</b> , 24, 584-596	11
1673	Fabrication and characterization of porous polycaprolactone scaffold via extrusion-based cryogenic 3D printing for tissue engineering. <b>2019</b> , 180, 107946	55
1672	The Essential Work of Fracture parameters for 3D printed polymer sheets. <b>2019</b> , 181, 107968	11
1671	3D Printed Fouling-Resistant Composite Membranes. <b>2019</b> , 11, 26373-26383	38
1670	Understanding the microstructural role of bio-sourced 3D printed structures on the tensile performance. <b>2019</b> , 77, 105924	16
1669	The structure of deterministic mass and surface fractals: theory and methods of analyzing small-angle scattering data. <b>2019</b> , 21, 12748-12762	12
1668	A comprehensive review of recent developments in 3D printing technique for ceramic membrane fabrication for water purification.. <b>2019</b> , 9, 16869-16883	46
1667	3D printing algorithm of anisotropic biological scaffold with oxidized nanocellulose and gelatin. <b>2019</b> , 30, 1260-1275	8
1666	Biomimetic modification of dual porosity poly(2-hydroxyethyl methacrylate) hydrogel scaffolds-porosity and stem cell growth evaluation. <b>2019</b> , 14, 055004	5

1665	Comparative assessment of the interface between poly(3-hydroxybutyrate-co-3-hydroxyvalerate) and fish scales in composites: Preparation, characterization, and applications. <b>2019</b> , 104, 109878	10
1664	Bioprinting of freestanding vascular grafts and the regulatory considerations for additively manufactured vascular prostheses. <b>2019</b> , 211, 123-138	9
1663	Development of Intricate Aerogel Articles Using Fused Filament Fabrication. <b>2019</b> , 1, 1749-1756	6
1662	Investigations on joining of orthopaedic scaffold with rapid tooling. <b>2019</b> , 233, 754-760	7
1661	Additive manufacturing of natural fiber reinforced polymer composites: Processing and prospects. <i>Composites Part B: Engineering</i> , <b>2019</b> , 174, 106956	10 181
1660	3D printing of continuous flax fibre reinforced biocomposites for structural applications. <b>2019</b> , 180, 107884	91
1659	Simulation and validation of thermography inspection for components produced by additive manufacturing. <b>2019</b> , 159, 113872	16
1658	Gelatin methacryloyl (GelMA)-based biomaterials for bone regeneration.. <b>2019</b> , 9, 17737-17744	24
1657	Multi-material 3D printing of a soft pressure sensor. <b>2019</b> , 28, 629-638	33
1656	Additive manufacturing high performance graphene-based composites: A review. <b>2019</b> , 124, 105483	78
1655	In Operando Monitoring of Dynamic Recovery in 3D-Printed Thermoset Nanocomposites by XPCS. <b>2019</b> , 35, 8758-8768	23
1654	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. <b>2019</b> , 12,	192
1653	Mechanical Properties of Ultraviolet-Assisted Paste Extrusion and Postextrusion Ultraviolet-Curing of Three-Dimensional Printed Biocomposites. <b>2019</b> , 6, 127-137	9
1652	Reinforcement of material extrusion 3D printed polycarbonate using continuous carbon fiber. <b>2019</b> , 28, 354-364	17
1651	A Novel Route to Fabricate High-Performance 3D Printed Continuous Fiber-Reinforced Thermosetting Polymer Composites. <b>2019</b> , 12,	35
1650	Hydrothermal aging of bio-based poly(lactic acid) (PLA) wood polymer composites: Studies on sorption behavior, morphology, and heat conductance. <b>2019</b> , 214, 290-302	18
1649	Research on hybrid sisal/glass composites: A review. <b>2019</b> , 38, 789-821	9
1648	Customizable 3D-printed stirrers for investigation, optimization and scale-up processes of batch emulsion copolymerizations. <b>2019</b> , 206, 50-62	9

1647	An experimental study on the fracture of a unidirectional carbon fiber-reinforced composite under quasistatic torsion. <i>Composites Part B: Engineering</i> , <b>2019</b> , 172, 547-554	10	13
1646	Morphology Evolutions and Mechanical Properties of In Situ Fibrillar Poly(lactic Acid)/Thermoplastic Polyurethane Blends Fabricated by Fused Deposition Modeling. <b>2019</b> , 304, 1900107		15
1645	Additive manufacturing for space: status and promises. <b>2019</b> , 105, 4123-4146		30
1644	3D printed antibacterial silver nanowire/poly(lactide) nanocomposites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 172, 671-678	10	37
1643	Additively manufactured porous metallic biomaterials. <b>2019</b> , 7, 4088-4117		76
1642	PMMA-CNT-HAp nanocomposites optimized for 3D-printing applications. <b>2019</b> , 6, 085405		8
1641	Analysis of mechanical behavior of 3D printed heterogeneous particle-polymer composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 173, 106840	10	21
1640	Photo-cross-linking: A powerful and versatile strategy to develop shape-memory polymers. <b>2019</b> , 95, 32-64		57
1639	Additive Manufacturing of PLA-Based Composites Using Fused Filament Fabrication: Effect of Graphene Nanoplatelet Reinforcement on Mechanical Properties, Dimensional Accuracy and Texture. <b>2019</b> , 11,		109
1638	Development of an Additive Manufacturing System for the Deposition of Thermoplastics Impregnated with Carbon Fibers. <b>2019</b> , 3, 35		3
1637	Induction heating-based low-frequency alternating magnetic field: High potential of ferromagnetic composites for medical applications. <b>2019</b> , 174, 107804		14
1636	Recent Developments in Fused Deposition Modeling-Based 3D Printing of Polymers and Their Composites. <b>2019</b> , 59, 589-624		114
1635	Fundamentals of Rapid Tooling. <b>2019</b> , 1-22		1
1634	3D printing of high density polyethylene by fused filament fabrication. <b>2019</b> , 28, 152-159		81
1633	Additive manufacturing of polymer composites: Processing and modeling approaches. <i>Composites Part B: Engineering</i> , <b>2019</b> , 171, 166-182	10	66
1632	Design Optimization and FE Analysis of 3D Printed Carbon PEEK Based Mono Leaf Spring. <b>2019</b> , 10,		3
1631	Fractal channel manifolds for microjet liquid-cooled heat sinks. <b>2019</b> , 138, 257-266		21
1630	Fabrication of Demineralized Bone Matrix/Polycaprolactone Composites Using Large Area Projection Sintering (LAPS). <b>2019</b> , 3, 30		3

1629	Functional nanocomposites for 3D printing of stretchable and wearable sensors. <b>2019</b> , 9, 2071-2083		31
1628	Additive manufacturing of precision optics at micro and nanoscale. <b>2019</b> , 1, 012005		22
1627	Chemistry from 3D printed objects. <b>2019</b> , 3, 305-314		61
1626	Characterizations of continuous carbon fiber-reinforced composites for electromagnetic interference shielding fabricated by 3D printing. <b>2019</b> , 125, 1		16
1625	Recent Advances in Additive Manufacturing of Bio-inspired Materials. <b>2019</b> , 35-68		13
1624	Rheological and electrical behaviour of nanocarbon/poly(lactic) acid for 3D printing applications. <i>Composites Part B: Engineering</i> , <b>2019</b> , 167, 467-476	10	39
1623	Soft Robotic Surrogate Lung.. <b>2019</b> , 2, 1490-1497		10
1622	Recent Patents in Additive Manufacturing of Continuous Fiber Reinforced Composites. <b>2019</b> , 12, 25-36		14
1621	Collagen-based biinks for hard tissue engineering applications: a comprehensive review. <b>2019</b> , 30, 32		81
1620	3D printed ceramic phosphor and the photoluminescence property under blue laser excitation. <b>2019</b> , 39, 2731-2738		17
1619	Additive manufacturing: Challenges, trends, and applications. <b>2019</b> , 11, 168781401882288		133
1618	Direct Ink Writing of Cement Structures Modified with Nanoscale Additive. <b>2019</b> , 21, 1801380		10
1617	3D-printed ternary SiO <sub>2</sub> CaO P <sub>2</sub> O <sub>5</sub> bioglass-ceramic scaffolds with tunable compositions and properties for bone regeneration. <b>2019</b> , 45, 10997-11005		16
1616	Poly-lactic-Acid: Potential Material for Bio-printing Applications. <b>2019</b> , 69-87		6
1615	Shape memory effect of three-dimensional printed products based on polypropylene/nylon 6 alloy. <b>2019</b> , 54, 9235-9246		27
1614	Preparation of spherical polymer powders for selective laser sintering from immiscible PA12/PEO blends with high viscosity ratios. <b>2019</b> , 172, 58-65		9
1613	Preparation and properties of PLA/PHBV/PBAT blends 3D printing filament. <b>2019</b> , 6, 065401		7
1612	Design and Characterization of Electrically Conductive Structures Additively Manufactured by Material Extrusion. <b>2019</b> , 9, 779		26

1611	PLA/Graphene/MWCNT Composites with Improved Electrical and Thermal Properties Suitable for FDM 3D Printing Applications. <b>2019</b> , 9, 1209	71
1610	Preparation of high solid loading and low viscosity ceramic slurries for photopolymerization-based 3D printing. <b>2019</b> , 45, 11549-11557	74
1609	Influence of mixed isotropic fiber angles and hot press on the mechanical properties of 3D printed composites. <b>2019</b> , 27, 150-158	31
1608	Selective Laser Sintering Fabricated Thermoplastic Polyurethane/Graphene Cellular Structures with Tailorable Properties and High Strain Sensitivity. <b>2019</b> , 9, 864	23
1607	Design Considerations for 3D Printed, Soft, Multimaterial Resistive Sensors for Soft Robotics. <b>2019</b> , 6, 30	37
1606	Printing approaches to inorganic semiconductor photocatalyst fabrication. <b>2019</b> , 7, 10858-10878	24
1605	Architected Polymeric Materials Produced by Additive Manufacturing. <b>2019</b> , 257-285	2
1604	Electrolysis Activation of Fused-Filament-Fabrication 3D-Printed Electrodes for Electrochemical and Spectroelectrochemical Analysis. <b>2019</b> , 91, 5553-5557	53
1603	Electron beam induced strengthening of a short carbon fiber reinforced green thermoplastic composite: Key factors determining materials performance. <b>2019</b> , 121, 386-396	6
1602	The GAP methodology: A new way to design composite structures. <b>2019</b> , 172, 107755	13
1601	3D printing and surface imprinting technologies for water treatment: A review. <b>2019</b> , 31, 100786	32
1600	3D-Printable PP/SEBS Thermoplastic Elastomeric Blends: Preparation and Properties. <b>2019</b> , 11,	53
1599	Strengthening three-dimensional printed ultra-light ceramic lattices. <b>2019</b> , 102, 5082-5089	7
1598	3D printing of thermoreversible polyurethanes with targeted shape memory and precise in situ self-healing properties. <b>2019</b> , 7, 6972-6984	37
1597	A strategy for modelling mechanochemically induced unzipping and scission of chemical bonds in double-network polymer composite. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 456-466	10 8
1596	Manufacturing of a Metal Matrix Composite Coating on a Polymer Matrix Composite Through Cold Gas Dynamic Spray Technique. <b>2019</b> , 28, 3211-3219	27
1595	Rheological design of 3D printable all-inorganic inks using BiSbTe-based thermoelectric materials. <b>2019</b> , 63, 291-304	16
1594	Modification of 3D printed PCL scaffolds by PVAc and HA to enhance cytocompatibility and osteogenesis.. <b>2019</b> , 9, 5338-5346	22

1593	Photopolymerization in 3D Printing. <b>2019</b> , 1, 593-611	377
1592	Mechanical characterization and asymptotic homogenization of 3D-printed continuous carbon fiber-reinforced thermoplastic. <b>2019</b> , 41, 1	47
1591	3D Printing of Ground Tire Rubber Composites. <b>2019</b> , 6, 211-222	15
1590	Topology optimization of the lattice payload adapter for carrier rocket. <b>2019</b> , 683, 012061	0
1589	Microstructure and mechanical properties of reinforced polyamide 12 composites prepared by laser additive manufacturing. <b>2019</b> , 25, 1127-1134	8
1588	The development of a conical screw-based extrusion deposition system and its application in fused deposition modeling with thermoplastic polyurethane. <b>2019</b> , 26, 409-417	14
1587	Stiffness prediction of 3D printed fiber-reinforced thermoplastic composites. <b>2019</b> , 26, 549-555	3
1586	A review on Manufacturing, Machining, and recycling of 3D printed composite materials.. <b>2019</b> , 653, 012024	3
1585	Poly(L-Lactide) Bionanocomposites. <b>2019</b> ,	
1584	Remanufacturing of end-of-life glass-fiber reinforced composites via UV-assisted 3D printing. <b>2019</b> , 26, 981-992	9
1583	Low Cost 3D Printing for Rapid Prototyping and its Application. <b>2019</b> ,	3
1582	3D Printing And Free-form Surface Coating Based on 6-DOF Robot. <b>2019</b> ,	2
1581	Fused Deposition Modelling Filament with Recyclate Fibre Reinforcement. <b>2019</b> , 85, 353-358	2
1580	Analysis of the influence of the variables of the Fused Deposition Modeling (FDM) process on the mechanical properties of a carbon fiber-reinforced polyamide. <b>2019</b> , 41, 731-738	9
1579	Piezoresistive dynamic simulations of FDM 3D-Printed embedded strain sensors: a new modal approach. <b>2019</b> , 24, 390-397	2
1578	Mechanical properties of carbon and glass fibre reinforced composites produced by additive manufacturing: A short review. <b>2019</b> , 670, 012020	3
1577	The Production Possibility of the Antimicrobial Filaments by Co-Extrusion of the PLA Pellet with Chitosan Powder for FDM 3D Printing Technology. <b>2019</b> , 11,	12
1576	Effect of carbon fibre on reinforcement of thermoplastics using FDM and RSM. <b>2019</b> , 089270571988689	14

1575	Influence of fused deposition method 3D printing on thermoelastic effect. <b>2019</b> , 33, 5235-5241	0
1574	Anisotropy Evaluation of Different Raster Directions, Spatial Orientations, and Fill Percentage of 3D Printed PETG Tensile Test Specimens. <b>2019</b> , 821, 167-173	21
1573	Investigations on the melt flow behaviour of aluminium filled ABS polymer composite for the extrusion-based additive manufacturing process. <b>2019</b> , 59, 194	5
1572	Parametric Effects of Fused Deposition Modelling on the Mechanical Properties of Polylactide Composites: A Review. <b>2019</b> , 1378, 022060	7
1571	Stereolithography 3D Printing of Lignin-Reinforced Composites with Enhanced Mechanical Properties. <b>2019</b> , 4, 20197-20204	30
1570	Fabrication of a Large-Area, Fused Polymer Micromold Based on Electric-Field-Driven (EFD) EBD Printing. <b>2019</b> , 11,	4
1569	Three-Dimensional Printing of a LiFePO <sub>4</sub> /Graphite Battery Cell via Fused Deposition Modeling. <b>2019</b> , 9, 18031	49
1568	Strategy To Improve Printability of Renewable Resource-Based Engineering Plastic Tailored for FDM Applications. <b>2019</b> , 4, 20297-20307	15
1567	Sandwich-Type Composites Based on Smart Ionomeric Polymer and Electrospun Microfibers. <b>2019</b> , 6,	6
1566	Evaluation of the Mechanical Properties of a 3D-Printed Mortar. <b>2019</b> , 12,	9
1565	Stereolithography Provides Access to 3D Printed Ionogels with High Ionic Conductivity. <b>2019</b> , 33, 12885-12893	7
1564	4D-printed hybrids with localized shape memory behaviour: Implementation in a functionally graded structure. <b>2019</b> , 9, 18754	23
1563	High-Performance Nylon-6 Sustainable Filaments for Additive Manufacturing. <b>2019</b> , 12,	19
1562	Recent progress in shape memory polymer composites: methods, properties, applications and prospects. <b>2019</b> , 8, 327-351	37
1561	Review: The Impact of Metal Additive Manufacturing on the Aerospace Industry. <b>2019</b> , 9, 1286	72
1560	Preparation and 3D-printing of highly conductive polylactic acid/carbon nanotube nanocomposites local enrichment strategy.. <b>2019</b> , 9, 29980-29986	30
1559	A new safranin based three-component photoinitiating system for high resolution and low shrinkage printed parts digital light processing.. <b>2019</b> , 9, 39709-39720	10
1558	Synergistic reinforcement of polyamide-based composites by combination of short and continuous carbon fibers via fused filament fabrication. <b>2019</b> , 207, 232-239	51

1557	3D-printing of novel magnetic composites based on magnetic nanoparticles and photopolymers. <b>2019</b> , 469, 456-460		24
1556	Magnetic-Polymer Composites for Bonding and 3D Printing of Permanent Magnets. <b>2019</b> , 55, 1-4		24
1555	Design considerations and modeling of fiber reinforced 3D printed parts. <i>Composites Part B: Engineering</i> , <b>2019</b> , 160, 684-692	10	60
1554	Characterization and optimization of laser sintering copolyamide/polyether sulfone hot-melt adhesive mixtures. <b>2019</b> , 25, 614-622		4
1553	Structural changes during 3D printing of bioderived and synthetic thermoplastic materials. <b>2019</b> , 136, 47382		31
1552	Bending fracture rule for 3D-printed curved continuous-fiber composite. <b>2019</b> , 28, 383-395		24
1551	Fracture toughness of additively manufactured carbon fiber reinforced composites. <b>2019</b> , 26, 41-52		60
1550	A method to predict the ultimate tensile strength of 3D printing polylactic acid (PLA) materials with different printing orientations. <i>Composites Part B: Engineering</i> , <b>2019</b> , 163, 393-402	10	97
1549	Numerical study on the effective stiffness of topology-optimized lattice structures made of orthotropic crystal grains with optimal orientation. <b>2019</b> , 159, 202-209		3
1548	A novel highly electrically conductive composite resin for stereolithography. <b>2019</b> , 19, 12-17		34
1547	Knowledge-Based Design of Artificial Neural Network Topology for Additive Manufacturing Process Modeling: A New Approach and Case Study for Fused Deposition Modeling. <b>2019</b> , 141,		27
1546	Measurement of the mechanical and dynamic properties of 3D printed polylactic acid reinforced with graphene. <b>2019</b> , 58, 1234-1244		17
1545	Interlayer fracture energy of 3D-printed PLA material. <b>2019</b> , 101, 1959-1965		9
1544	The potential of three-dimensional printing technologies to unlock the development of new 'bio-inspired' dental materials: an overview and research roadmap. <b>2019</b> , 63, 131-139		11
1543	3D-Printed MOF-Derived Hierarchically Porous Frameworks for Practical High-Energy Density LiO <sub>2</sub> Batteries. <b>2019</b> , 29, 1806658		138
1542	Design, stiffness analysis and experimental study of a cable-driven parallel 3D printer. <b>2019</b> , 132, 207-222		36
1541	Linking fresh paste microstructure, rheology and extrusion characteristics of cementitious binders for 3D printing. <b>2019</b> , 102, 3951-3964		35
1540	Mechanical Characterizations of 3D-printed PLLA/Steel Particle Composites. <b>2018</b> , 12,		318

1539	Fused deposition processing polycaprolactone of composites for biomedical applications. <b>2019</b> , 58, 1365-1398	27
1538	Graphene inks for the 3D printing of cell culture scaffolds and related molecular arrays. <i>Composites Part B: Engineering</i> , <b>2019</b> , 162, 712-723	10 31
1537	In-line rheological monitoring of fused deposition modeling. <b>2019</b> , 63, 141-155	67
1536	3D Printing with CoreShell Filaments Containing High or Low Density Polyethylene Shells. <b>2019</b> , 1, 275-285	32
1535	Three-dimensional printing of poly(lactic acid) bio-based composites with sugarcane bagasse fiber: Effect of printing orientation on tensile performance. <b>2019</b> , 30, 910-922	54
1534	Nonlocal strain gradient exact solutions for functionally graded inflected nano-beams. <i>Composites Part B: Engineering</i> , <b>2019</b> , 164, 667-674	10 60
1533	Three-Dimensional Printing of Abrasive, Hard, and Thermally Conductive Synthetic Microdiamond-Polymer Composite Using Low-Cost Fused Deposition Modeling Printer. <b>2019</b> , 11, 4353-4363	40
1532	Polymers. <b>2019</b> , 61-157	
1531	Ink-based 3D printing technologies for graphene-based materials: a review. <b>2019</b> , 2, 1-33	97
1530	Topology optimization-guided lattice composites and their mechanical characterizations. <i>Composites Part B: Engineering</i> , <b>2019</b> , 160, 402-411	10 29
1529	A method for the detection and characterization of technology fronts: Analysis of the dynamics of technological change in 3D printing technology. <b>2019</b> , 14, e0210441	2
1528	Development of Multifunctional CNTs Reinforced PEI Filaments for Fused Deposition Modeling. <b>2019</b> ,	2
1527	Effects of fiber surface treatment and nozzle geometry in structural properties of additively manufactured two-phase composites. <b>2019</b> ,	8
1526	Review of the main factors controlling the fracture toughness and impact strength properties of natural composites. <b>2019</b> , 6, 022001	18
1525	Bionic design and 3D printing of porous titanium alloy scaffolds for bone tissue repair. <i>Composites Part B: Engineering</i> , <b>2019</b> , 162, 154-161	10 61
1524	A dry film technology for the manufacturing of 3-D multi-layered microstructures and buried channels for lab-on-chip. <b>2019</b> , 25, 3219-3233	2
1523	The synergistic effects of a novel intumescent flame-retardant poly-(4-nitrophenoxy)-phosphazene and ammonium polyphosphate on ABS systems. <b>2019</b> , 137, 65-77	5
1522	Preparation of polypropylene/short glass fiber composite as Fused Deposition Modeling (FDM) filament. <b>2019</b> , 12, 205-222	94

1521	Heterophase materials for fused filament fabrication of structural electronics. <b>2019</b> , 30, 1236-1245		11
1520	Internal damage evaluation of composite structures using phased array ultrasonic technique: Impact damage assessment in CFRP and 3D printed reinforced composites. <i>Composites Part B: Engineering</i> , <b>2019</b> , 165, 131-142	10	62
1519	3D printed bio-inspired sealing disc of pipeline inspection gauges (PIGs) in small diameter pipeline. <b>2019</b> , 61, 344-356		6
1518	A comprehensive review of biodegradable synthetic polymer-ceramic composites and their manufacture for biomedical applications. <b>2019</b> , 4, 22-36		117
1517	Hyperporous carbon-coated 3D printed devices. <b>2019</b> , 14, 29-34		12
1516	Novel luminescent PLA/MgAl <sub>2</sub> O <sub>4</sub> :Sm <sup>3+</sup> composite filaments for 3D printing application. <b>2019</b> , 237, 270-273		22
1515	Recent Progress in Additive Manufacturing of Fiber Reinforced Polymer Composite. <b>2019</b> , 4, 1800271		157
1514	Application of 3D printed ABS based conductive carbon black composite sensor in void fraction measurement. <i>Composites Part B: Engineering</i> , <b>2019</b> , 159, 224-230	10	30
1513	Stereolithography-based 3D printed photosensitive polymer/boron nitride nanoplatelets composites. <b>2019</b> , 40, 379-388		17
1512	Feasibility study to control fiber distribution for enhancement of composite properties via three-dimensional printing. <b>2019</b> , 26, 465-469		5
1511	Development of multifunctional nanocomposites with 3-D printing additive manufacturing and low graphene loading. <b>2019</b> , 32, 383-408		35
1510	A study on the kinetics and thermal properties of polystyrene/diatomite nanocomposites prepared via in situ ATRP. <b>2020</b> , 33, 180-197		5
1509	The assessment of 3D printer technology for forensic comparative analysis. <b>2020</b> , 52, 579-589		2
1508	Nickel Chromium Based Partial Denture Preparation: Conventional vs Additive Manufacturing Techniques. <b>2020</b> , 500-509		3
1507	Effect of layer thickness and cross-section geometry on the tensile and compression properties of 3D printed ABS. <b>2020</b> , 22, 100626		8
1506	CO <sub>2</sub> permeability control in 3D printed light responsive structures. <b>2020</b> , 18, 100470		13
1505	A critical review on 3D printed continuous fiber-reinforced composites: History, mechanism, materials and properties. <b>2020</b> , 232, 111476		145
1504	Development of additively manufacturable and electrically conductive graphite/polymer composites. <b>2020</b> , 5, 153-162		7

1503	Efficient hybrid microjet liquid cooled heat sinks made of photopolymer resin: thermo-fluid characteristics and entropy generation analysis. <b>2020</b> , 146, 118844	11
1502	Manufacturing bioinspired flexible materials using ultrasound directed self-assembly and 3D printing. <b>2020</b> , 185, 108243	16
1501	Polymer-based conductive composites for 3D and 4D printing of electrical circuits. <b>2020</b> , 45-83	3
1500	3D and 4D printing of pH-responsive and functional polymers and their composites. <b>2020</b> , 85-117	11
1499	3D and 4D printing of polymer/CNTs-based conductive composites. <b>2020</b> , 297-324	12
1498	Medical and biomedical applications of 3D and 4D printed polymer nanocomposites. <b>2020</b> , 325-366	5
1497	Hydrogels and hydrogel composites for 3D and 4D printing applications. <b>2020</b> , 427-465	4
1496	Fundamentals and applications of 3D and 4D printing of polymers: Challenges in polymer processing and prospects of future research. <b>2020</b> , 527-560	4
1495	3D printing for membrane separation, desalination and water treatment. <b>2020</b> , 18, 100486	74
1494	Alginate hydrogels for bone tissue engineering, from injectables to bioprinting: A review. <b>2020</b> , 229, 115514	157
1493	Kinetic thermal behavior of nanocellulose filled polylactic acid filament for fused filament fabrication 3D printing. <b>2020</b> , 137, 48374	13
1492	Additive Manufacturing of Precision Biomaterials. <b>2020</b> , 32, e1901994	62
1491	3D Printing of polymer composites: A short review. <b>2020</b> , 2, e97	31
1490	Additive Manufacturing of Spiral Windings for a Pot-Core Constant-Flux Inductor. <b>2020</b> , 8, 618-625	5
1489	Elasto-Plastic Finite Element Modeling of Short Carbon Fiber Reinforced 3D Printed Acrylonitrile Butadiene Styrene Composites. <b>2020</b> , 72, 475-484	4
1488	3D printed polylactic acid nanocomposite scaffolds for tissue engineering applications. <b>2020</b> , 81, 106203	28
1487	3D-Printed Sugar Scaffold for High-Precision and Highly Sensitive Active and Passive Wearable Sensors. <b>2020</b> , 7, 1902521	17
1486	Recent Progress on 3D-Printed Polylactic Acid and Its Applications in Bone Repair. <b>2020</b> , 22, 1901065	21

1485	Effect of environment on mechanical properties of 3D printed polylactide for biomedical applications. <b>2020</b> , 102, 103510	20
1484	A low cost method for carbamazepine, ciprofloxacin and norfloxacin determination in pharmaceutical formulations based on spot-test and smartphone images. <b>2020</b> , 152, 104297	11
1483	Robotic Hands with Intrinsic Tactile Sensing via 3D Printed Soft Pressure Sensors. <b>2020</b> , 2, 1900080	50
1482	Three-dimensional printing technologies for terahertz applications: A review. <b>2020</b> , 30, e21983	16
1481	3D and 4D printing of biomaterials and biocomposites, bioinspired composites, and related transformers. <b>2020</b> , 467-504	2
1480	Pore-Scale Flow Characterization of Polymer Solutions in Microfluidic Porous Media. <b>2020</b> , 16, e1903944	38
1479	Processing parameter correlations in material extrusion additive manufacturing. <b>2020</b> , 31, 100924	13
1478	Fabrication of 3D and 4D polymer micro- and nanostructures based on electrospinning. <b>2020</b> , 191-229	2
1477	Multiphase Microfluidics: Fundamentals, Fabrication, and Functions. <b>2020</b> , 16, e1906357	26
1476	Recent progress in 4D printing of stimuli-responsive polymeric materials. <b>2020</b> , 63, 532-544	36
1475	Self-heating 3D printed continuous carbon fiber/epoxy mesh and its application in wind turbine deicing. <b>2020</b> , 82, 106309	18
1474	Development of Toughened Blends of Poly(lactic acid) and Poly(butylene adipate-co-terephthalate) for 3D Printing Applications: Compatibilization Methods and Material Performance Evaluation. <b>2020</b> , 8, 6576-6589	25
1473	Effects of UHMWPE Filler on the Tribological and Mechanical Properties of Biocompatible Epoxies. <b>2020</b> , 63, 382-392	6
1472	Scaffolds modified with graphene as future implants for nasal cartilage. <b>2020</b> , 55, 4030-4042	12
1471	3D-printed PLA/HA composite structures as synthetic trabecular bone: A feasibility study using fused deposition modeling. <b>2020</b> , 103, 103608	41
1470	Fused Deposition modeling process parameters optimization and effect on mechanical properties and part quality: Review and reflection on present research. <b>2020</b> , 21, 1659-1672	63
1469	3D-Printed Photoactive Semiconducting Nanowire Polymer Composites for Light Sensors. <b>2020</b> , 3, 969-976	2
1468	Direct Conversion of McDonald's Waste Cooking Oil into a Biodegradable High-Resolution 3D-Printing Resin. <b>2020</b> , 8, 1171-1177	21

1467	Thermoformability characterisation of Flax reinforced polypropylene composite materials. <i>Composites Part B: Engineering</i> , <b>2020</b> , 184, 107727	10	9
1466	Combination of stiffness, strength, and toughness in 3D printed interlocking nacre-like composites. <b>2020</b> , 35, 100621		17
1465	Path-designed 3D printing for topological optimized continuous carbon fibre reinforced composite structures. <i>Composites Part B: Engineering</i> , <b>2020</b> , 182, 107612	10	33
1464	Influence of morphology on electrochemical and capacity performance of open-porous structured electrodes. <b>2020</b> , 50, 231-244		10
1463	Structure-Property Relationship of Stereolithography Resins Containing Polysiloxane Core-Shell Nanoparticles. <b>2020</b> , 12, 4917-4926		5
1462	Electrical conductivity of CNT/polymer composites: 3D printing, measurements and modeling. <i>Composites Part B: Engineering</i> , <b>2020</b> , 183, 107600	10	68
1461	3D Printing of Electrochemical Energy Storage Devices: A Review of Printing Techniques and Electrode/Electrolyte Architectures. <b>2020</b> , 3, 130-146		59
1460	ARIMA-GMDH: a low-order integrated approach for predicting and optimizing the additive manufacturing process parameters. <b>2020</b> , 106, 701-717		4
1459	A review on 3D printed matrix polymer composites: its potential and future challenges. <b>2020</b> , 106, 1695-1721		61
1458	Microarchitected 3D printed polylactic acid (PLA) nanocomposite scaffolds for biomedical applications. <b>2020</b> , 103, 103576		40
1457	Effects of 3D printed surface texture on erosive wear. <b>2020</b> , 144, 106110		5
1456	Reinforced and toughened PP/PS composites prepared by Fused Filament Fabrication (FFF) with in-situ microfibril and shish-kebab structure. <b>2020</b> , 186, 121971		15
1455	Additively manufactured carbon fiber-reinforced composites: State of the art and perspective. <b>2020</b> , 31, 100962		82
1454	Fabrication of Complex 3D Fluidic Networks via Modularized Stereolithography. <b>2020</b> , 22, 1901109		14
1453	Effects of the infill pattern on mechanical properties of fused layer modeling (FLM) 3D printed wood/polylactic acid (PLA) composites. <b>2020</b> , 78, 65-74		29
1452	Additive manufacturing and characterization of a load cell with embedded strain gauges. <b>2020</b> , 62, 113-120		14
1451	Mechanical, electrical and thermal performance of hybrid polyethylene-graphene nanoplatelets-polypyrrole composites: a comparative analysis of 3D printed and compression molded samples. <b>2020</b> , 59, 780-796		4
1450	Comparison of various 3D printed and milled PAEK materials: Effect of printing direction and artificial aging on Martens parameters. <b>2020</b> , 36, 197-209		11

1449	3D Printing of Textiles: Potential Roadmap to Printing with Fibers. <b>2020</b> , 32, e1902086		47
1448	Designing with Light: Advanced 2D, 3D, and 4D Materials. <b>2020</b> , 32, e1903850		81
1447	Recycled poly(lactic acid)Based 3D printed sustainable biocomposites: a comparative study with injection molding. <b>2020</b> , 7-8, 100027		19
1446	Two-Step 3 D-Printing Approach toward Sustainable, Repairable, Fluorescent Shape-Memory Thermosets Derived from Cellulose and Rosin. <b>2020</b> , 13, 893-902		24
1445	Dynamic response of additively manufactured graded foams. <i>Composites Part B: Engineering</i> , <b>2020</b> , 183, 107630	10	26
1444	Self-healing polymers with nanomaterials and nanostructures. <b>2020</b> , 30, 100826		36
1443	Material Extrusion Additive Manufacturing of Wood and Lignocellulosic Filled Composites. <b>2020</b> , 12,		18
1442	3D Printing of Fibre-Reinforced Thermoplastic Composites Using Fused Filament Fabrication-A Review. <b>2020</b> , 12,		37
1441	A continuum constitutive model for FDM 3D printed thermoplastics. <i>Composites Part B: Engineering</i> , <b>2020</b> , 201, 108373	10	23
1440	Investigation of the Mechanical Properties of a Carbon Fibre-Reinforced Nylon Filament for 3D Printing. <b>2020</b> , 8, 52		12
1439	A critical review on the fused deposition modeling of thermoplastic polymer composites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 201, 108336	10	96
1438	Design for Additive Manufacturing: A Systematic Review. <b>2020</b> , 12, 7936		30
1437	Open source high-temperature RepRap for 3-D printing heat-sterilizable PPE and other applications. <b>2020</b> , 8, e00130		15
1436	Tensile and Compressive Behavior in the Experimental Tests for PLA Specimens Produced via Fused Deposition Modelling Technique. <b>2020</b> , 4, 140		15
1435	Low solid loading, low viscosity, high uniform shrinkage ceramic resin for stereolithography based additive manufacturing. <b>2020</b> , 48, 749-754		2
1434	Effect of climatic conditions on the thermal conductivity of earth fuller. <b>2020</b> , 30, 183-189		1
1433	Reproducibility of sound-absorbing periodic porous materials using additive manufacturing technologies: Round robin study. <b>2020</b> , 36, 101564		13
1432	3D Printing of High-Performance Isocyanate Ester Thermosets. <b>2020</b> , 305, 2000397		5

1431	3D Printing of polymer composites with material jetting: Mechanical and fractographic analysis. <b>2020</b> , 36, 101558	13
1430	The rise of continuous flow biocatalysis [Fundamentals, very recent developments and future perspectives. <b>2020</b> , 5, 2155-2184	54
1429	Effects of laser scanning speed on surface roughness and mechanical properties of aluminum/Poly(lactic Acid (Al/PLA) composites parts fabricated by fused deposition modeling. <b>2020</b> , 91, 106785	7
1428	Design of a Bio-Based Device for Micro Total Analysis Combining Fused Deposition Modeling and Layer-by-Layer Technologies. <b>2020</b> , 305, 2000461	2
1427	Influence of orientation on mechanical properties for high-performance fused filament fabricated ultem 9085 and electro-statically dissipative polyetherketoneketone. <b>2020</b> , 36, 101527	2
1426	3D bioprinting and craniofacial regeneration. <b>2020</b> , 10, 650-659	8
1425	Flexural tensegrity of segmental beams. <b>2020</b> , 476, 20200062	5
1424	100th Anniversary of Macromolecular Science Viewpoint: Integrating Chemistry and Engineering to Enable Additive Manufacturing with High-Performance Polymers. <b>2020</b> , 9, 1119-1129	10
1423	Tailorable rigidity and energy-absorption capability of 3D printed continuous carbon fiber reinforced polyamide composites. <b>2020</b> , 199, 108337	23
1422	3D printing of biofiber-reinforced composites and their mechanical properties: a review. <b>2020</b> , 26, 1113-1129	6
1421	Selection of Polymer Materials for Micro Slide Bearings With Respect to Minimization of Resistance to Motion. <b>2020</b> , 8, 78622-78629	1
1420	Reinforced Gels and Elastomers for Biomedical and Soft Robotics Applications. <b>2020</b> , 2, 1073-1091	40
1419	Microporous Materials in Scalable Shapes: Fiber Sorbents [ <b>2020</b> , 32, 7081-7104	7
1418	Fabricating 3D printable BIR/PP TPV via masterbatch and interfacial compatibilization. <i>Composites Part B: Engineering</i> , <b>2020</b> , 199, 108220	10 8
1417	3D printing of glass by additive manufacturing techniques: a review. <b>2020</b> , 14, 263	13
1416	Discrete-Event Simulation Thermal Model for Extrusion-Based Additive Manufacturing of PLA and ABS. <b>2020</b> , 13,	6
1415	3D Printing for Hip Implant Applications: A Review. <b>2020</b> , 12,	17
1414	A Dexamethasone-Eluting Porous Scaffold for Bone Regeneration Fabricated by Selective Laser Sintering.. <b>2020</b> , 3, 8739-8747	6

1413	Advancements in Therapeutics via 3D Printed Multifunctional Architectures from Dispersed 2D Nanomaterial Inks. <b>2020</b> , 16, e2004900	12
1412	Experimental and finite element modeling of partial infill patterns for thermoplastic polymer extrusion 3D printed material using elasto-plastic method. <b>2020</b> ,	0
1411	Wave attenuation in elastic metamaterial thick plates: Analytical, numerical and experimental investigations. <b>2020</b> , 204-205, 138-152	21
1410	Recent Progress on Polymer Materials for Additive Manufacturing. <b>2020</b> , 30, 2003062	162
1409	Effects of Carbonyl Iron Powder (CIP) Content on the Electromagnetic Wave Absorption and Mechanical Properties of CIP/ABS Composites. <b>2020</b> , 12,	5
1408	3D Bioprinting in Tissue Engineering for Medical Applications: The Classic and the Hybrid. <b>2020</b> , 12,	36
1407	A 3D-printable, glucose-sensitive and thermoresponsive hydrogel as sacrificial materials for constructs with vascular-like channels. <b>2020</b> , 20, 100778	10
1406	3D printed scaffolds for biomedical applications. <b>2020</b> , 255, 123642	20
1405	Selective laser sintering of polyamide 12/flame retardant compositions. <b>2020</b> , 181, 109318	6
1404	Preparation of polycarbonate/poly(lactic acid) with improved printability and processability for fused deposition modeling. <b>2020</b> , 31, 2848-2862	9
1403	Changes in tribological and antibacterial properties of poly(methyl methacrylate)-based 3D-printed intra-oral appliances by incorporating nanodiamonds. <b>2020</b> , 110, 103992	11
1402	In-situ synthesis of 3D printable mono- and Bi-metallic (Cu/Ag) nanoparticles embedded polymeric structures with enhanced electromechanical properties. <b>2020</b> , 90, 106724	10
1401	Self-Healing Mechanisms for 3D-Printed Polymeric Structures: From Lab to Reality. <b>2020</b> , 12,	11
1400	Multiacrylated Cyclodextrin: A Bio-Derived Photocurable Macromer for VAT 3D Printing. <b>2020</b> , 305, 2000350	10
1399	Preparation of cation exchange filament for 3D membrane print. <b>2020</b> , 26, 1435-1445	2
1398	3D printing of composites: design parameters and flexural performance. <b>2020</b> , 26, 699-706	8
1397	Investigation of bone reconstruction using an attenuated immunogenicity xenogenic composite scaffold fabricated by 3D printing. <b>2020</b> , 3, 396-409	8
1396	Mode-II fracture of nanostitched para-aramid/phenolic nanoprepreg composites by end-notched flexure. <b>2020</b> , 54, 3537-3557	4

1395	DLP 3D Printing Meets Lignocellulosic Biopolymers: Carboxymethyl Cellulose Inks for 3D Biocompatible Hydrogels. <b>2020</b> , 12,	24
1394	Additive Manufacturing of Isotropic NdFeB PPS Bonded Permanent Magnets. <b>2020</b> , 13,	13
1393	Ink-Based Additive Nanomanufacturing of Functional Materials for Human-Integrated Smart Wearables. <b>2020</b> , 2, 2000117	9
1392	Preparation and characterization of new hybrid polymer composites from Phoenix pusilla fibers/E-glass/carbon fabrics on potential engineering applications: Effect of stacking sequence. <b>2020</b> , 41, 4572-4582	15
1391	Molecule editable 3D printed polymer-derived ceramics. <b>2020</b> , 422, 213486	23
1390	3D printing and testing of composite isogrid structures. <b>2020</b> , 109, 1881-1893	6
1389	Novel approaches for colorimetric measurements in analytical chemistry - A review. <b>2020</b> , 1135, 187-203	45
1388	Fused deposition modeling 3D printing of polyamide-based composites and its applications. <b>2020</b> , 21, 100413	53
1387	High dielectric constant UV curable polyurethane acrylate/indium tin oxide composites for capacitive sensing. <b>2020</b> , 199, 108363	14
1386	. <b>2020</b> ,	
1385	Smart Manufacturing Process of Carbon-Based Low-Dimensional Structures and Fiber-Reinforced Polymer Composites for Engineering Applications. <b>2020</b> , 29, 4162-4186	7
1384	Surface Laser-Marking and Mechanical Properties of Acrylonitrile-Butadiene-Styrene Copolymer Composites with Organically Modified Montmorillonite. <b>2020</b> , 5, 19255-19267	8
1383	Poly(lactic acid)-silkworm silk fibre/fibroin bio-composites: A review of their processing, properties, and nascent applications. <b>2020</b> , 14, 924-951	2
1382	An elegant coupling: Freeze-casting and versatile polymer composites. <b>2020</b> , 109, 101289	26
1381	Cellulose, hemicellulose, lignin, and their derivatives as multi-components of bio-based feedstocks for 3D printing. <b>2020</b> , 250, 116881	33
1380	Influence of energy density on selective laser sintering of carbon fiber-reinforced PA12. <b>2020</b> , 111, 2361-2376	6
1379	From polymers or colloids to polymers and colloids. <b>2020</b> , 298, 1609-1610	
1378	Synthesis of carbon from waste coconutshell and their application as filler in bioplast polymer filaments for 3D printing. <i>Composites Part B: Engineering</i> , <b>2020</b> , 202, 108428	10 7

1377	A Review on metal 3D printing; 3D welding. <b>2020</b> , 920, 012015	2
1376	Defending Industrial Production Using AI Process Control. <b>2020</b> ,	
1375	3D printed epoxy-CNTs/GNPs conductive inks with application in anti-icing and de-icing systems. <b>2020</b> , 141, 110090	13
1374	Layout Guidelines for 3D Printing Devices. <b>2020</b> , 10, 6333	0
1373	Bio-Inspired Toughening of Composites in 3D-Printing. <b>2020</b> , 13,	2
1372	Processing of Sr <sup>2+</sup> Containing Poly L-Lactic Acid-Based Hybrid Composites for Additive Manufacturing of Bone Scaffolds. <b>2020</b> , 7,	4
1371	Upconversion Nanocrystal Doped Polymer Fiber Thermometer. <b>2020</b> , 20,	2
1370	High sensitivity, broad linearity range and low detection limit flexible pressure sensors based on irregular surface microstructure. <b>2020</b> , 87, 105920	4
1369	Characterization of short fiber-reinforced polylactic acid composites produced with Fused Filament Fabrication (FFF). <b>2020</b> , 903, 012031	1
1368	Effect of Process Parameters on Tensile Mechanical Properties of 3D Printing Continuous Carbon Fiber-Reinforced PLA Composites. <b>2020</b> , 13,	27
1367	Implementing FDM 3D Printing Strategies Using Natural Fibers to Produce Biomass Composite. <b>2020</b> , 13,	27
1366	Processing and Characterization of Hollow Glass-Filled Polyamide 12 Composites by Selective Laser Sintering Method. <b>2020</b> , 1-11	6
1365	Large deformation and energy absorption of additively manufactured auxetic materials and structures: A review. <i>Composites Part B: Engineering</i> , <b>2020</b> , 201, 108340	10 79
1364	Favorable Thermoresponsive Shape Memory Effects of 3D Printed Poly(Lactic Acid)/Poly( $\epsilon$ -Caprolactone) Blends Fabricated by Fused Deposition Modeling. <b>2020</b> , 305, 2000295	15
1363	Covalent polymer functionalized graphene oxide/poly(ether ether ketone) composites for fused deposition modeling: improved mechanical and tribological performance.. <b>2020</b> , 10, 25685-25695	7
1362	Photocurable Elastomer Composites with SiO <sub>2</sub> -Mediated Cross-Links for Mechanically Durable 3D Printing Materials. <b>2020</b> , 2, 5228-5237	5
1361	Hot-Lithography SLA-3D Printing of Epoxy Resin. <b>2020</b> , 305, 2000325	11
1360	Benefits of Polydopamine as Particle/Matrix Interface in Polylactide/PD-BaSO Scaffolds. <b>2020</b> , 21,	5

1359	Design and Development of IoT-based Robot. <b>2020</b> ,	1
1358	Three-Dimensional Printed Lightweight Composite Foams. <b>2020</b> , 5, 22536-22550	12
1357	Selective laser sintering of carbon fiber reinforced PA12: Gaussian process modeling and stochastic optimization of process variables. <b>2020</b> , 110, 2049-2066	1
1356	3D-Printed Pseudo Ductile Fiber-Reinforced Polymer (FRP) Composite Using Discrete Fiber Orientations. <b>2020</b> , 8, 53	4
1355	Inkjet Bioprinting of Biomaterials. <b>2020</b> , 120, 10793-10833	103
1354	A Review of Stereolithography: Processes and Systems. <b>2020</b> , 8, 1138	54
1353	3D Printing of Continuous Fiber Reinforced Low Melting Point Alloy Matrix Composites: Mechanical Properties and Microstructures. <b>2020</b> , 13,	1
1352	Automated Control of a Femtosecond Laser Along the Surface of a Planar Sample. <b>2020</b> ,	0
1351	The Study of Physico-Mechanical Properties of Polylactide Composites with Different Level of Infill Produced by the FDM Method. <b>2020</b> , 12,	8
1350	Stereolithography 3D Printing from Suspensions Containing Titanium Dioxide. <b>2020</b> , 65, 1958-1964	2
1349	Impact Toughness of FRTP Composites Produced by 3D Printing. <b>2020</b> , 13,	3
1348	The Electric-Field-Driven Fusion Jetting 3D Printing for Fabricating High Resolution Polylactic Acid/Multi-Walled Carbon Nanotube Composite Micro-Scale Structures. <b>2020</b> , 11,	4
1347	Tensile Strength Analysis of Thin-Walled Polymer Glass Fiber Reinforced Samples Manufactured by 3D Printing Technology. <b>2020</b> , 12,	11
1346	Effect of process parameters on mechanical properties of 3D printed PLA lattice structures. <b>2020</b> , 3, 100076	12
1345	Quasi-Optical Resonant Single-Frequency Flaw Detector of Polymer Filament for 3D Printing. <b>2020</b> , 731, 012018	0
1344	Mechanical behavior and crack propagation of ABS 3D printed specimens. <b>2020</b> , 28, 1719-1726	3
1343	Controlled Arrangement of Nanocellulose in Polymeric Matrix: From Reinforcement to Functionality. <b>2020</b> ,	46
1342	Preparation and characterization of poly(lactic acid)/boehmite alumina composites for additive manufacturing. <b>2020</b> , 903, 012057	2

1341	Fabrication and Characterisation of Aligned Discontinuous Carbon Fibre Reinforced Thermoplastics as Feedstock Material for Fused Filament Fabrication. <b>2020</b> , 13,	5
1340	Current progress on the 3D printing of thermosets. <b>2020</b> , 3, 462-472	19
1339	Applications of Thermoplastic Polymers in 3D Printing. <b>2020</b> ,	3
1338	Design of high-resolution long working distance double-telecentric projection lens. <b>2020</b> ,	
1337	Rational design of hydrogels to enhance osteogenic potential. <b>2020</b> , 32, 9508-9530	5
1336	3D printing of CF/nylon composite mold for CF/epoxy parabolic antenna. <b>2020</b> , 15, 155892502096948	0
1335	3D-Printing Methods for Crystalline Polyetheretherketone. <b>2020</b> , 869, 466-473	
1334	Moisture effect on the mechanical properties of additively manufactured continuous carbon fiber-reinforced Nylon-based thermoplastic. <b>2020</b> , 41, 5227-5245	13
1333	3D Printing in Heterogeneous Catalysis-The State of the Art. <b>2020</b> , 13,	17
1332	4D printing with spin-crossover polymer composites. <b>2020</b> , 8, 6001-6005	15
1331	Comparison of Materials Used for 3D-Printing Temporal Bone Models to Simulate Surgical Dissection. <b>2020</b> , 129, 1168-1173	8
1330	3D-printed polymer packing structures: Uniformity of morphology and mechanical properties via microprocessing conditions. <b>2020</b> , 137, 49381	2
1329	Friction Riveting of 3D Printed Polyamide 6 with AA 6056-T6. <b>2020</b> , 47, 406-412	0
1328	Thermoelectric materials and devices fabricated by additive manufacturing. <b>2020</b> , 178, 109384	22
1327	Increasing Damping of Thin-Walled Structures Using Additively Manufactured Vibration Eliminators. <b>2020</b> , 13,	8
1326	Influence of Internal Innovative Architecture on the Mechanical Properties of 3D Polymer Printed Parts. <b>2020</b> , 12,	6
1325	Progress in Auxetic Mechanical Metamaterials: Structures, Characteristics, Manufacturing Methods, and Applications. <b>2020</b> , 22, 2000312	30
1324	A Modeling Method of Continuous Fiber Paths for Additive Manufacturing (3D Printing) of Variable Stiffness Composite Structures. <b>2020</b> , 27, 185-208	17

1323	Fabrication of New Thermoplastic Polyurethane Elastomers with High Heat Resistance for 3D Printing Derived from 3,3-Dimethyl-4,4'-diphenyl Diisocyanate. <b>2020</b> , 59, 10476-10482	14
1322	3D Printing of Delicately Controllable Cellular Nanocomposites Based on Polylactic Acid Incorporating Graphene/Carbon Nanotube Hybrids for Efficient Electromagnetic Interference Shielding. <b>2020</b> , 8, 7962-7972	30
1321	Manufacturing of Isogrid Composite Structures by 3D Printing. <b>2020</b> , 47, 1096-1100	11
1320	Strong, tough and bio-degradable polymer-based 3D-ink for fused filament fabrication (FFF) using WS nanotubes. <b>2020</b> , 10, 8892	10
1319	Finite element simulation of tensile test of composite materials manufactured by 3D printing. <b>2020</b> , 776, 012082	1
1318	Bioprinting: From Tissue and Organ Development to Models. <b>2020</b> , 120, 10547-10607	86
1317	The Use of Composite Materials in 3D Printing. <b>2020</b> , 4, 42	42
1316	WITHDRAWN: Binder jet 3D printing [Process parameters, materials, properties, and challenges]. <b>2020</b> , 100684	23
1315	Influence of the Degree of Cure in the Bulk Properties of Graphite Nanoplatelets Nanocomposites Printed via Stereolithography. <b>2020</b> , 12,	7
1314	3D-printed highly stable flexible strain sensor based on silver-coated-glass fiber-filled conductive silicon rubber. <b>2020</b> , 193, 108788	16
1313	Printing polymer blends through in situ active mixing during fused filament fabrication. <b>2020</b> , 36, 101233	5
1312	FE modeling of continuous fiber reinforced thermoplastic composite structures produced by additive manufacturing. <b>2020</b> , 776, 012080	1
1311	Bending behavior of optimally graded 3D printed cellular beams. <b>2020</b> , 35, 101327	2
1310	Reinforcing silicone with hemp fiber for additive manufacturing. <b>2020</b> , 194, 108139	18
1309	Experimental investigations into extrusion-based 3D printing of PCL/CIP composites for microwave shielding applications. <b>2020</b> , 089270572092513	1
1308	3D Printing of a Dual-Curing Resin with Cationic Curable Vegetable Oil. <b>2020</b> , 59, 11381-11388	9
1307	3D printing of biomass-derived composites: application and characterization approaches.. <b>2020</b> , 10, 21698-21733	33
1306	Experimental analysis of the tensile property of FFF-printed elastomers. <b>2020</b> , 90, 106687	9

1305	On-demand modulation of 3D-printed elastomers using programmable droplet inclusions. <b>2020</b> , 117, 14790-14797	18
1304	Mechanical anisotropy in polymer composites produced by material extrusion additive manufacturing. <b>2020</b> , 34, 101385	22
1303	Detecting first layer bond quality during FDM 3D printing using a discrete wavelet energy approach. <b>2020</b> , 48, 718-724	4
1302	A comprehensive review on polymeric hydrogel and its composite: Matrices of choice for bone and cartilage tissue engineering. <b>2020</b> , 89, 58-82	20
1301	Healthcare Applications of pH-Sensitive Hydrogel-Based Devices: A Review. <b>2020</b> , 15, 3887-3901	27
1300	3D-printed biosensors for electrochemical and optical applications. <b>2020</b> , 128, 115933	49
1299	Development of Polymeric Nanocomposite (Xyloglucan-co-Methacrylic Acid/Hydroxyapatite/SiO) Scaffold for Bone Tissue Engineering Applications-In-Vitro Antibacterial, Cytotoxicity and Cell Culture Evaluation. <b>2020</b> , 12,	18
1298	Coherent nanofiber array buckling-enabled synthesis of hierarchical layered composites with enhanced strength. <b>2020</b> , 39, 100773	0
1297	3D printing of engineering materials: A state of the art review. <b>2020</b> , 28, 1927-1931	13
1296	Flexural properties of 3D printed Copper-Filler Polylactic Acid (Cu-PLA). <b>2020</b> , 788, 012051	1
1295	Cytocompatibility of 3D printed dental materials for temporary restorations on fibroblasts. <b>2020</b> , 20, 157	5
1294	Study on the liquid crystal display mask photo-curing of photosensitive resin reinforced with graphene oxide. <b>2020</b> , 137, 49538	3
1293	Structural and performance comparison between SU-8 microfabricated and 3D-printed microneedle electrodes. <b>2020</b> , 4, 29-44	3
1292	General route to design polymer molecular weight distributions through flow chemistry. <b>2020</b> , 11, 3094	55
1291	Electromagnetic Wave Absorption Properties of Structural Conductive ABS Fabricated by Fused Deposition Modeling. <b>2020</b> , 12,	11
1290	Evolution of 3D Printing Methods and Materials for Electrochemical Energy Storage. <b>2020</b> , 32, e2000556	69
1289	On 4D printing as a revolutionary fabrication technique for smart structures. <b>2020</b> , 29, 083001	17
1288	Inorganic additives to augment the mechanical properties of 3D-printed systems. <b>2020</b> , 83-107	2

1287	Current Status and Prospects of Polymer Powder 3D Printing Technologies. <b>2020</b> , 13,	35
1286	Three-Dimensional Printing Constructs Based on the Chitosan for Tissue Regeneration: State of the Art, Developing Directions and Prospect Trends. <b>2020</b> , 13,	27
1285	Synergistic effect of loads and speeds on the dry sliding behaviour of fused filament fabrication 3D-printed acrylonitrile butadiene styrene pins with different internal geometries. <b>2020</b> , 108, 2525-2539	3
1284	Review on process model, structure-property relationship of composites and future needs in fused filament fabrication. <b>2020</b> , 39, 758-789	9
1283	In vitro modeling of the neurovascular unit: advances in the field. <b>2020</b> , 17, 22	55
1282	Additive manufacturing of functional polymer-based composite with enhanced mechanoluminescence (ZnS:Mn) performance. <b>2020</b> , 54, 3181-3188	3
1281	Development of a Wear-Resistant Extrudable Composite Material Based on an Ultrahigh-Molecular Polyethylene with Predetermined Properties. <b>2020</b> , 56, 15-26	5
1280	Additive Manufacturing of Epoxy Resins: Materials, Methods, and Latest Trends. <b>2020</b> , 59, 6375-6390	18
1279	Material Property-Manufacturing Process Optimization for Form 2 Vat-Photo Polymerization 3D Printers. <b>2020</b> , 4, 12	7
1278	Review of Polymer Composites with Diverse Nanofillers for Electromagnetic Interference Shielding. <b>2020</b> , 10,	59
1277	Recent progress in 3D printing of fiber-reinforced composite and nanocomposites. <b>2020</b> , 371-394	8
1276	Smart Textiles for Electricity Generation. <b>2020</b> , 120, 3668-3720	349
1275	Effect of density and unit cell size grading on the stiffness and energy absorption of short fibre-reinforced functionally graded lattice structures. <b>2020</b> , 33, 101171	27
1274	Investigation on process parameters of 3D printed continuous carbon fiber-reinforced thermosetting epoxy composites. <b>2020</b> , 33, 101184	17
1273	3D Printed Thermoplastic Polyurethane Filled with Polyurethane Foams Residues. <b>2020</b> , 28, 1560-1570	13
1272	Mechanical investigation and optimization of parameter selection for Nylon material processed by FDM. <b>2020</b> ,	16
1271	Nanomaterial Patterning in 3D Printing. <b>2020</b> , 32, e1907142	72
1270	Development of a 3D Printer for Concrete Structures: Laboratory Testing of Cementitious Materials. <b>2020</b> , 14,	13

1269	An investigation of post treatment on properties and structure of ultrahigh molecular weight polyethylene parts prepared by selective laser sintering for biomedical application. <b>2020</b> , 31, 1484-1495	2
1268	Lignin-Based Direct Ink Printed Structural Scaffolds. <b>2020</b> , 16, e1907212	20
1267	A review of 3D and 4D printing of natural fibre biocomposites. <b>2020</b> , 194, 108911	57
1266	Reverse engineering of additive manufactured composite part by toolpath reconstruction using imaging and machine learning. <b>2020</b> , 198, 108318	18
1265	3D printing of modified soybean hull fiber/polymer composites. <b>2020</b> , 254, 123452	15
1264	Forging C/Thermoplastic Printed Composite, Shaping Parameters Impact. <b>2020</b> , 47, 169-173	1
1263	Recent Advances on the Design Automation for Performance-Optimized Fiber Reinforced Polymer Composite Components. <b>2020</b> , 4, 61	5
1262	Powder-Based 3D Printing for the Fabrication of Device with Micro and Mesoscale Features. <b>2020</b> , 11,	29
1261	Mechanical Anisotropy and Surface Roughness in Additively Manufactured Parts Fabricated by Stereolithography (SLA) Using Statistical Analysis. <b>2020</b> , 13,	8
1260	Smart polymers and nanocomposites for 3D and 4D printing. <b>2020</b> , 40, 215-245	59
1259	Applications of Bacillus subtilis Spores in Biotechnology and Advanced Materials. <b>2020</b> , 86,	12
1258	Accounts in 3D-Printed Electrochemical Sensors: Towards Monitoring of Environmental Pollutants. <b>2020</b> , 7, 3404-3413	24
1257	Performance of Short Fiber Interlayered Reinforcement Thermoplastic Resin in Additive Manufacturing. <b>2020</b> , 13,	9
1256	Direct Ink Writing Technology (3D Printing) of Graphene-Based Ceramic Nanocomposites: A Review. <b>2020</b> , 10,	31
1255	A mechanistic model for tensile property of continuous carbon fiber reinforced plastic composites built by fused filament fabrication. <b>2020</b> , 32, 101102	9
1254	Effect of burying sintering on the properties of ceramic cores via 3D printing. <b>2020</b> , 57, 380-388	7
1253	Innovative processing route combining fused deposition modelling and laser writing for the manufacturing of multifunctional polyamide/carbon fiber composites. <b>2020</b> , 193, 108869	7
1252	Empowering microfluidics by micro-3D printing and solution-based mineral coating. <b>2020</b> , 16, 6841-6849	4

1251	Tailored crystalline structure and enhanced impact strength of isotactic polypropylene/high-density polyethylene blend by controlling the printing speed of fused filament fabrication. <b>2020</b> , 55, 14058-14073	8
1250	Development of eco-friendly composites based on polypropylene and cellulose for additive manufacturing (fused deposition modeling). <b>2020</b> ,	
1249	Strategy for enhancing mechanical properties and bone regeneration of 3D polycaprolactone kagome scaffold: Nano hydroxyapatite composite and its exposure. <b>2020</b> , 134, 109814	8
1248	Additive manufacturing methods: techniques, materials, and closed-loop control applications. <b>2020</b> , 109, 17-31	15
1247	Influence of thermal ageing on the fracture and lifetime of additively manufactured mold inserts. <b>2020</b> , 115, 104694	11
1246	A state-of-the-art review on particulate wood polymer composites: Processing, properties and applications. <b>2020</b> , 89, 106721	21
1245	A new bio-based fibre-reinforced polymer obtained from sheep wool short fibres and PLA. <b>2020</b> , 8, 79-91	5
1244	Additive manufacturing/3D printing of polymer nanocomposites: structure-related multifunctional properties. <b>2020</b> , 87-113	1
1243	Influence of printing parameters and filament quality on structure and properties of polymer composite components used in the fields of automotive. <b>2020</b> , 303-330	7
1242	Effect of fiber diameter on thermal properties of short-glass-fiber-reinforced PTFE-based composites. <b>2020</b> , 31, 10715-10723	6
1241	Flash ablation metallization of conductive thermoplastics. <b>2020</b> , 36, 101409	3
1240	The Effects of Post Heat Treatment on the Microstructural and Mechanical Properties of an Additive-Manufactured Porous Titanium Alloy. <b>2020</b> , 13,	7
1239	Recent Progress in 3D Printed Mold-Based Sensors. <b>2020</b> , 20,	21
1238	3D Assembly of Graphene Nanomaterials for Advanced Electronics. <b>2020</b> , 2, 1900151	7
1237	Additive manufacturing for energy storage: Methods, designs and material selection for customizable 3D printed batteries and supercapacitors. <b>2020</b> , 20, 46-53	29
1236	Exfoliated graphene/thermoplastic elastomer nanocomposites with improved wear properties for 3D printing. <i>Composites Part B: Engineering</i> , <b>2020</b> , 189, 107912	10 17
1235	Controllable inter-line bonding performance and fracture patterns of continuous fiber reinforced composites by sinusoidal-path 3D printing. <b>2020</b> , 192, 108096	15
1234	Grand challenges in the design and manufacture of vascular self-healing. <b>2020</b> , 3, 013001	11

1233	Microstructural design, manufacturing and dual-scale modelling of an adaptable porous composite sound absorber. <i>Composites Part B: Engineering</i> , <b>2020</b> , 187, 107833	10	21
1232	Fracture and mechanical properties of lightweight alumina ceramics prepared by fused filament fabrication. <b>2020</b> , 40, 4837-4843		12
1231	Optimal orientation of fibre composites for strength based on Hashin's criteria optimality conditions. <b>2020</b> , 61, 2155-2176		10
1230	3D printing of hydrogels: Rational design strategies and emerging biomedical applications. <b>2020</b> , 140, 100543		241
1229	Development of an embossed nanofiber hemodialysis membrane for improving capacity and efficiency via 3D printing and electrospinning technology. <b>2020</b> , 241, 116657		11
1228	Tensile failure strength and separation angle of FDM 3D printing PLA material: Experimental and theoretical analyses. <i>Composites Part B: Engineering</i> , <b>2020</b> , 188, 107894	10	74
1227	Effect of microwave treatment on bending properties of carbon nanotube/wood plastic composites by selective laser sintering. <b>2020</b> , 267, 127547		11
1226	In silico rational design by molecular modeling of new ketones as photoinitiators in three-component photoinitiating systems: application in 3D printing. <b>2020</b> , 11, 2230-2242		43
1225	3D-Printed lightweight ceramics using capillary suspensions with incorporated nanoparticles. <b>2020</b> , 40, 3140-3147		10
1224	Enhancing the Low-Frequency Induction Heating Effect of Magnetic Composites for Medical Applications. <b>2020</b> , 12,		7
1223	Addressing present pitfalls in 3D printing for tissue engineering to enhance future potential. <b>2020</b> , 4, 010901		15
1222	3D Printing in analytical sample preparation. <b>2020</b> , 43, 1854-1866		16
1221	Progressive damage simulation for a 3D-printed curvilinear continuous carbon fiber-reinforced thermoplastic based on continuum damage mechanics. <b>2020</b> , 29, 459-474		10
1220	Investigations of the mechanical properties on different print orientations in SLA 3D printed resin. <b>2020</b> , 234, 2279-2293		11
1219	Bioinks and bioprinting: A focused review. <b>2020</b> , 18, e00080		66
1218	A survey of design methods for material extrusion polymer 3D printing. <b>2020</b> , 15, 148-162		28
1217	Additive Manufacturing with Strontium Hexaferrite-Photoresist Composite. <b>2020</b> , 1-1		5
1216	Advances in Orthotic and Prosthetic Manufacturing: A Technology Review. <b>2020</b> , 13,		56

1215	3D printing biocompatible l-Arg/GNPs/PLA nanocomposites with enhanced mechanical property and thermal stability. <b>2020</b> , 55, 5064-5078	16
1214	Topological prime. <b>2020</b> , 63, 1314-1322	5
1213	Recent developments in polymers/polymer nanocomposites for additive manufacturing. <b>2020</b> , 111, 100638	118
1212	Layer-by-Layer Printing of Photopolymers in 3D: How Weak is the Interface?. <b>2020</b> , 12, 8908-8914	34
1211	Highly tunable bioadhesion and optics of 3D printable PNIPAm/cellulose nanofibrils hydrogels. <b>2020</b> , 234, 115898	28
1210	Rapid development of dual porous poly(lactic acid) foam using fused deposition modeling (FDM) 3D printing for medical scaffold application. <b>2020</b> , 110, 110693	38
1209	Static and Dynamic Mechanical Properties of 3D Printed ABS as a Function of Raster Angle. <b>2020</b> , 13,	27
1208	Two coatings that enhance mechanical properties of fused filament-fabricated carbon-fiber reinforced composites. <b>2020</b> , 32, 101105	6
1207	3D Printing of polytetrafluoroethylene microstructures: A route to superhydrophobic surfaces and devices. <b>2020</b> , 19, 100580	13
1206	Searching for Rheological Conditions for FFF 3D Printing with PVC Based Flexible Compounds. <b>2020</b> , 13,	19
1205	Mechanical Characterization of the Plastic Material GF-PA6 Manufactured Using FDM Technology for a Compression Uniaxial Stress Field via an Experimental and Numerical Analysis. <b>2020</b> , 12,	14
1204	3D Printing On-Water Sports Boards with Bio-Inspired Core Designs. <b>2020</b> , 12,	19
1203	A review of emerging trends in membrane science and technology for sustainable water treatment. <b>2020</b> , 266, 121867	80
1202	From aviation to automotive - a study on material selection and its implication on cost and weight efficient structural composite and sandwich designs. <b>2020</b> , 6, e03716	16
1201	Mechanical evaluation of polymeric filaments and their corresponding 3D printed samples. <b>2020</b> , 88, 106561	9
1200	Additive manufacturing of Portland cement pastes with additions of kaolin, superplastificant and calcium carbonate. <b>2020</b> , 248, 118669	10
1199	Flexoskeleton Printing Enables Versatile Fabrication of Hybrid Soft and Rigid Robots. <b>2020</b> , 7, 770-778	9
1198	Trends in 3D Printing Processes for Biomedical Field: Opportunities and Challenges. <b>2020</b> , 28, 1345-1367	49

1197	Additive-manufactured (3D-printed) electrochemical sensors: A critical review. <b>2020</b> , 1118, 73-91	127
1196	Effect of particle size distribution on obtaining novel MnAlC-based permanent magnet composites and flexible filaments for 3D-printing. <b>2020</b> , 33, 101179	2
1195	Optimization of fused deposition modeling parameters for improved PLA and ABS 3D printed structures. <b>2020</b> , 3, 284-297	60
1194	Rupture of 3D-printed hyperelastic composites: Experiments and phase field fracture modeling. <b>2020</b> , 140, 103941	16
1193	Direct Ink Writing Glass: A Preliminary Step for Optical Application. <b>2020</b> , 13,	7
1192	Mechanical and Geometric Performance of PLA-Based Polymer Composites Processed by the Fused Filament Fabrication Additive Manufacturing Technique. <b>2020</b> , 13,	18
1191	Current status and future directions of fused filament fabrication. <b>2020</b> , 55, 288-306	73
1190	Orthotropic elastic behaviors and yield strength of fused deposition modeling materials: Theory and experiments. <b>2020</b> , 87, 106520	7
1189	3D printing of structured electrodes for rechargeable batteries. <b>2020</b> , 8, 10670-10694	48
1188	A Review of 3D Printing Technologies for Soft Polymer Materials. <b>2020</b> , 30, 2000187	148
1187	Facile Photo and Thermal Two-Stage Curing for High-Performance 3D Printing of Poly(Dimethylsiloxane). <b>2020</b> , 41, e2000064	14
1186	Strength Improvement of Additive Manufacturing Components by Reinforcing Carbon Fiber and by Employing Bioinspired Interlock Sutures. <b>2020</b> , 26, 511-523	11
1185	Engineered three-dimensional scaffolds for enhanced bone regeneration in osteonecrosis. <b>2020</b> , 5, 584-601	76
1184	Multi-scale process simulation for additive manufacturing through particle filled vat photopolymerization. <b>2020</b> , 180, 109647	13
1183	3D printing of titanium-coated gradient composite lattices for lightweight mandibular prosthesis. <i>Composites Part B: Engineering</i> , <b>2020</b> , 193, 108057	10 26
1182	Direct ink writing of surface-modified flax elastomer composites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 194, 108061	10 10
1181	High performances of plant fiber reinforced composites: A new insight from hierarchical microstructures. <b>2020</b> , 194, 108151	52
1180	A robust 3D printed multilayer conductive graphene/polycaprolactone composite electrode. <b>2020</b> , 4, 1664-1670	5

1179	Expanding Puck and Schürmann Inter Fiber Fracture Criterion for Fiber Reinforced Thermoplastic 3D-Printed Composite Materials. <b>2020</b> , 13,		5
1178	An analytical model of through-thickness photopolymerisation of composites: Ultraviolet light transmission and curing kinetics. <i>Composites Part B: Engineering</i> , <b>2020</b> , 191, 107963	10	4
1177	Study on flexural and tensile behavior of PLA, ABS and PLA-ABS materials. <b>2021</b> , 45, 1175-1180		7
1176	Selecting spare parts suitable for additive manufacturing: a design science approach. <b>2021</b> , 32, 670-687		11
1175	Development of Polymer Composites by Additive Manufacturing Process. <b>2021</b> , 804-814		1
1174	A review on the various processing parameters in FDM. <b>2021</b> , 37, 509-514		44
1173	Rational design of two-dimensional nanofillers for polymer nanocomposites toward multifunctional applications. <b>2021</b> , 115, 100708		49
1172	Impact resistance and failure mechanism of 3D printed continuous fiber-reinforced cellular composites. <b>2021</b> , 112, 752-766		14
1171	Binder jet 3D printing Process parameters, materials, properties, modeling, and challenges. <b>2021</b> , 119, 100707		121
1170	Influence of fused filament fabrication parameters on tensile properties of polylactide/layered silicate nanocomposite using response surface methodology. <b>2021</b> , 138, 50174		2
1169	Multi-Scale modelling of structure-property relationship in additively manufactured metallic materials. <b>2021</b> , 194, 106185		9
1168	The fabrication of long carbon fiber reinforced polylactic acid composites via fused deposition modelling: Experimental analysis and machine learning. <b>2021</b> , 55, 1459-1472		7
1167	Mechanics of nozzle clogging during direct ink writing of fiber-reinforced composites. <b>2021</b> , 37, 101701		8
1166	3D inkjet printing of biomaterials: Principles and applications. <b>2021</b> , 4, e10143		1
1165	Effects of non-covalent interactions on the properties of 3D printed flexible piezoresistive strain sensors of conductive polymer composites. <b>2021</b> , 28, 577-591		7
1164	Functional fillers in composite filaments for fused filament fabrication; a review. <b>2021</b> , 37, 4031-4043		11
1163	Effects of Processing Parameters of 3D Bioprinting on the Cellular Activity of Bioinks. <b>2021</b> , 21, e2000179		17
1162	Nano-biomaterials for designing functional bioinks towards complex tissue and organ regeneration in 3D bioprinting. <b>2021</b> , 37, 101639		9

1161	Ferric ion crosslinking-based 3D printing of a graphene oxide hydrogel and its evaluation as a bio-scaffold in tissue engineering. <b>2021</b> , 118, 1006-1012	3
1160	A review on spacers and membranes: Conventional or hybrid additive manufacturing?. <b>2021</b> , 188, 116497	20
1159	Use of additive manufacturing for the fabrication of cellular and lattice materials: a review. <b>2021</b> , 36, 257-280	9
1158	Al foams manufactured by PLA replication and sacrifice. <b>2021</b> , 4, 62-66	1
1157	Morphology and mechanical properties of poly (acrylonitrile-butadiene-styrene)/multi-walled carbon nanotubes nanocomposite specimens prepared by fused deposition modeling. <b>2021</b> , 42, 342-352	1
1156	Morphological and mechanical characterization of 3D printed PLA scaffolds with controlled porosity for trabecular bone tissue replacement. <b>2021</b> , 118, 111528	25
1155	Compressive behaviour of 3D printed sandwich structures based on corrugated core design. <b>2021</b> , 26, 101725	4
1154	Impact of metal additives on particle emission profiles from a fused filament fabrication 3D printer. <b>2021</b> , 244, 117956	15
1153	Preparation and modification of an embossed nanofibrous materials for robust filtration performance of PM0.2 removal. <b>2021</b> , 93, 339-350	5
1152	Laser-based additively manufactured polymers: a review on processes and mechanical models. <b>2021</b> , 56, 961-998	29
1151	Advanced technologies in periodontal tissue regeneration based on stem cells: Current status and future perspectives. <b>2021</b> , 16, 501-507	4
1150	3D-printing of segregated carbon nanotube/polylactic acid composite with enhanced electromagnetic interference shielding and mechanical performance. <b>2021</b> , 197, 109222	24
1149	Fused filament fabrication of polymer materials: A review of interlayer bond. <b>2021</b> , 37, 101658	27
1148	Robust three-dimensionally printed polypropylene/highly sulfonated polysulfone composites for potential applications in fuel cells. <b>2021</b> , 45, 4224-4238	1
1147	3D printing technology as innovative solutions for biomedical applications. <b>2021</b> , 26, 360-383	17
1146	Effect of 3D printing process parameters on the impact strength of onyx [G]lass fiber reinforced composites. <b>2021</b> , 45, 6154-6159	4
1145	A review on additive manufacturing of polymers composites. <b>2021</b> , 44, 4150-4157	7
1144	Functional 3D printing: Approaches and bioapplications. <b>2021</b> , 175, 112849	32

1143	Structure design influencing the mechanical performance of 3D printing porous ceramics. <b>2021</b> , 47, 8389-8397	6
1142	Porous polymeric membranes: fabrication techniques and biomedical applications. <b>2021</b> , 9, 2129-2154	14
1141	Ceria-Incorporated Biopolymer for Preventing Fungal Adhesion. <b>2021</b> , 7, 1808-1816	1
1140	Photo-crosslinkable hydrogel and its biological applications. <b>2021</b> , 32, 1603-1614	15
1139	Reinforcing polypropylene with graphene-poly(lactic acid) microcapsules for fused-filament fabrication. <b>2021</b> , 198, 109329	12
1138	Determining process-window for manufacturing of continuous carbon fiber-reinforced composite Using 3D-printing. <b>2021</b> , 36, 409-418	15
1137	Additive manufacturing of non-planar layers with variable layer height. <b>2021</b> , 37, 101697	3
1136	Contact stress analysis of metallic and additive manufacturing material in transmission. <b>2021</b> , 44, 573-578	0
1135	High strength porous PLA gyroid scaffolds manufactured via fused deposition modeling for tissue-engineering applications. <b>2021</b> , 2, 15-25	22
1134	Hydrogel-Based Sensor Networks: Compositions, Properties, and Applications-A Review.. <b>2021</b> , 4, 140-162	32
1133	Thermo-resistive and thermo-piezoresistive sensitivity of carbon nanostructure engineered thermoplastic composites processed via additive manufacturing. <b>2021</b> , 93, 106961	5
1132	Additive Manufactured Carbon Nanotube/Epoxy Nanocomposites for Heavy-Duty Applications. <b>2021</b> , 3, 93-97	6
1131	Application and prospective of 3D printing in rock mechanics: A review. <b>2021</b> , 28, 1-17	5
1130	Comparison of hardness and polishability of various occlusal splint materials. <b>2021</b> , 115, 104270	7
1129	Additive Manufacturable Materials for Electrochemical Biosensor Electrodes. <b>2021</b> , 31, 2006407	25
1128	Medical application of biomimetic 4D printing. <b>2021</b> , 47, 521-534	10
1127	Geometrically toughening mechanism of cellular composites inspired by Fibonacci lattice in <i>Liquidambar formosana</i> . <b>2021</b> , 262, 113349	0
1126	Comprehensive study and analysis of mechanical properties of chopped carbon fibre reinforced nylon 66 composite materials. <b>2021</b> , 44, 4596-4601	2

1125	PET-RAFT facilitated 3D printable resins with multifunctional RAFT agents. <b>2021</b> , 5, 2271-2282		17
1124	Cryo-3D Printing of Hierarchically Porous Polyhydroxymethylene Scaffolds for Hard Tissue Regeneration. <b>2021</b> , 306, 2000541		4
1123	A comparison of the degradation behaviour of 3D printed PDLGA scaffolds incorporating bioglass or biosilica. <b>2021</b> , 120, 111755		8
1122	4D Printing Elastic Composites for Strain-Tailored Multistable Shape Morphing. <b>2021</b> , 13, 12719-12725		9
1121	Evaluation of 3D PLLA scaffolds coated with nano-thick collagen as carrier for hepatocytes. <b>2021</b> , 109, 723-732		1
1120	Load-dependent path planning method for 3D printing of continuous fiber reinforced plastics. <b>2021</b> , 140, 106181		14
1119	Experimental and computational analysis of structure-property relationship in carbon fiber reinforced polymer composites fabricated by selective laser sintering. <i>Composites Part B: Engineering</i> , <b>2021</b> , 204, 108499	10	19
1118	Influence of debinding holding time on mechanical properties of 3D-printed alumina ceramic cores. <b>2021</b> , 47, 4884-4894		10
1117	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. <b>2021</b> , 143, 106007		55
1116	Printing Multi-Material Organic Haptic Actuators. <b>2021</b> , 33, e2002541		18
1115	Recent progress and multifunctional applications of 3D printed graphene nanocomposites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 204, 108493	10	33
1114	Methods and materials for additive manufacturing: A critical review on advancements and challenges. <b>2021</b> , 159, 107228		35
1113	. <b>2021</b> , 18, 269-281		3
1112	Buckling behavior of 3D printed composite isogrid structures. <b>2021</b> , 99, 375-380		1
1111	Design and Development of a Robotic Hand with Embedded Sensors Using 3D Printing Technology. <b>2021</b> , 6, 273		0
1110	Polymer Materials Reinforced with Silicon Nitride Particles for 3D Printing. <b>2021</b> , 59, 515-527		4
1109	Processing of bio-based polymers. <b>2021</b> , 151-189		0
1108	3D printing composite materials: A comprehensive review. <b>2021</b> , 65-115		0

1107	Study on the influence of technological parameters on 3D printing with sla technology. <b>2021</b> , 343, 01003	0
1106	3D printing biomimetic materials and structures for biomedical applications. <b>2021</b> , 4, 405-428	18
1105	Additive manufacturing of 316L stainless-steel structures using fused filament fabrication technology: mechanical and geometric properties. <b>2021</b> , 27, 583-591	10
1104	3D Printing Methods Applicable in Oral and Maxillofacial Surgery. <b>2021</b> , 11-60	0
1103	An overview on additive manufacturing of biopolymer nanocomposites. <b>2021</b> , 687-708	
1102	Impact of Additive Manufacturing in Value Creation, Methods, Applications and Challenges. <b>2021</b> , 543-554	0
1101	3D Printing of Continuous Natural Fibre Reinforced Biocomposites for Structural Applications. <b>2021</b> , 205-218	
1100	Tissue Engineering in Musculoskeletal Tissue: A Review of the Literature. <b>2021</b> , 2, 58-82	1
1099	TRENDING APPLICATIONS AND MECHANICAL PROPERTIES OF 3D PRINTING: A REVIEW. <b>2021</b> , 11, 22	2
1098	A review on the fused deposition modeling (FDM) 3D printing: Filament processing, materials, and printing parameters. <b>2021</b> , 11, 639-649	39
1097	Fabrication, characterisation and properties of polyvinyl alcohol/graphene nanocomposite for fused filament fabrication processing. <b>2021</b> , 50, 263-275	3
1096	Additive Manufacturing of Nylon Parts and Implication Study on Change in Infill Densities and Structures. <b>2021</b> , 245-260	
1095	Design and Manufacture of 3D-Printed Batteries. <b>2021</b> , 5, 89-114	30
1094	3D printed anti-icing and de-icing system based on CNT/GNP doped epoxy composites with self-curing and structural health monitoring capabilities. <b>2021</b> , 30, 025016	4
1093	Additive Manufacturing of Polymer Matrix Composites. <b>2021</b> , 1013-1028	3
1092	Introduction to Wood Polymer Composites. <b>2021</b> , 1-20	1
1091	Evaluation of Technologies for the Fabrication of Continuous Fiber Reinforced Thermoplastic Parts by Fused Layer Modeling. <b>2021</b> , 125-141	2
1090	Essential work of fracture assessment of acrylonitrile butadiene styrene (ABS) processed via fused filament fabrication additive manufacturing. <b>2021</b> , 113, 771-784	2

1089	Nanocomposite biomaterials made by 3D printing: Achievements and challenges. <b>2021</b> , 675-685	1
1088	Modelling the Process of Fused Deposition Modelling and the Effect of Temperature on the Mechanical, Roughness, and Porosity Properties of Resulting Composite Products. <b>2021</b> , 56, 805-816	4
1087	Recipe Development and Mechanical Characterization of Carbon Fibre Reinforced Recycled Polypropylene 3D Printing Filament. <b>2021</b> , 11, 47-61	2
1086	Thermal and Morphological Analyses of Polymer Matrix Composites. <b>2021</b> , 1038-1068	2
1085	Composites Based on Shape Memory Materials. <b>2021</b> , 603-637	0
1084	Compression of Printed CFRT Composite: Shaping Parameters and Material Health. <b>2021</b> , 1087-1097	
1083	Experimental characterization of mechanical properties and microstructure study of polycarbonate (PC) reinforced acrylonitrile-butadiene-styrene (ABS) composite with varying PC loadings. <b>2021</b> , 8, 18-28	2
1082	Residual stresses in additive manufacturing of polymers and polymer matrix composites. <b>2021</b> , 421-436	1
1081	Simulation in Unique Surgical Challenges. <b>2021</b> , 145-151	
1080	Development of a high temperature printable composite for microwave absorption applications. <b>2021</b> , 8, 739-747	1
1079	Role of Additive Manufacturing in Industry 4.0 for Maintenance Engineering. <b>2021</b> , 709-728	2
1078	Development of three-dimensional printing filaments based on poly(lactic acid)/hydroxyapatite composites with potential for tissue engineering. <b>2021</b> , 55, 2289-2300	5
1077	Charpy impact energy absorption of 3D printed continuous Kevlar reinforced composites. <b>2021</b> , 55, 1705-1713	7
1076	Additive manufacturing of multifunctional materials. <b>2021</b> , 25-42	1
1075	3D Printing Supports COVID-19 Pandemic Control. <b>2021</b> , 189-203	
1074	Metallic Biomaterials in Tissue Engineering: Retrospect and Prospects. <b>2021</b> , 19-60	1
1073	Fabrication of PLA-HAp-CS Based Feed-Stock Filament by Twin-Screw Extrusion Using Matrix Co-Relation. <b>2021</b> ,	
1072	Status and prospect of in situ and operando characterization of solid-state batteries. <b>2021</b> , 14, 4672-4711	13

1071	A systematic and bibliometric analysis on 3D printing published in scientific citation index-expanded indexed journals between 1999 and 2019. <b>2021</b> , 44, 1739-1743	2
1070	3D/4D printed tunable electrical metamaterials with more sophisticated structures. <b>2021</b> , 9, 12010-12036	4
1069	Biomanufacturing. <b>2021</b> , 137-170	0
1068	Design of 3D Printing Thermo-Sensored Medical Gear in Detecting COVID-19 Symptoms. <b>2021</b> , 11, 419	1
1067	Structural and functional applications of 3D-printed graphene-based architectures. <b>2021</b> , 56, 9007-9046	5
1066	One-step preparation of poly(NIPAM-pyrrole) electroconductive composite hydrogel and its dielectric properties. <b>2021</b> , 138, 50527	0
1065	Fused filament printing of specialized biomedical devices: a state-of-the art review of technological feasibilities with PEEK. <b>2021</b> , 27, 592-616	11
1064	Additive Manufacturing: Post Processing Methods and Challenges. 39, 21-42	2
1063	Hybrid Auxetic Structures: Structural Optimization and Mechanical Characterization. <b>2021</b> , 23, 2001393	5
1062	Interpolation of tensile properties of polymer composite based on Polyjet 3D printing. 1	3
1061	Resistance Temperature Detectors Fabricated via Dual Fused Deposition Modeling of Polylactic Acid and Polylactic Acid/Carbon Black Composites. <b>2021</b> , 21,	1
1060	Thermoelectrics. <b>2021</b> , 327-350	0
1059	A general isogeometric polar approach for the optimisation of variable stiffness composites: Application to eigenvalue buckling problems. <b>2021</b> , 153, 103574	10
1058	A review of the mechanical properties of additively manufactured fiber reinforced composites. <b>2021</b> , 1067, 012105	4
1057	A review of factors that influence the fracture toughness of extrusion-based additively manufactured polymer and polymer composites. <b>2021</b> , 38, 101830	4
1056	3D Plotting of Silica/Collagen Xerogel Granules in an Alginate Matrix for Tissue-Engineered Bone Implants. <b>2021</b> , 14,	4
1055	Advanced robotics and additive manufacturing of composites: towards a new era in Industry 4.0. 1-35	30
1054	Graphene-reinforced polymer matrix composites fabricated by in situ shear exfoliation of graphite in polymer solution: processing, rheology, microstructure, and properties. <b>2021</b> , 32, 175703	0

1053	Thermal coefficients of Earth fuller reinforced with nano-oxide particles. <b>2021</b> , 2, 010024	1
1052	3D Printing of Functional Composites with Strain Sensing and Self-Heating Capabilities. <b>2021</b> , 69-89	
1051	UV-Assisted 3D Printing of Polymer Composites from Thermally and Mechanically Recycled Carbon Fibers. <b>2021</b> , 13,	12
1050	Dynamic Mechanical Analysis of 3D Printed PETG Material. <b>2021</b> , 1057, 012031	3
1049	Challenges and Innovations in Osteochondral Regeneration: Insights from Biology and Inputs from Bioengineering toward the Optimization of Tissue Engineering Strategies. <b>2021</b> , 12,	3
1048	Bending control and stability of functionally graded dielectric elastomers. <b>2021</b> , 43, 101162	1
1047	Fused Filament Fabrication-4D-Printed Shape Memory Polymers: A Review. <b>2021</b> , 13,	9
1046	Modeling the Mechanobiology of Cancer Cell Migration Using 3D Biomimetic Hydrogels. <b>2021</b> , 7,	7
1045	Mechanical properties of thermoplastic parts produced by fused deposition modeling:a review. <b>2021</b> , 27, 537-561	11
1044	Three-dimensional printing of locally bendable short carbon fiber reinforced polymer composites. <b>2021</b> , 4, 264-264	4
1043	Leveraging the Advantages of Additive Manufacturing to Produce Advanced Hybrid Composite Structures for Marine Energy Systems. <b>2021</b> , 11, 1336	0
1042	3D printing of silk powder by Binder Jetting technique. <b>2021</b> , 38, 101820	5
1041	In state of art: Mechanical behavior of natural fiber-based hybrid polymeric composites for application of automobile components. <b>2021</b> , 42, 2678	10
1040	Metal Material, Properties and Design Methods of Porous Biomedical Scaffolds for Additive Manufacturing: A Review. <b>2021</b> , 9, 641130	15
1039	Characterization of the resistance to abrasive chemical agents of test specimens of thermoplastic elastomeric polyurethane composite materials produced by additive manufacturing. <b>2021</b> , 138, 50791	0
1038	Process parameters and mechanical properties of continuous glass fiber reinforced composites-poly(lactic acid) by fused deposition modeling. <b>2021</b> , 40, 686-698	3
1037	Examining Port Geometry/Solid Loading for Additively Manufactured Fuels in Hybrid Rockets. <b>2021</b> , 37, 305-313	3
1036	Application of FBG Technology in Additive Manufacturing: Monitoring Real-Time Internal Temperature of Products. <b>2021</b> , 21, 6003-6011	3

1035	A process-structure-performance modeling for thermoplastic polymers via material extrusion additive manufacturing. <b>2021</b> , 39, 101857	3
1034	Study on performances of graphite-filled polypropylene/polyamide 6 composites manufactured by fused deposition modeling. <b>2021</b> , 138, 50751	0
1033	Solvent evaporation induced fabrication of porous polycaprolactone scaffold via low-temperature 3D printing for regeneration medicine researches. <b>2021</b> , 217, 123436	5
1032	Additive Manufacturing of Wood Flour/PHA Composites Using Micro-Screw Extrusion: Effect of Device and Process Parameters on Performance. <b>2021</b> , 13,	2
1031	Characterization of carbon fiber reinforced PLA composites manufactured by fused deposition modeling. <b>2021</b> , 4, 100112	21
1030	3D Printing of Lightweight Polyimide Honeycombs with the High Specific Strength and Temperature Resistance. <b>2021</b> , 13, 15690-15700	8
1029	3D-Printed Objects for Multipurpose Applications. <b>2021</b> , 30, 1-12	9
1028	Utilization of additive manufacturing in hybrid rocket technology: A review. <b>2021</b> , 180, 130-140	13
1027	Engineering 3D printed bioactive composite scaffolds based on the combination of aliphatic polyester and calcium phosphates for bone tissue regeneration. <b>2021</b> , 122, 111928	10
1026	Three-dimensional printing of high-mass loading electrodes for energy storage applications. <b>2021</b> , 3, 631-647	12
1025	3D Silk Fiber Construct Embedded Dual-Layer PEG Hydrogel for Articular Cartilage Repair - Assessment. <b>2021</b> , 9, 653509	4
1024	3D printing Kevlar fiber layer distributions and fiber orientations into nylon composites to achieve designable mechanical strength. <b>2021</b> , 39, 101882	1
1023	Fiber Formation of Printed Carbon Fiber/Poly (Ether Ether Ketone) with Different Nozzle Shapes. <b>2021</b> , 70, 1109	4
1022	A comparison of thermally conductive polyamide 6-boron nitride composites produced via additive layer manufacturing and compression molding. <b>2021</b> , 42, 2751	5
1021	Numerical investigation of multistability in the unstable flow of a polymer solution through porous media. <b>2021</b> , 6,	9
1020	Low-Cost, Modular Modification to a Desktop 3D Printer for General Purpose Gel/Paste Extrusion & Direct Ink Writing.	
1019	Microwave-assisted fracture toughness improvement in additively manufactured polylactic acid/copper composite. <b>2021</b> , 56, 11298-11308	1
1018	Tribological Behavior of Surface Textured Short Carbon Fiber-Reinforced Nylon Composites Fabricated by Three-Dimensional Printing Techniques. <b>2021</b> , 143,	2

1017	. <b>2021</b> , 57, 1-6	2
1016	Influence of the printing direction and age on the mechanical properties of 3D printed concrete. <b>2021</b> , 54, 1	4
1015	Development of Biomedical Implants through Additive Manufacturing: A Review. <b>2021</b> , 30, 4735-4744	11
1014	Current advances and future perspectives of additive manufacturing for functional polymeric materials and devices. <b>2021</b> , 1, 127-147	50
1013	Physical and biological engineering of polymer scaffolds to potentiate repair of spinal cord injury. <b>2021</b> , 201, 109484	9
1012	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. <b>2021</b> , 13,	121
1011	Self-Reinforced Nylon 6 Composite for Smart Vibration Damping. <b>2021</b> , 13,	4
1010	Characterization of thermally treated polypropylene powders with wide sintering window for powder bed fusion of polymers. <b>2021</b> , 96, 107078	1
1009	Effects of ingredients and pre-heating on the printing quality and dimensional stability in 3D printing of cookie dough. <b>2021</b> , 294, 110412	13
1008	3D printing of graphene-based polymeric nanocomposites for biomedical applications. <b>2021</b> , 2,	9
1007	Electromagnetic interference shielding performance of carbon nanostructure reinforced, 3D printed polymer composites. <b>2021</b> , 56, 11769-11788	5
1006	Experimental Characterization Framework for SLA Additive Manufacturing Materials. <b>2021</b> , 13,	11
1005	Cactus-inspired design principles for soft robotics based on 3D printed hydrogel-elastomer systems. <b>2021</b> , 202, 109515	10
1004	Mechanical properties for long fibre reinforced fused deposition manufactured composites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108657	10 12
1003	Flame retardant polymer materials: An update and the future for 3D printing developments. <b>2021</b> , 144, 100604	52
1002	Variable low-density polylactic acid and microsphere composite material for additive manufacturing. <b>2021</b> , 40, 101925	0
1001	A comparative study of the tensile properties of compression molded and 3D printed PLA specimens in dry and water saturated conditions. <b>2021</b> , 35, 1977-1985	3
1000	Thermotropic liquid crystalline polymer reinforced polyamide composite for fused filament fabrication. <b>2021</b> , 40, 101931	7

999	3D printability of highly ductile poly(ethylene glycol-co-cyclohexane-1,4-dimethanol terephthalate)-EMAA blends. <b>2021</b> , 61, 1695-1705		1
998	Sustainable Materials for Fused Deposition Modeling 3D Printing Applications. <b>2021</b> , 23, 2001472		15
997	Effect of Infill Ratio on the Tensile and Flexural Properties of Unreinforced and Carbon Fiber-Reinforced Polylactic Acid Manufactured by Fused Deposition Modeling. <b>2021</b> , 30, 5203-5215		1
996	Additive manufacturing of structural materials. <b>2021</b> , 100596		50
995	Miniaturized Cells. <b>2021</b> , 205-262		
994	Evaluation of the Technical Viability of Distributed Mechanical Recycling of PLA 3D Printing Wastes. <b>2021</b> , 13,		11
993	3D printing of continuous fiber-reinforced thermoset composites. <b>2021</b> , 40, 101921		11
992	Potential for Natural Fiber Reinforcement in PLA Polymer Filaments for Fused Deposition Modeling (FDM) Additive Manufacturing: A Review. <b>2021</b> , 13,		8
991	AlGa <sub>N</sub> /Ga <sub>N</sub> asymmetric graded-index separate confinement heterostructures designed for electron-beam pumped UV lasers. <b>2021</b> , 29, 13084-13093		2
990	Mechanical properties of natural screw pine fiber reinforced polyester nanocomposites. <b>2021</b> , 35, 1969-1975		2
989	Numerical modelling of the elastic properties of 3D-printed specimens of thermoplastic matrix reinforced with continuous fibres. <i>Composites Part B: Engineering</i> , <b>2021</b> , 211, 108671	10	8
988	High-Performance Polyamide/Carbon Fiber Composites for Fused Filament Fabrication: Mechanical and Functional Performances. <b>2021</b> , 30, 5066-5085		9
987	Investigation of the effect of FDM process parameters on mechanical properties of 3D printed PA12 samples using Taguchi method. 089270572110064		13
986	PolyChemPrint: A hardware and software framework for benchtop additive manufacturing of functional polymeric materials.		1
985	New Light in Polymer Science: Photoinduced Reversible Addition-Fragmentation Chain Transfer Polymerization (PET-RAFT) as Innovative Strategy for the Synthesis of Advanced Materials. <b>2021</b> , 13,		9
984	Syringe pump extruder and curing system for 3D printing of photopolymers.. <b>2021</b> , 9, e00175		3
983	Photocurable temperature activated humidity hybrid sensing materials for multifunctional coatings. <b>2021</b> , 221, 123635		1
982	Process-structure-property analysis of short carbon fiber reinforced polymer composite via fused filament fabrication. <b>2021</b> , 64, 544-556		10

981	Inverse 3D Printing with Variations of the Strand Width of the Resulting Scaffolds for Bone Replacement. <b>2021</b> , 14,	1
980	Integrated User-Oriented Service for 3D Printing Environments with Recycled Material from Maritime Plastic Waste. <b>2021</b> , 11, 3787	2
979	A review of vascular networks for self-healing applications. <b>2021</b> , 30, 063001	7
978	Mechanical Properties of Thermoplastic Polyurethane-Based Three-Dimensional-Printed Lattice Structures: Role of Build Orientation, Loading Direction, and Filler.	0
977	Transparent, Compliant 3D Mesostructures for Precise Evaluation of Mechanical Characteristics of Organoids. <b>2021</b> , 33, e2100026	8
976	Electrical Properties of Photopolymers for 3D Printing. <b>2021</b> ,	
975	Digital light processing 3D printing Kevlar composites based on dual curing resin. <b>2021</b> , 41, 101962	3
974	Non-Covalent Interactions on Polymer-Graphene Nanocomposites and Their Effects on the Electrical Conductivity. <b>2021</b> , 13,	3
973	Optimisation of Strength Properties of FDM Printed Parts-A Critical Review. <b>2021</b> , 13,	28
972	Optimization of FFF Process Parameters by Naked Mole-Rat Algorithms with Enhanced Exploration and Exploitation Capabilities. <b>2021</b> , 13,	20
971	On the Post-Processing of 3D-Printed ABS Parts. <b>2021</b> , 13,	5
970	Preparation and Performance Index Test of Continuous Glass Fiber Reinforced Filament- Polylactic Acid for 3D Printer. <b>2021</b> , 1906, 012053	0
969	Physico-Chemical Challenges in 3D Printing of Polymeric Nanocomposites and Hydrogels for Biomedical Applications. <b>2021</b> , 21, 2778-2792	3
968	Parametric Optimization of 3D Printed Hydrogel-Based Cardiovascular Stent. <b>2021</b> , 38, 885-900	4
967	Influence of Process Parameters on the Properties of Additively Manufactured Fiber-Reinforced Polymer Composite Materials: A Review. <b>2021</b> , 30, 4792-4807	16
966	Effect of post-rinsing time on the mechanical strength and cytotoxicity of a 3D printed orthodontic splint material. <b>2021</b> , 37, e314-e327	11
965	Mechanical performance of 3D printed interpenetrating phase composites with spinodal topologies. <b>2021</b> , 263, 113693	12
964	Effect of IR-laser treatment parameters on surface structure, roughness, wettability and bonding properties of fused deposition modeling-printed PEEK/CF. <b>2021</b> , 138, 51181	3

963	A Sensorized Soft Pneumatic Actuator Fabricated with Extrusion-Based Additive Manufacturing. <b>2021</b> , 10, 102	6
962	A novel biomimetic design inspired by nested cylindrical structures of spicules. <b>2021</b> , 864, 158197	1
961	Recent Advances in 3D Printing of Structured Materials for Adsorption and Catalysis Applications. <b>2021</b> , 121, 6246-6291	41
960	Recent Advancements in Biomimetic 3D Printing Materials With Enhanced Mechanical Properties. <b>2021</b> , 8,	2
959	Interlayer Adhesion Analysis of 3D-Printed Continuous Carbon Fibre-Reinforced Composites. <b>2021</b> , 13,	2
958	Shape memory polymer nanocomposite: a review on structure-property relationship. 1	4
957	A Comprehensive Overview on the Latest Progress in the Additive Manufacturing of Metal Matrix Composites: Potential, Challenges, and Feasible Solutions. <b>2021</b> , 34, 1173-1200	12
956	3D printing of lignin: Challenges, opportunities and roads onward. <b>2021</b> , 112, e23431	8
955	Porosity and pore design influence on fatigue behavior of 3D printed scaffolds for trabecular bone replacement. <b>2021</b> , 117, 104378	6
954	Effect of nozzle diameter on mechanical and geometric performance of 3D printed carbon fibre-reinforced composites manufactured by fused filament fabrication. <b>2021</b> , 27, 769-784	4
953	In vitro investigation of the influence of printing direction on the flexural strength, flexural modulus and fractographic analysis of 3D-printed temporary materials. <b>2021</b> , 40, 641-649	4
952	Effects of Rice Straw Powder (RSP) Size and Pretreatment on Properties of FDM 3D-Printed RSP/Poly(Lactic Acid) Biocomposites. <b>2021</b> , 26,	4
951	Comparative Assessment of Ionic Liquid-Based Soft Actuators Prepared by Film Casting Versus Direct Ink Writing. <b>2021</b> , 23, 2100411	2
950	Eklemeli Ėhalat Teknolojilerinin Tıbbi Ekipmanlarđ Đretiminde Kullanđđđđ	1
949	Optimization of Hybrid Ink Formulation and IPL Sintering Process for Ink-Jet 3D Printing. <b>2021</b> , 11,	0
948	Effect of printing parameters on the electromagnetic shielding efficiency of ABS/carbonaceous-filler composites manufactured via filament fused fabrication. <b>2021</b> , 65, 12-19	5
947	Rheology scaling of spherical metal powders dispersed in thermoplastics and its correlation to the extrudability of filaments for 3D printing. <b>2021</b> , 41, 101967	3
946	Artificial Neural Networks Framework for Detection of Defects in 3D-Printed Fiber Reinforcement Composites. <b>2021</b> , 73, 2075-2084	3

945	Comparative Performance Analysis of Polylactic Acid Parts Fabricated by 3D Printing and Injection Molding. <b>2021</b> , 30, 6522-6528	2
944	Selectively distributed graphene in 1,6-hexanediol diacrylate/epoxy composites via digital light processing 3D printing for enhanced thermal conductivity. <b>2021</b> , 276, 116763	5
943	State of the art in additive manufacturing and its possible chemical and particle hazards-review. <b>2021</b> , 31, 1733-1758	6
942	Cylindricity and flatness optimization for mechanical parts in additive manufacturing based on tolerance adaptive slicing. <b>2021</b> , 115, 3839-3857	2
941	3D printing in biomedical engineering: Processes, materials, and applications. <b>2021</b> , 8, 021322	9
940	Synthesis and applications of graphene oxide aerogels in bone tissue regeneration: a review. <b>2021</b> , 20, 100422	7
939	3D Printed Capacitive Pressure Sensing Sole for Anthropomorphic Robots. <b>2021</b> ,	0
938	3D Printing-Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. <b>2021</b> , 17, e2100817	16
937	3D Printing-Induced Fine Particle and Volatile Organic Compound Emission: An Emerging Health Risk. <b>2021</b> , 8, 616-625	6
936	A Brief Review on Additive Manufacturing of Polymeric Composites and Nanocomposites. <b>2021</b> , 12,	6
935	Material-specific properties and applications of additive manufacturing techniques: a comprehensive review. <b>2021</b> , 44, 1	7
934	High-Density Bio-PE and Pozzolan Based Composites: Formulation and Prototype Design for Control of Low Water Flow. <b>2021</b> , 13,	2
933	A Fundamental Investigation of Gas/Solid Heat and Mass Transfer in Structured Catalysts Based on Periodic Open Cellular Structures (POCS). <b>2021</b> , 60, 10522-10538	5
932	Organic dye-based photoinitiating systems for visible-light-induced photopolymerization. <b>2021</b> , 59, 1338-1389	12
931	Approaches of combining a 3D-printed elastic structure and a hydrogel to create models for plant-inspired actuators. <b>2021</b> , 6, 625-630	1
930	Challenges in additive manufacturing of high-strength aluminium alloys and current developments in hybrid additive manufacturing. <b>2021</b> , 4, 246-261	20
929	3D Printing of Micro- and Nanoscale Bone Substitutes: A Review on Technical and Translational Perspectives. <b>2021</b> , 16, 4289-4319	8
928	A Review on Active 3D Microstructures via Direct Laser Lithography. <b>2021</b> , 3, 2100051	7

927	SUMMARY OF KNOWLEDGE ABOUT 3D PRINTING AND ITS USE IN DENTISTRY. <b>2021</b> , 121, 55-64		
926	Integrating carbon fiber reclamation and additive manufacturing for recycling CFRP waste. <i>Composites Part B: Engineering</i> , <b>2021</b> , 215, 108808	10	10
925	Biofilms in the gravity sewer interfaces: making a friend from a foe. <b>2021</b> , 20, 795-813		0
924	3D-Printed Nanocellulose-Based Cushioning-Antibacterial Dual-Function Food Packaging Aerogel. <b>2021</b> , 26,		4
923	Adhesive bonding of a mixed short and continuous carbon-fiber-reinforced Nylon-6 composite made via fused filament fabrication. <b>2021</b> , 107, 102856		11
922	Porous network carbon nanotubes/chitosan 3D printed composites based on ball milling for electromagnetic shielding. <b>2021</b> , 145, 106363		13
921	3D printed aluminum matrix composites with well-defined ordered structures of shear-induced aligned carbon fibers. <b>2021</b> ,		1
920	Annealing and crystallization kinetics of poly(lactic acid) pieces obtained by additive manufacturing. <b>2021</b> , 61, 2097-2104		1
919	Statistical and Experimental Analysis of Process Parameters of 3D Nylon Printed Parts by Fused Deposition Modeling: Response Surface Modeling and Optimization. <b>2021</b> , 30, 5441-5454		11
918	Reinforcing in the lay-up direction with self-heating for carbon fiber composites fabricated using a fused filament fabrication 3D printer. <b>2021</b> , 266, 113815		6
917	Flexible electronics from intrinsically soft materials. <b>2021</b> , 6, 100051		10
916	Design and Development of Cellulosic Bionanocomposites from Forestry Waste Residues for 3D Printing Applications. <b>2021</b> , 14,		3
915	Flexural Strength and Surface Profiling of Carbon-Based PLA Parts by Additive Manufacturing. <b>2021</b> , 102, 921		4
914	3D Printed Electrochemical Sensors. <b>2021</b> , 14, 47-63		4
913	3D printed sample tubes for solid-state NMR experiments. <b>2021</b> , 327, 106957		1
912	Mechanical reinforcement of additive-manufactured constructs using in situ auxiliary heating process. <b>2021</b> , 43, 101995		1
911	A bibliometric indicators analysis of additive manufacturing research trends from 2010 to 2020. <b>2021</b> , ahead-of-print,		5
910	Fabrication and Application of Photocatalytic Composites and Water Treatment Facility Based on 3D Printing Technology. <b>2021</b> , 13,		2

909	A 3D Printer Guide for the Development and Application of Electrochemical Cells and Devices. <b>2021</b> , 9, 684256	10
908	Mechanical and microstructural evolution of 3D printed concrete with polyethylene fiber and recycled sand at elevated temperatures. <b>2021</b> , 293, 123524	11
907	Progress of 3D Printing Techniques for Nasal Cartilage Regeneration. <b>2021</b> , 1	4
906	Poly lactic acid (PLA) polymers: from properties to biomedical applications. 1-14	9
905	Characterization and evaluation of polycaprolactone/hydroxyapatite composite scaffolds with extra surface morphology by cryogenic printing for bone tissue engineering. <b>2021</b> , 205, 109712	6
904	Creation of adjacent monolithic and self-forming porous fragments in a polymerizing layer by optical scanning stereolithography. <b>2022</b> , 139, 51435	
903	Evolution of Additive Manufacturing in Civil Infrastructure Systems: A Ten-Year Review. <b>2021</b> , 6, 108	2
902	Progress and challenges towards additive manufacturing of SiC ceramic. <b>2021</b> , 10, 637-674	18
901	Effect of Thickness and Infill Density on Acoustic Performance of 3D Printed Panels made of Natural Fiber Reinforced Composites. 1-9	3
900	Effects of Cellulose Nanocrystal and Inorganic Nanofillers on the Morphological and Mechanical Properties of Digital Light Processing (DLP) 3D-Printed Photopolymer Composites. <b>2021</b> , 11, 6835	1
899	Design, Applications, and Challenges of 3D-Printed Custom Orthotics Aids: A Review. <b>2022</b> , 313-328	1
898	Polymer-/ceramic-based dielectric composites for energy storage and conversion.	7
897	Programmable Mechanically Active Hydrogel-Based Materials. <b>2021</b> , 33, e2006600	9
896	Current State and Challenges of Natural Fibre-Reinforced Polymer Composites as Feeder in FDM-Based 3D Printing. <b>2021</b> , 13,	8
895	Extrusion of AP Composite Propellant with Self-aligned Reactive Fibers. <b>2021</b> ,	
894	Polylactic acid/kenaf cellulose biocomposite filaments for melt extrusion based-3D printing. <b>2021</b> , 28, 8509-8525	1
893	The effect of time on mechanical properties of biocompatible photopolymer resins used for fabrication of clear dental aligners. <b>2021</b> , 119, 104494	4
892	Active acoustic absorption device using additive manufacturing technique for normal incident wave. <b>2021</b> , 178, 108006	2

891	4D Printing of Electroactive Materials. 2100019		5
890	Effects of Printing Parameters on the Fatigue Behaviour of 3D-Printed ABS under Dynamic Thermo-Mechanical Loads. <b>2021</b> , 13,		7
889	Quasi-static and dynamic crush behaviour of 3D printed thin-walled profiles reinforced with continuous carbon and glass fibres. <i>Composites Part B: Engineering</i> , <b>2021</b> , 217, 108865	10	5
888	Controlling drug release with additive manufacturing-based solutions. <b>2021</b> , 174, 369-386		13
887	BOYUTLU YAZICILARIN DENTAL KULLANIMINDA GÜCEL PROTETİK YAKLAŞIMLAR. 1-1		
886	Personalized Anti-Vibration Protection for Telematics Devices in Urban Freight Transport Vehicles. <b>2021</b> , 14, 4193		
885	In Situ Volumetric Imaging and Analysis of FRESH 3D Bioprinted Constructs Using Optical Coherence Tomography.		1
884	A Review of Conductive Carbon Materials for 3D Printing: Materials, Technologies, Properties, and Applications. <b>2021</b> , 14,		8
883	Multi-objective optimization of 3D Printing process using genetic algorithm for fabrication of copper reinforced ABS parts. <b>2021</b> , 48, 981-981		
882	A comparison of compression molded and additively manufactured short carbon fiber reinforced polyamide-6 samples and the effect of different infill printing patterns. <b>2021</b> , 42, 4728-4735		1
881	Morphological evaluation of microcellular foamed composites developed through gas batch foaming integrating Fused Deposition Modeling (FDM) 3D printing technique. 026248932110409		1
880	Effect of process parameters on thermal and mechanical properties of polymer-based composites using fused filament fabrication.		2
879	Extrusion-based 3D printing concrete with coarse aggregate: Printability and direction-dependent mechanical performance. <b>2021</b> , 296, 123624		16
878	Rheological investigation of nylon-carbon fiber composites fabricated using material extrusion-based additive manufacturing.		3
877	Engineering Natural Pollen Grains as Multifunctional 3D Printing Materials. 2106276		3
876	A SIMP-phase field topology optimization framework to maximize quasi-brittle fracture resistance of 2D and 3D composites. <b>2021</b> , 114, 102919		8
875	Advanced processing of 3D printed biocomposite materials using artificial intelligence. 1-21		4
874	Simulated and Experimental Investigation of Mechanical Properties for Improving Isotropic Fracture Strength of 3D-Printed Capsules. <b>2021</b> , 14,		2

873	Explorative study on the antibacterial effects of 3D-printed PMMA/nitrides composites. <b>2021</b> , 206, 109788	2
872	3D printing of carbon-based materials for supercapacitors. 1	1
871	Some Novel Preference Relations for Picture Fuzzy Sets and Selection of 3-D Printers in Aviation 4.0. <b>2022</b> , 281-300	1
870	Strength and Surface Properties of a 3D-Printed Denture Base Polymer. <b>2021</b> ,	11
869	Development of meniscus-inspired 3D-printed PCL scaffolds engineered with chitosan/extracellular matrix hydrogel.	3
868	Effects of copper fillers on mechanical and electrical properties of selective laser sintered PA 12-Cu composites. 1-13	1
867	Key factors influencing the implementation of three-dimensional printing in construction. <b>2021</b> , 174, 104-117	5
866	Additive Manufacturing of 3D Aerogels and Porous Scaffolds: A Review. 2103410	16
865	3D Printing of Fiber-Reinforced Plastic Composites Using Fused Deposition Modeling: A Status Review. <b>2021</b> , 14,	12
864	A Review of Recent Developments in Nanocellulose-Based Conductive Hydrogels. <b>2021</b> , 17, 620-633	
863	Effect of 3D-printing parameters on the tensile strength of acrylonitrile butadiene styrene (ABS) polymer. <b>2021</b> , 1173, 012041	0
862	Review of Fiber-Based Three-Dimensional Printing for Applications Ranging from Nanoscale Nanoparticle Alignment to Macroscale Patterning. <b>2021</b> , 4, 7538-7562	6
861	Natural fibre filament for Fused Deposition Modelling (FDM): a review. 1-21	11
860	The Influence of the Ceramic Nanoparticles on the Thermoplastic Polymers Matrix: Their Structural, Optical, and Conductive Properties. <b>2021</b> , 13,	1
859	Assessment of Manufacturing Parameters for New 3D-Printed Heating Circuits Based on CNT-Doped Nanocomposites Processed by UV-Assisted Direct Write. <b>2021</b> , 11, 7534	1
858	Heat-treatment effects on dimensional stability and mechanical properties of 3D printed continuous carbon fiber-reinforced composites. <b>2021</b> , 147, 106460	10
857	A review of fused deposition modelling for 3D printing of smart polymeric materials and composites. <b>2021</b> , 156, 110591	11
856	Additive manufacturing of polymeric composites from material processing to structural design. <i>Composites Part B: Engineering</i> , <b>2021</b> , 219, 108903	10 29

855	Flax shives-PBAT processing into 3D printed fluorescent materials with potential sensor functionalities. <b>2021</b> , 167, 113482	3
854	Study of photocurable energetic resin based propellants fabricated by 3D printing. <b>2021</b> , 207, 109891	5
853	Review: 3D printing hydrogels for the fabrication of soilless cultivation substrates. <b>2021</b> , 24, 101088	7
852	A femoral shape porous scaffold bio-nanocomposite fabricated using 3D printing and freeze-drying technique for orthopedic application. <b>2021</b> , 275, 125302	8
851	Delamination observation occurred during the flexural bending in additively manufactured PLA-short carbon fiber filament reinforced with continuous carbon fiber composite. <b>2021</b> , 11, 100246	11
850	Tensile and flexural response of 3D printed solid and porous CCFRPC structures and fracture interface study using image processing technique. <b>2021</b> , 14, 731-742	3
849	Theoretical analysis on the dynamic compressive behavior of cellular solids with non-linear variation in cross-sectional area. <b>2021</b> , 155, 103921	1
848	Batch production and fused filament fabrication of highly aligned discontinuous fibre thermoplastic filaments. <b>2021</b> , 102359	0
847	Toward the Direct Synthesis of HDPE Powders for Powder Bed Fusion Based Additive Manufacturing. 2100477	0
846	Property Analysis of Photo-Polymerization-Type 3D-Printed Structures Based on Multi-Composite Materials. <b>2021</b> , 11, 8545	3
845	mSLA-based 3D printing of acrylated epoxidized soybean oil - nano-hydroxyapatite composites for bone repair. <b>2021</b> , 130, 112456	3
844	Single-Step 3D Printing of Silver-Patterned Polymeric Devices for Bacteria Proliferation Control. 2100596	1
843	3D printed ocusert laden with ultra-fluidic glycerosomes of ganciclovir for the management of ocular cytomegalovirus retinitis. <b>2021</b> , 607, 121010	3
842	3D-printed solid-state electrolytes for electrochemical energy storage devices. 1	3
841	3D printing of radiation shielding polyethylene composites filled with Martian regolith simulant using fused filament fabrication. <b>2021</b> ,	3
840	3D printing technology; methods, biomedical applications, future opportunities and trends. <b>2021</b> , 14, 1430-1450	19
839	Spin-Printing of Liquid Crystal Polymer into Recyclable and Strong All-Fiber Materials. 2104574	2
838	Fabrication and characterization of polycarbonate-silica filaments for 3D printing applications. 002199832110447	47

837	Academic Insights and Perspectives in 3D Printing: A Bibliometric Review. <b>2021</b> , 11, 8298		1
836	A review on the processing morphology-property relationship in biodegradable polymer composites containing carbon nanotubes and nanofibers. <b>2021</b> , 61, 2719		2
835	Direct ink writing of aluminum-phosphate-bonded Al <sub>2</sub> O <sub>3</sub> ceramic with ultra-low dimensional shrinkage. <b>2021</b> ,		3
834	Application of TPMS structure in bone regeneration. <b>2021</b> , 2, 154-154		4
833	Hydrogel prepared by 3D printing technology and its applications in the medical field. <b>2021</b> , 44, 100498		5
832	3D printing with particles as feedstock materials. <b>2021</b> , 32, 3324-3345		4
831	3D/4D Printing of Polymers: Fused Deposition Modelling (FDM), Selective Laser Sintering (SLS), and Stereolithography (SLA). <b>2021</b> , 13,		33
830	Design Study for Multifunctional 3D Re-entrant Auxetics. 2100816		2
829	Additive manufacturing: a review on mechanical properties of polyjet and FDM printed parts. 1		4
828	How do the printing parameters of fused filament fabrication and structural voids influence the degradation of biodegradable devices?. <b>2021</b> , 136, 254-265		2
827	Characterization of 3D Printing on Jute Fabrics. <b>2021</b> , 13,		4
826	Interfacial enhancements between a three-dimensionally printed Honeycomb-Truss core and woven carbon fiber/polyamide-6 facesheets in sandwich-structured composites. <b>2021</b> , 149, 106534		2
825	Geometric modeling and recycling of 3D printed fiber reinforced thermoplastic composite plain weft knitted structures. <b>2021</b> , 149, 106528		2
824	The effect of cross-section geometry on crushing behaviour of 3D printed continuous carbon fibre reinforced polyamide profiles. <b>2021</b> , 274, 114337		4
823	3D printing for polymer/particle-based processing: A review. <i>Composites Part B: Engineering</i> , <b>2021</b> , 223, 109102	10	34
822	The Effect of Fibers Length Distribution and Concentration on Rheological and Mechanical Properties of Glass Fiber Reinforced Polypropylene Composite. 152808372110432		2
821	Review on recent advances in 4D printing of shape memory polymers. <b>2021</b> , 159, 110708		9
820	Compressive response of 3D printed graded foams. <b>2021</b> , 6, 100181		0

819	3D printing of carbon-based materials: A review. <b>2021</b> , 183, 449-485	10
818	Fabrication of 3D printed nanocomposites with electrospun nanofiber interleaves. <b>2021</b> , 46, 102030	3
817	3D printed composites with uniform distribution of Fe <sub>3</sub> O <sub>4</sub> nanoparticles and magnetic shape anisotropy. <b>2021</b> , 46, 102149	2
816	Layer interface effects on dielectric breakdown strength of 3D printed rubber insulator using stereolithography. <b>2021</b> , 46, 102069	4
815	Interfacial and mechanical properties of continuous ramie fiber reinforced biocomposites fabricated by in-situ impregnated 3D printing. <b>2021</b> , 170, 113760	11
814	Multi-scale analysis for 3D printed continuous fiber reinforced thermoplastic composites. <b>2021</b> , 216, 109065	3
813	Additive manufacturing of conductive and high-strength epoxy-nanoclay-carbon nanotube composites. <b>2021</b> , 46, 102098	0
812	The mechanical performance of the 3D printed composites produced with continuous carbon fiber reinforced filaments obtained via melt impregnation. <b>2021</b> , 46, 102112	3
811	3D Printable All-Polymer Epoxy Composites.	0
810	Fast, lean-and-agile, multi-parameter multi-trending robust quality screening in a 3D-printed product. <b>2021</b> , 3, 100051	
809	Vat photopolymerization of polymers and polymer composites: Processes and applications. <b>2021</b> , 47, 102279	7
808	Comprehending the role of process parameters and filament color on the structure and tribological performance of 3D printed PLA. <b>2021</b> , 15, 647-660	9
807	Stochastic modeling of geometrical uncertainties on complex domains, with application to additive manufacturing and brain interface geometries. <b>2021</b> , 385, 114014-114014	3
806	Multiphase direct ink writing (MDIW) for multilayered polymer/nanoparticle composites. <b>2021</b> , 47, 102322	4
805	Nanostructure and anisotropy of 3D printed lyotropic liquid crystals studied by scattering and birefringence imaging. <b>2021</b> , 47, 102289	1
804	Effect of carbon nanotube on thermal, tribological and mechanical properties of 3D printing polyphenylene sulfide. <b>2021</b> , 47, 102247	0
803	Failure mode analysis of stiffness-guided lattice structures under quasi-static and dynamic compressions. <b>2021</b> , 275, 114414	2
802	3D printing of PLA/n-HA composite scaffolds with customized mechanical properties and biological functions for bone tissue engineering. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109192	10 37

801	Improving thermomechanical properties of fused filament fabrication printed parts by using nanocomposites. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109227	10	0
800	Material extrusion additive manufacturing of continuous fibre reinforced polymer matrix composites: A review and outlook. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109143	10	15
799	Prediction of mechanical properties of graphite nanoflake/polydimethylsiloxane nanocomposites as affected by processing method. <i>Composites Part B: Engineering</i> , <b>2021</b> , 224, 109186	10	3
798	Flexible 3D printed silicones for gamma and neutron radiation shielding. <b>2021</b> , 188, 109616		3
797	Friction welding: An effective joining process for hybrid additive manufacturing. <b>2021</b> , 35, 460-473		0
796	Direct extrusion 3D printing for a softer PLA-based bio-polymer composite in pellet form. <b>2021</b> , 15, 936-949		4
795	A review on wood powders in 3D printing: processes, properties and potential applications. <b>2021</b> , 15, 241-255		8
794	Viscoelastic truss metamaterials as time-dependent generalized continua. <b>2021</b> , 156, 104569		0
793	Accurate and Computational: A review of color reproduction in Full-color 3D printing. <b>2021</b> , 209, 109943		5
792	Programming the microstructure of magnetic nanocomposites in DLP 3D printing. <b>2021</b> , 47, 102343		1
791	Fully 3D printing of carbon black-thermoplastic hybrid materials and fast activation for development of highly stable electrochemical sensors. <b>2021</b> , 349, 130721		5
790	Mechanical design and analytic solution for unfolding deformation of locomotive ferromagnetic robots. <b>2021</b> , 211, 106799		1
789	High resolution screen-printing of carbon black/carbon nanotube composite for stretchable and wearable strain sensor with controllable sensitivity. <b>2021</b> , 332, 113098		1
788	Reagentless and sub-minute laser-scribing treatment to produce enhanced disposable electrochemical sensors via additive manufacture. <b>2021</b> , 425, 130594		11
787	Discovering the technology evolution pathways for 3D printing (3DP) using bibliometric investigation and emerging applications of 3DP during COVID-19. <b>2021</b> , 3, 100042		3
786	A novel bio-inspired hydrogel-based lattice structure to mechanically mimic human annulus fibrosus: A finite element study. <b>2021</b> , 211, 106775		1
785	3D printing and nanotechnology. <b>2022</b> , 7-26		
784	Rational design and evaluation of UV curable nano-silver ink applied in highly conductive textile-based electrodes and flexible silver-zinc batteries. <b>2022</b> , 101, 294-307		1

783	3D-printed monolithic biofilters based on a polylactic acid (PLA) - hydroxyapatite (HAp) composite for heavy metal removal from an aqueous medium.. <b>2021</b> , 11, 32408-32418	8
782	Recent progress on fused filament fabrication research: sustainable materials and processing parameters. <b>2021</b> , 371-393	0
781	Aramid fiber reinforced composites. <b>2021</b> , 515-559	
780	3D printing of functional nerve guide conduits. <b>2021</b> , 9, tkab011	4
779	3D-Printed Orthosis: A Review on Design Process and Material Selection for Fused Deposition Modeling Process. <b>2021</b> , 531-538	
778	Progress in MgCl <sub>2</sub> supported Ziegler-Natta catalyzed polyolefin products and applications. <b>2021</b> , 28, 1	6
777	Exploring the possibilities of FDM filaments comprising natural fiber-reinforced biocomposites for additive manufacturing. <b>2021</b> , 8, 524-537	5
776	Direct Metal Laser Sintering of Precious Metals for Jewelry Applications: Process Parameter Selection and Microstructure Analysis. <b>2021</b> , 9, 126530-126540	5
775	Handcrafted digital light processing apparatus for additively manufacturing oral-prosthesis targeted nano-ceramic resin composites. <b>2021</b> , 28, 315-326	1
774	Additive manufacturing for functionalized nanomaterials breaks limits. <b>2021</b> , 1-34	1
773	Biocomposites of Polyhydroxyalkanoates and Lignocellulosic Components: A Focus on Biodegradation and 3D Printing. <b>2021</b> , 325-345	2
772	Transplantable scaffolds. <b>2021</b> , 199-222	
771	Free Material orientation design for tailoring vibration eigenvalues of CFRP shell structures. <b>2021</b> , 87, 20-00429-20-00429	3
770	MOSS-Multi-Modal Best Subset Modeling in Smart Manufacturing. <b>2021</b> , 21,	
769	Study on PLA and PA thermoplastic polymers reinforced with carbon additives by 3D printing process. <b>2021</b> , 46, 8871-8879	2
768	Recent advances in 3D printing of nanocellulose: structure, preparation, and application prospects. <b>2021</b> , 3, 1167-1208	15
767	Radical photoinitiation with LEDs and applications in the 3D printing of composites. <b>2021</b> , 50, 3824-3841	40
766	Application of Spectroscopy in Additive Manufacturing. <b>2021</b> , 14,	1

765	3D printed scaffolds for tissue engineering applications: Mechanical, morphological, thermal, in-vitro and in-vivo investigations. <b>2021</b> , 32, 205-216	7
764	Direct ink writing of recyclable and in situ repairable photothermal polyurethane for sustainable 3D printing development. <b>2021</b> , 9, 6981-6992	8
763	Porosity in multi-axis material extrusion of short-fibre composites. <b>2021</b> , 27, 362-370	2
762	In-Situ Monitoring of Additive Manufacturing. <b>2021</b> , 207-228	
761	Environmental and buckling performance analysis of 3D printed composite isogrid structures. <b>2021</b> , 98, 458-463	5
760	Fused Deposition Modelling of Fibre Reinforced Polymer Composites: A Parametric Review. <b>2021</b> , 5, 29	20
759	Tissue engineering applications. <b>2021</b> , 323-347	
758	3D Printing of CoreShell Capsule Composites for Post-Reactive and Damage Sensing Applications. <b>2020</b> , 5, 2000509	8
757	Polymer-Based Additive Manufacturing: Historical Developments, Process Types and Material Considerations. <b>2019</b> , 1-22	3
756	Additive Manufacturing for Tissue Engineering. <b>2018</b> , 1-52	1
755	Topology Optimization of Orthotropic Elastic Design Domains with Mortar Contact Conditions. <b>2018</b> , 1427-1438	4
754	Optimisation of Fibre-Paths in Composites Produced by Additive Manufacturing. <b>2019</b> , 1083-1094	1
753	Role of Imaging Data in Additive Manufacturing for Biomedical Applications. <b>2020</b> , 69-94	1
752	FDM 3D Printing in Biomedical and Microfluidic Applications. <b>2020</b> , 127-145	0
751	Current understanding and challenges in high temperature additive manufacturing of engineering thermoplastic polymers. <b>2020</b> , 34, 101218	33
750	Polymer composites with enhanced thermal conductivity via oriented boron nitride and alumina hybrid fillers assisted by 3-D printing. <b>2020</b> , 46, 20810-20818	34
749	Overview of 3D additive manufacturing (AM) and corresponding AM composites. <b>2020</b> , 139, 106114	27
748	A semi-analytical model for sound propagation in sintered fiber metals. <i>Composites Part B: Engineering</i> , <b>2017</b> , 126, 17-26	10 13

747	An approach to analyse the factors behind the micromechanical response of 3D-printed composites. <i>Composites Part B: Engineering</i> , <b>2020</b> , 186, 107820	10	29
746	Rheological parameters, thixotropy and creep of 3D-printed calcium sulfoaluminate cement composites modified by bentonite. <i>Composites Part B: Engineering</i> , <b>2020</b> , 186, 107821	10	37
745	Mechanical behavior of additively manufactured nanoclay/HDPE nanocomposites. <b>2020</b> , 247, 112442		18
744	4D printing of shape memory polymers. <b>2020</b> , 134, 109771		43
743	Property-map of epoxy-treated and as-printed polymeric additively manufactured materials. <b>2020</b> , 181, 105767		7
742	3D printed continuous carbon fiber reinforced PLA composites: A short review. <b>2020</b> , 25, 394-399		20
741	Mechanically Robust and Reprocessable Acrylate Vitrimers with Hydrogen-Bond-Integrated Networks for Photo-3D Printing. <b>2021</b> , 13, 1581-1591		9
740	Nearly Perfect 3D Structures Obtained by Assembly of Printed Parts of Polyamide Ionene Self-Healing Elastomer. <b>2020</b> , 2, 4352-4359		3
739	Infinite Approaching Superlubricity by Three-Dimensional Printed Structures. <b>2021</b> , 15, 240-257		17
738	Enhanced single-cell encapsulation in microfluidic devices: From droplet generation to single-cell analysis. <b>2020</b> , 14, 061508		7
737	Tensile properties of 3D printed continuous fiberglass reinforced cellular composites. 1-10		3
736	Creating 3D printed sensor systems with conductive composites. <b>2021</b> , 30, 015020		8
735	The 3D printing of dielectric elastomer films assisted by electrostatic force. <b>2021</b> , 30, 025001		3
734	Silk fibroin reactive inks for 3D printing crypt-like structures. <b>2020</b> , 15, 055037		2
733	Mechanical characterization of FDM filaments with PVDF matrix reinforced with Graphene and Barium Titanate. 999, 012010		2
732	Microscopic morphology, thermodynamic and mechanical properties of thermoplastic polyurethane fabricated by selective laser sintering. <b>2020</b> , 7, 055301		6
731	Multifunctional magnetic soft composites: a review. <b>2020</b> , 3, 042003		51
730	Additive manufacturing of polymer-based structures by extrusion technologies. <b>2020</b> , 1,		9

729	3-D Printing Structural Electronics With Conductive Filaments. <b>2020</b> , 10, 1965-1972	2
728	Effect of Three-Dimensional Printing With Nanotubes on Impact and Fatigue Resistance. <b>2020</b> , 142,	4
727	Predicting Flexural Strength of Additively Manufactured Continuous Carbon Fiber-Reinforced Polymer Composites Using Machine Learning. <b>2020</b> , 20,	8
726	3D Printing of Flexible and Stretchable Parts Using Multiwall Carbon Nanotube/Polyester-Based Thermoplastic Polyurethane. <b>2021</b> , 143,	2
725	Evaluating the effect of variable fiber content on mechanical properties of additively manufactured continuous carbon fiber composites. <b>2021</b> , 40, 365-377	10
724	Fiber Traction Printing: A 3D Printing Method of Continuous Fiber Reinforced Metal Matrix Composite. <b>2020</b> , 33,	1
723	Additive manufacturing of PLA-based scaffolds intended for bone regeneration and strategies to improve their biological properties. <b>2020</b> , 20, 571-599	22
722	Cellulose hydrogel skeleton by extrusion 3D printing of solution. <b>2020</b> , 9, 345-353	18
721	Progress in construction of bio-inspired physico-antimicrobial surfaces. <b>2020</b> , 9, 1562-1575	8
720	Role of Polymers in 3D Printing Technology for Drug Delivery - An Overview. <b>2018</b> , 24, 4979-4990	13
719	Additive Manufacturing in the Geopolymer Construction Technology: A Review. <b>2020</b> , 14, 150-161	2
718	Investigation of fused deposition modeling processing parameters of 3D PLA specimens by an experimental design methodology. <b>2019</b> , 61, 405-410	10
717	On the Compressive Response of Polymeric Cellular Materials. <b>2020</b> , 13,	2
716	Enhancement of 3D-Printable Materials by Dual-Curing Procedures. <b>2020</b> , 14,	6
715	Study of Microchannels Fabricated Using Desktop Fused Deposition Modeling Systems. <b>2020</b> , 12,	7
714	Assessing the Influence of the Sourcing Voltage on Polyaniline Composites for Stress Sensing Applications. <b>2020</b> , 12,	4
713	Continuous Based Direct Ink Write for Tubular Cardiovascular Medical Devices. <b>2020</b> , 13,	2
712	A Review of Printable Flexible and Stretchable Tactile Sensors. <b>2019</b> , 2019, 3018568	61

711	Additive Manufacturing Process and Their Applications for Green Technology. <b>2019</b> , 262-281	1
710	Green Material for Fused Filament Fabrication. <b>2020</b> , 1-27	1
709	Role of Additive Manufacturing in Industry 4.0 for Maintenance Engineering. <b>2020</b> , 235-254	3
708	Optimization and Simulation of Additive Manufacturing Processes. <b>2020</b> , 187-209	4
707	Controlling mechanical properties of 3D printed polymer composites through photoinduced reversible addition-fragmentation chain transfer (RAFT) polymerization.	10
706	Experimentation of multi directional fan blade model using fused deposition modeling process. <b>2021</b> ,	
705	3D-Printed Anisotropic Polymer Materials for Functional Applications. <b>2021</b> , e2102877	19
704	The Field Guide to 3D Printing in Optical Microscopy for Life Sciences. <b>2021</b> , e2100994	3
703	Spatially Controlled 3D Printing of Dual-Curing Urethane Elastomers. 2100700	1
702	Photopolymerization of Zeolite Filler-Based Composites for Potential 3D Printing Application and Gas Adsorption Applications. 2100869	2
701	Composite Polyurethane-Polylactide (PUR/PLA) Flexible Filaments for 3D Fused Filament Fabrication (FFF) of Antibacterial Wound Dressings for Skin Regeneration. <b>2021</b> , 14,	1
700	Mechanical Properties and a Constitutive Model of 3D-Printed Copper Powder-Filled PLA Material. <b>2021</b> , 13,	1
699	Modified moving particle semi-implicit method for 3D print process simulations of short carbon fiber/polyamide-6 composites. <b>2021</b> , 6, 100195	0
698	3D-Printed Thermoset Biocomposites Based on Forest Residues by Delayed Extrusion of Cold Masterbatch (DECMA). <b>2021</b> , 9, 13979-13987	2
697	Anisotropic Printed Resistor with Linear Sensitivity Based on Nano-Microfiller-Filled Polymer Composite. <b>2021</b> , 7, 2100581	1
696	Antibacterial 3D-printed PMMA/ceramic composites.	
695	Compression Performance with Different Build Orientation of Fused Filament Fabrication Polylactic Acid, Acrylonitrile Butadiene Styrene, and Polyether Ether Ketone. <b>2022</b> , 31, 1925	3
694	Additive manufacturing: recent trends, applications and future outlooks. 1	3

693	Hydroxyapatite composite scaffold for bone regeneration via rapid prototyping technique: a review. <b>2021</b> , ahead-of-print,	1
692	Fused deposition modelling: Current status, methodology, applications and future prospects. <b>2021</b> , 47, 102378	18
691	Strain rate dependent mechanical properties of 3D printed polymer materials using the DLP technique. <b>2021</b> , 47, 102368	2
690	Effects of auxiliary heat on the interlayer bonds and mechanical performance of polylactide manufactured through fused deposition modeling. <b>2021</b> , 104, 107390	3
689	The shape morphing performance of magnetoactive soft materials. <b>2021</b> , 211, 110172	20
688	Object-Space Optimization of Tomographic Reconstructions for Additive Manufacturing.. <b>2021</b> , 48, 102367-102367	
687	Manufacturing a soft actuator/sensor integrated structure via multi-material direct writing processes technology. <b>2021</b> , 104, 107382	
686	Additive Manufacturing. <b>2017</b> , 29, 254-259	
685	Manufacturing Process Selection. <b>2018</b> , 45-58	
684	Developments in additive manufacturing of arranged scintillating particle composites for neutron detection. <b>2018</b> ,	1
683	La manufactura aditiva y los materiales compuestos en el diseo de prtesis transtibiales de uso deportivo. <b>2018</b> , 1, 27-43	0
682	Electrically conductive acrylonitrile butadiene styrene(ABS)/copper composite filament for fused deposition modeling. <b>2018</b> ,	2
681	Investigation of Temperature-Dependent Microscopic Morphological Variation of PEEK Powder for a 3D Printer using Dissipative Particle and Molecular Dynamics Simulations. <b>2018</b> , 17, 117-122	0
680	A Review: Productivity Enhancements of Micro/Nano Patterning Methods. <b>2018</b> , 35, 1019-1026	1
679	Composites Based on Shape Memory Materials. <b>2019</b> , 1-35	
678	Graphene-Based Advanced Materials: Properties and Their Key Applications. <b>2019</b> , 31-51	
677	Mechanics Modeling of Additive Manufactured Polymers. <b>2019</b> , 51-71	0
676	Specifics of 3D-Printed Electronics. <b>2019</b> , 315-326	1

- 675 Applications of 3D printing in small animal magnetic resonance imaging. **2019**, 6, 021605 1
- 674 Application of 3D Printing Technology in Seismic Physical Modeling. **2019**, 56, 260-269 1
- 673 Bending Fracture Rule for 3D-printed Curved Continuous-fiber Composite. **2019**, 45, 164-170
- 672 3B Başlıabilir Fibe Silika Takviyeli Foto-Duyarlı Polimerlerin Mekanik Özelliklerinin İncelenmesi. **2019**, 7, 1793-1805 1
- 671 Global trends in carbon fiber research. **2019**, 147-163
- 670 Mechanical Characterization of 3D Printable Nanoclay Reinforced Polymer Structures by Stereolithography. 1584-1593
- 669 Red emission carbon dots for microLED application. **2019**,
- 668 Simulation of Extrusion of Thermoplastic Binder in Additive Manufacturing Process. **2020**, 319-328
- 667 3D Printed Microheater Sensor-Integrated, Drug-Encapsulated Microneedle Patch System for Pain Management.
- 666 El futuro de la fabricación aditiva, a través del análisis de patentes. **2020**, 2, 144-152
- 665 State-of-the-Art Review and Roadmap. **2020**, 1-56 1
- 664 Determinación de propiedades elásticas de piezas poliméricas construidas por impresión 3D, sometidas a flexión. **2020**, 25, 0
- 663 Plastics in 3D Printing. **2020**,
- 662 A 3D Printed Robotic Finger with Embedded Tactile Pressure and Strain Sensor. **2020**, 2
- 661 Intrinsic Field-Induced Nanoparticle Assembly in Three-Dimensional (3D) Printing Polymeric Composites. **2021**, 3
- 660 Additive Manufacturing of Shape Memory Polymer Composites for Futuristic Technology. 5
- 659 The recent development of vat photopolymerization: a review. **2021**, 48, 102423 8
- 658 The Challenge of 3D Bioprinting of Composite Natural Polymers PLA/Bioglass: Trends and Benefits in Cleft Palate Surgery. **2021**, 9, 2

- 657 Recent advancement in 3-D printing: nanocomposites with added functionality. 1 3
- 656 3D printed continuous glass fibre-reinforced polyamide composites: Fabrication and mechanical characterisation. 073168442110517 2
- 655 Smart and Biomimetic 3D and 4D Printed Composite Hydrogels: Opportunities for Different Biomedical Applications. **2021**, 9, 10
- 654 Biodegradable PGA/PBAT Blends for 3D Printing: Material Performance and Periodic Minimal Surface Structures. **2021**, 13, 1
- 653 In-Process Monitoring of Temperature Evolution during Fused Filament Fabrication: A Journey from Numerical to Experimental Approaches. **2021**, 1, 332-360 15
- 652 Design and Development of a Mobile Robot Equipped with Perception Systems for Autonomous Navigation. **2020**, 78-85
- 651 Hierarchical ordering in light-triggered additive manufacturing. **2020**, 11, 7316-7329 0
- 650 Bifurcation of a finitely deformed functionally graded dielectric elastomeric tube. **2020**, 127, 103593
- 649 Study on Fracture of Fiber-Reinforced Polymeric Composites Using Spiral Notch Torsion Test. **2021**, 151-165 0
- 648 Micromechanical analysis of the tensile deformation behavior for 3D printed unidirectional continuous fiber reinforced thermos-plastic composites. **2020**, 34, 5085-5092 1
- 647 Estimation of Tensile and Compression Properties of 2D Woven Jute and Kevlar Hybrid Laminate. 988, 012103
- 646 Photo-curing 3D printing of micro-scale bamboo fibers reinforced palm oil-based thermosets composites. **2022**, 152, 106676 5
- 645 3D-printable biopolymer-based materials for water treatment: A review. **2022**, 430, 132964 6
- 644 3D Printing: Challenges and Its Prospect in Futuristic Tissue Engineering Applications. **2020**, 1-22
- 643 Portland 3D Printing of Portland Cement Pastes with Additions of Kaolin, Superplasticant, and Calcium Carbonate. **2020**, 217-226
- 642 Post Treatment for Super Finishing of 3D Printed Thermoplastics. **2020**,
- 641 A photo-reversible crosslinking resin for additive manufacturing: reversibility and performance. **2020**, 10, 44323-44331 1
- 640 Thermo-mechanics of Polymers at Extreme and Failure Conditions: Influence of Strain Rate and Temperature. **2020**, 1-28

639	Applications of Thermosetting Polymers in 3D Printing. <b>2020</b> ,	
638	Flatwise Compression and Buckling Characterizations of Adhesive-Free Additively Manufactured Defected Architected Structures. <b>2020</b> , 279-289	
637	Experimental Evaluation of Additively Manufactured Continuous Fiber Reinforced Nylon Composites. <b>2020</b> , 321-328	0
636	Novel Additive Manufacturing Processes and Techniques in Industry 4.0. <b>2020</b> , 439-455	0
635	Processing Methods. <b>2020</b> , 99-141	
634	Elastic turbulence generates anomalous flow resistance in porous media. <b>2021</b> , 7, eabj2619	10
633	An Overview of Natural Polymers as Reinforcing Agents for 3D Printing. <b>2021</b> , 5, 78	4
632	In Situ Surfactant Effects on Polymer/Reduced Graphene Oxide Nanocomposite Films: Implications for Coating and Biomedical Applications.	4
631	Research on Heating Zone Length of Continuous Fiber Reinforced Composites 3D Printing Nozzle. <b>2021</b> , 6, 11293-11298	0
630	Research on drop-weight impact of continuous carbon fiber reinforced 3D printed honeycomb structure. <b>2021</b> , 29, 102869	1
629	Effect of copper or carbon fiber addition to the 3D printing of polylactid samples. <b>2020</b> , 62, 727-732	3
628	Application of Topology Optimisation to Steel Node-Connections and Additive Manufacturing. <b>2021</b> , 374-390	
627	A quantitative structural characterisation of active semiconducting materials (mSi; SiO; AlO; TiO) for use in printed electronics using a combination of Small Angle Light Scattering (SALS) and Ultra Small Angle X-ray Scattering (USAXS). <b>2020</b> , 31, 465703	
626	Fused Filament Fabrication of Ceramic Components for Home Use. <b>2021</b> , 121-139	1
625	Sub-THz absorption properties of black carbon containing composites for application in additive technology. <b>2020</b> ,	
624	Appearance-preserving tactile optimization. <b>2020</b> , 39, 1-16	0
623	Materials for Additive Manufacturing. <b>2021</b> , 379-428	8
622	Quasi-static Compressive Properties and Behavior of Single-cell Miura Origami Column Fabricated by 3D Printed PLA Material. <b>2020</b> , 3, 66-73	0

621	ADDITIVE MANUFACTURING (3D PRINTING) METHODS AND APPLICATIONS IN DENTISTRY.	
620	Application of Machine Learning Techniques in Additive Manufacturing: A Review. <b>2022</b> , 1-24	
619	Assessment of materials, design parameters and some properties of 3D printing concrete mixtures; a state-of-the-art review. <b>2022</b> , 316, 125865	9
618	3D printing of soft thermoplastic elastomers: Effect of the deposit angle on mechanical and thermo-mechanical properties. <b>2022</b> , 165, 104155	0
617	Bioinspired marine antifouling coatings: Status, prospects, and future. <b>2022</b> , 124, 100889	28
616	Extended finite element simulation on Tensile, fracture toughness and fatigue crack growth behaviour of additively manufactured Ti6Al4V alloy. <b>2022</b> , 117, 103163	2
615	Comparison of Measured and Predicted Permittivity Values for 3D Printed PLA Substrates. <b>2021</b> ,	
614	Control of Radical Polymerization and Cationic Polymerization in Photocurable Resin for 3D Printers. <b>2021</b> , 34, 231-236	
613	Poly lactide-Based Porous Materials: Synthesis, Hydrolytic Degradation Features, and Application Areas. <b>2021</b> , 63, 199-218	1
612	Penetration impact behaviour of innovative 3d printing onyx/glass composite samples. <b>2021</b> ,	
611	Mechanical behavior of AlBi10Mg gyroid surface with variable topological parameters fabricated via laser powder bed fusion. <b>2021</b> , 15, 5650-5661	3
610	Additively manufactured electrodes for supercapacitors: A review. <b>2021</b> , 26, 101220	2
609	Experimental Quantification of the Variability of Mechanical Properties in 3D Printed Continuous Fiber Composites. <b>2021</b> , 11, 11315	0
608	Progress in additive manufacturing of MoS <sub>2</sub> -based structures for energy storage applications [A review]. <b>2021</b> , 106331	3
607	Improving the shielding efficiency and weight reducing of the radio-absorbing coating by adding a matching layer. <b>2021</b> , 1198, 012004	
606	Laser additive manufacturing of metallic glasses: issues in vitrification and mechanical properties.	0
605	Biodegradable 3D Printed Scaffolds of Modified Poly (Trimethylene Carbonate) Composite Materials with Poly (L-Lactic Acid) and Hydroxyapatite for Bone Regeneration.. <b>2021</b> , 11,	2
604	The Effect of Collagen-I Coatings of 3D Printed PCL Scaffolds for Bone Replacement on Three Different Cell Types. <b>2021</b> , 11, 11063	1

603	Scattering Model for Composite Stereolithography to Enable Resin Biller Selection and Cure Depth Control.	4
602	Thermoplastic Extrusion Additive Manufacturing of High-Performance Carbon Fiber PEEK Lattices. <b>2021</b> , 11, 1453	2
601	Hybrid Composite Material Reinforced with Carbon Nanolaminates for Gradient Stiffness: Preparation and Characterization. <b>2021</b> , 13,	
600	Selective laser sintering of carbon nanotube-coated thermoplastic polyurethane: mechanical, electrical, and piezoresistive properties. <b>2021</b> , 100212	1
599	On the development of a green composites based on poly (lactic acid)/poly (butylene succinate) blend matrix reinforced by long flax fibers. <b>2021</b> ,	0
598	A short review on fused deposition modeling 3D printing of bio-based polymer nanocomposites. <b>2022</b> , 139, 51904	2
597	Characterization of continuous carbon fibre reinforced 3D printed polymer composites with varying fibre volume fractions. <b>2021</b> , 115033	7
596	Sandwich Multi-Material 3D-Printed Polymers: Influence of Aging on the Impact and Flexure Resistances. <b>2021</b> , 13,	2
595	On flexural properties of additive manufactured composites: Experimental, and numerical study. <b>2021</b> , 218, 109182	4
594	Effect of Stabilizers and Thermoplastic Polyurethane on the Properties of Three-Dimensional Printed Photochromic Wood Flour/Poly(lactic Acid) Composites.	
593	Polymer nanofibers for biomedical applications: advances by electrospinning. <b>2021</b> , 04,	1
592	Adhesive bonding of 3D-printed short- and continuous-carbon-fiber composites: An experimental analysis of design methods to improve joint strength. <i>Composites Part B: Engineering</i> , <b>2021</b> , 230, 109539 <sup>10</sup>	1
591	Outstanding Strengthening and Toughening Behavior of 3D-Printed Fiber-Reinforced Composites Designed by Biomimetic Interfacial Heterogeneity. <b>2021</b> , e2103561	1
590	Extrusion-based 3D printing with high-density polyethylene Birch-fiber composites. <b>2022</b> , 139, 51937	3
589	Comprehensive investigation and prediction model for mechanical properties of coconut wood-poly(lactic acid) composites filaments for FDM 3D printing. 1	0
588	Single droplet 3D printing of electrically conductive resin using high aspect ratio silver nanowires. <b>2021</b> , 48, 102473	
587	Fabrication of biopolymer nanofibers from natural sources. 004051752110550	
586	Phase distribution and properties identification of heterogeneous materials: A data-driven approach. <b>2021</b> , 390, 114354	1

585	Experimental Investigation on the Effect of Carbon Fiber Reinforcements in the Mechanical Resistance of 3D Printed Specimens. 1	0
584	Fatigue behaviour of 3D printed virgin and recycled short-glass-fiber-reinforced and mineral-filled polypropylene. <b>2021</b> , 34, 199-204	1
583	Additive manufacturing technology of polymeric materials for customized products: recent developments and future prospective.. <b>2021</b> , 11, 36398-36438	6
582	Chapter 11:3D Printed Functional Membranes for Water Purification. <b>2021</b> , 256-278	
581	Thickness effect on the mechanical behavior of PLA specimens fabricated via Fused Deposition Modeling. <b>2021</b> , 33, 571-577	0
580	Additive manufacturing of continuous carbon fiber tubes and experimental investigation of the energy absorption capability under quasi-static loading. <b>2021</b> , 34, 105-110	
579	Analysis of the effect of geometry frame on the strength and weight of balance bike made by 3D printing. <b>2021</b> ,	
578	Mechanical Behavior of 3D Printed Polymeric Materials: Impact of Process Parameters. <b>2022</b> , 673-681	
577	Additive Manufacturing in Off-Site Construction: Review and Future Directions. <b>2022</b> , 12, 53	4
576	Overview of 3D-Printed Silica Glass.. <b>2022</b> , 13,	2
575	Fatigue analysis of piezo composite disc for energy harvesting. <b>2022</b> ,	
574	3D Dip-Pen Nanolithography. 2101493	2
573	Characterization and prediction of the nonlinear creep behavior of 3D-printed polyurethane acrylate. <b>2022</b> , 50, 102583	
572	Impact behaviour and non destructive evaluation of 3D printed reinforced composites. <b>2022</b> , 281, 115112	3
571	Additive manufacturing of short carbon fiber-reinforced polyamide composites by fused filament fabrication: Formulation, manufacturing and characterization. <b>2022</b> , 214, 110358	6
570	Investigation of influence of printing parameters on the quality of 3D printed composite structures. <b>2022</b> , 281, 115061	2
569	Sustainable biobased composites for advanced applications: recent trends and future opportunities <b>IA</b> critical review. <b>2022</b> , 7, 100220	13
568	Polymer/metal composite 3D porous bone tissue engineering scaffolds fabricated by additive manufacturing techniques: A review. <b>2022</b> , 25, e00191	9

567	Lightweight hybrid materials and structures for energy absorption: A state-of-the-art review and outlook. <b>2022</b> , 172, 108760	9
566	Hybrid additive manufacturing of polymer composites reinforced with buckypapers and short carbon fibres. <b>2022</b> , 154, 106794	2
565	Dynamic Molding: Additive manufacturing in partially ordered system. <b>2022</b> , 51, 102598	0
564	Recent advances in 3D printing for catalytic applications. <b>2022</b> , 433, 134341	6
563	3D printing technology for textiles and fashion. <b>2020</b> , 52, 167-260	0
562	Start-up Stage for an Electric Field Assisted Fused Deposition. <b>2020</b> ,	
561	Buckling Behavior of Isogrid Composite Structures Obtained by Fused Deposition Modeling Technique. <b>2020</b> ,	
560	The Effect of Printing Parameters on Crack Growth Rate of FDM ABS Cantilever Beam under Thermo-mechanical Loads. <b>2021</b> , 34, 59-64	0
559	Closing the material loop in additive manufacturing: A literature review on waste recycling. <b>2021</b> , 1196, 012008	
558	Additive Manufacturing of $\beta$ Amino Acid Based Poly(ester amide)s for Biomedical Applications.. <b>2022</b> ,	1
557	Comprehensive Study on Materials used in Different Types of Additive Manufacturing and their Applications. <b>2022</b> , 7, 92-114	0
556	CAD-CAM Fabricated Denture Base Resins: In Vitro Investigation of the Minimum Acceptable Denture Base Thickness.. <b>2022</b> ,	0
555	Characteristics of the Waste Wood Biomass and Its Effect on the Properties of Wood Sanding Dust/Recycled PP Composite.. <b>2022</b> , 14,	1
554	Following the light: 3D-printed COF@poly(2-hydroxyethyl methacrylate) dual emissive composite with response to polarity and acidity.	2
553	Environment control in additive manufacturing of high-performance thermoplastics. <b>2022</b> , 119, 6423	3
552	Unraveling of Advances in 3D-Printed Polymer-Based Bone Scaffolds.. <b>2022</b> , 14,	4
551	Improving thermal conductivities of textile materials by nanohybrid approaches.. <b>2022</b> , 25, 103825	2
550	Experimental Characterization and Analysis of the In-Plane Elastic Properties and Interlaminar Fracture Toughness of a 3D-Printed Continuous Carbon Fiber-Reinforced Composite.. <b>2022</b> , 14,	1

549	Concurrent Material Selection of Natural Fibre Filament for Fused Deposition Modeling Using Integration of Analytic Hierarchy Process/Analytic Network Process. <b>2022</b> , 10, 1221-1238	1
548	A Review of Polymer-Based Materials for Fused Filament Fabrication (FFF): Focus on Sustainability and Recycled Materials.. <b>2022</b> , 14,	19
547	Three-Dimensional Printing, Wearables, Medical Textiles, Adhesives, and Coatings. <b>2022</b> , 381-421	
546	Comprehensive review on various additive manufacturing techniques and its implementation in electronic devices. <b>2022</b> , 62, 477-502	2
545	3D printed bio polymeric materials as a new perspective for wound dressing and skin tissue engineering applications: a review. <b>2022</b> , 29, 1	2
544	Determination of Fiber Content in 3D Printed Composite Parts Using Image Analysis. <b>2022</b> , 1-1	1
543	Fully 3D printed rolled capacitor based on conductive ABS composite electrodes. <b>2022</b> , 134, 107178	0
542	Conventional and Recent Trends of Scaffolds Fabrication: A Superior Mode for Tissue Engineering.. <b>2022</b> , 14,	5
541	Effective thermal conductivity of 3D-printed continuous wire polymer composites. 1	0
540	Elastic Modulus and Flatwise (Through-Thickness) Tensile Strength of Continuous Carbon Fibre Reinforced 3D Printed Polymer Composites.. <b>2022</b> , 15,	1
539	Application of Polymer Matrix Composites in Large Power Transformer Tanks. <b>2022</b> , 1-1	1
538	A comprehensive review on polymer matrix composites: material selection, fabrication, and application. 1	7
537	Grain refinement and property improvements of AlZnMgCu alloy by heterogeneous particle addition during wire and arc additive manufacturing. <b>2022</b> , 16, 824-839	3
536	Digital light processing 3D printing of multi-materials with improved adhesion using resins containing low functional acrylates. <b>2022</b> , 39, 451-459	0
535	3D printing of polymer composites: Materials, processes, and applications. <b>2022</b> , 5, 43-76	15
534	Supramolecular Reinforcement of Polymer-Nanoparticle Hydrogels for Modular Materials Design.. <b>2021</b> , e2106941	4
533	Numerical and Experimental Investigation of Pressure Drop in Periodic Open Cellular Structures for Intensification of Catalytic Processes.	0
532	Additive manufacturing with fibre-reinforcement Design guidelines and investigation into the influence of infill patterns. <b>2022</b> , ahead-of-print,	1

531	Comprehensive investigation of reclaimed carbon fibre reinforced polyamide (rCF/PA) filaments and FDM printed composites. <i>Composites Part B: Engineering</i> , <b>2022</b> , 233, 109646	10	1
530	Compressive mechanical properties and energy absorption characteristics of SLM fabricated Ti6Al4V triply periodic minimal surface cellular structures. <b>2022</b> , 166, 104241		3
529	Enhancement of wastewater treatment performance using 3D printed structures: A major focus on material composition, performance, challenges, and sustainable assessment.. <b>2022</b> , 306, 114461		4
528	In vitro blood brain barrier models: An overview.. <b>2022</b> , 343, 13-30		5
527	Role of annealing and isostatic compaction on mechanical properties of 3D printed short glass fiber nylon composites. <b>2022</b> , 51, 102599		1
526	Improvement in the mechanical performance of Multi Jet Fusion printed aramid fiber/polyamide 12 composites by fiber surface modification. <b>2022</b> , 51, 102576		1
525	3D-printed high-toughness double network hydrogels via digital light processing. <b>2022</b> , 639, 128329		1
524	3D printing and epoxy-infusion treatment of curved continuous carbon fibre reinforced dual-polymer composites. <i>Composites Part B: Engineering</i> , <b>2022</b> , 234, 109687	10	0
523	Two-dimensional nanomaterial-based polymer composites: Fundamentals and applications. <b>2022</b> , 11, 770-792		5
522	3D Printing Metals At the Microscale: Electroplating Pyrolyzed Carbon Memes. <b>2022</b> ,		0
521	Tensile properties of 3D-printed CNT-SGF reinforced PLA composites. <b>2022</b> , 109333		1
520	3D Printing of Aramid Nanofiber Composites by Stereolithography.		1
519	Materials-oriented integrated design and construction of structures in civil engineeringA review. <b>2022</b> , 16, 24		3
518	Shape recovery of polymers with inclusions under multi-axial stress. 089270572110724		
517	Effect of Carbon Black on the Strain Sensing Property of 3D Printed Conductive Polymer Composites. 1		0
516	Digital Light Processing 3D Printing of Enhanced Polymers via Interlayer Welding.. <b>2022</b> , e2200053		1
515	Synthesis of novel acrylic liquid-crystal resin and its in-situ enhancement in light-curing 3D printing performance. <b>2022</b> ,		0
514	Thermo-mechanics of Polymers at Extreme and Failure Conditions: Influence of Strain Rate and Temperature. <b>2022</b> , 249-276		

513	A Survey of 3D Printing Technologies as Applied to Printed Electronics. <b>2022</b> , 10, 27289-27319	1
512	Engineering biomaterials to 3D-print scaffolds for bone regeneration: practical and theoretical consideration.. <b>2022</b> ,	3
511	Introduction and Background of Fiber-Reinforced Composite Materials. <b>2022</b> , 1-59	
510	Medical applications of polymer/functionalized nanoparticle composite systems, renewable polymers, and polymer/metal oxide composites. <b>2022</b> , 129-164	
509	Anisotropic solid-state PLA foaming templated by crystal phase pre-oriented with 3D printing: cell supporting structures with directional capillary transfer function.. <b>2022</b> ,	2
508	Empirical Study for 3D-Printed Robot Design: Dimensional Accuracy of a Hole and Proposal of a New Shaft-Fastening Method. <b>2022</b> ,	0
507	Materials for Food Printing. <b>2022</b> , 1-18	0
506	Mechanical Behavior of Nylon Load Bearing Structures Fabricated by Fused Deposition Modeling. <b>2022</b> , 595-608	
505	The Effect of Hilbert Curve Pattern Intensity in ASTM D638 Type III on Stress Concentration and Cyclic Application. <b>2022</b> , 129-135	
504	3D-Printed Functional Polymers and Nanocomposites: Defects Characterization and Product Quality Improvement. 2101219	1
503	Emerging polymeric biomaterials and manufacturing techniques in regenerative medicine.	1
502	Fused deposition modeling: process, materials, parameters, properties, and applications. <b>2022</b> , 120, 1531	3
501	Analysis of the mechanical anisotropy of stereolithographic 3D printed polymer composites. <b>2022</b> , 2, 12-32	1
500	An integrated prediction model for processing related yield strength of extrusion-based additive manufactured polymers. 1-11	1
499	Hole Morphology and Keyhole Evolution during Single Pulse Laser Drilling on Polyether-Ether-Ketone (PEEK).. <b>2022</b> , 15,	0
498	Review on various materials used in Additive Manufacturing. <b>2022</b> , 1228, 012015	
497	Direct Electroless Plating of Conductive Thermoplastics for Selective Metallization of 3D Printed Parts. <b>2022</b> , 102793	1
496	Recent advances in auxetics: Applications in cementitious composites. 204141962110626	

495	Mechanical performance of graphene/poly(ether ketone ketone) composite sheets by hot pressing.. <b>2022</b> , 12, 4114	1
494	Polymeric Materials for Additive Manufacturing. 1-28	
493	Additively Manufactured Surgical Implant Guides: A Review.. <b>2022</b> , 31, 38-46	1
492	Interfacial behaviors of continuous carbon fiber reinforced polymers manufactured by fused filament fabrication: A review and prospect. <b>2022</b> , 15, 1	3
491	A Review on the Use of Nanoclay Adsorbents in Environmental Pollution Control. <b>2022</b> , 233, 1	0
490	Experimental investigations on thermal, flame retardant, and impact properties of additively manufactured continuous FRPC.	0
489	The Role of 3D Printing Technology in Microengineering of Microneedles.. <b>2022</b> , e2106392	2
488	Advanced Estimation of Compressive Strength and Fracture Behavior in Ceramic Honeycombs by Polarimetry Measurements of Similar Epoxy Resin Honeycombs.. <b>2022</b> , 15,	0
487	Polypropylene Random Copolymer Based Composite Used for Fused Filament Fabrication: Printability and Properties.. <b>2022</b> , 14,	0
486	Rapid UV-Curable Form-Stable Polyethylene-Glycol-Based Phase Change Material. <b>2022</b> , 4, 2747-2756	1
485	3D Printing of Continuous Fiber Reinforced Polymer Composites: Development, Application, and Prospective. <b>2022</b> , 1, 100016	3
484	Synthesis of Silver Nanocomposites for Stereolithography: In Situ Formation of Nanoparticles.. <b>2022</b> , 14,	1
483	Additive manufacturing (3D printing): Recent progress on advancement of materials and challenges. <b>2022</b> ,	1
482	The development of 3D technology for the creation of glass sealants for tubular oxide fuel cells.	
481	Electrical Stability and Piezoresistive Sensing Performance of High Strain-Range Ultra-Stretchable CNT-Embedded Sensors.. <b>2022</b> , 14,	1
480	Impact behaviour of 3D printed cellular structures for mouthguard applications.. <b>2022</b> , 12, 4020	1
479	Hierarchical structure design of Strombus gigas shell inspired laminated artificial composites and the mechanical performance optimization strategy. 1-11	0
478	Experimental assessment of thermal gradients and layout effects on the mechanical performance of components manufactured by fused deposition modeling. <b>2022</b> , ahead-of-print,	1

477	Fabrication of continuous carbon fibre-reinforced polyetherimide through fused filament fabrication. 1	1
476	Steel fiber orientational distribution and effects on 3D printed concrete with coarse aggregate. <b>2022</b> , 55, 1	0
475	Performance Evaluation of Sandwich Structures Printed by Vat Photopolymerization.. <b>2022</b> , 14,	0
474	Expanding the design space and optimizing stop bands for mechanical metamaterials. <b>2022</b> , 216, 110510	0
473	Functional Materials for DLP-SLA 3D Printing Using Thiol/Acrylate Chemistry: Resin Design and Postprint Applications.	3
472	Novel 3D Printed Vortex-like Flexible Roller-Compacted Triboelectric Nanogenerator for Self-Powered Electrochemical Degradation of Organic Contaminants.. <b>2022</b> ,	0
471	Low viscosity & high-performance resorcinol epoxy acrylate preparation & application in stereolithography 3D printing.	
470	Influence of preheating temperature and printing speed on interlaminar shear performance of laser-assisted additive manufacturing for CCF / PEEK composites.	1
469	Effect of heat treatment on AlSi10Mg lattice structure manufactured by selective laser melting: Microstructure evolution and compression properties. <b>2022</b> , 187, 111882	0
468	Tensile Strength Enhancement of Fused Filament Fabrication Printed Parts: A Review of Process Improvement Approaches and Respective Impact. <b>2022</b> , 54, 102724	0
467	Photocurable resin-silica composites with low thermal expansion for 3D printing microfluidic components onto printed circuit boards. <b>2022</b> , 31, 103482	1
466	Thermal and morphological analysis of various 3D printed composite honeycomb cores. <b>2022</b> , 290, 115517	1
465	Development and optical 3D printing of acrylated epoxidized soybean oil-based composites with functionalized calcium silicate hydrate filler derived from aluminium fluoride production waste. <b>2022</b> , 157, 106929	0
464	3D printing of continuous carbon fiber reinforced polyphenylene sulfide: Exploring printability and importance of fiber volume fraction. <b>2022</b> , 54, 102763	2
463	3D printing of composite materials using ultralow-melt-viscosity polymer and continuous carbon fiber. <b>2022</b> , 8, 100250	1
462	Impacts of ingested MWCNT-Embedded nanocomposites in Japanese medaka (Oryzias latipes).. <b>2022</b> , 1-20	
461	The Effect of 3D Printing Process Parameters on the Mechanical Properties of PLA Parts. <b>2021</b> , 2133, 012026	2
460	A Study on the Mechanical Properties of 3D Printed PLA Specimens According to Infilled Pattern and Printing Direction. 904, 255-259	

459	Study of Mechanical Properties and Applications of Aluminium Based Composites Manufactured Using Laser Based Additive Techniques. <b>2022</b> , 261-300	
458	Recent Advancements in the Natural Fiber-Reinforced Polymer Composites. <b>2022</b> , 301-327	
457	Enhancing the Fracture Toughness of Biomimetic Composite Through 3D Printing. <b>2022</b> , 215-244	
456	Composites Manufactured by Stereolithography.	1
455	"Toolbox" for the Processing of Functional Polymer Composites.. <b>2021</b> , 14, 35	8
454	Mineralized collagen as a bioactive ink to support encapsulation of human adipose stem cells: A step towards the future of bone regeneration.. <b>2021</b> , 112600	0
453	Multi-walled carbon nanotubes (MWCNTs)-reinforced ceramic nanocomposites for aerospace applications: a review. <b>2022</b> , 57, 3923-3953	6
452	Hertzian stress analysis of metal and 3D printing materials. <b>2021</b> ,	
451	3D Printing Manufacturing Techniques, Materials, and Applications: An Overview. <b>2021</b> , 2021, 1-10	2
450	3D Nanoprinting by Electron-Beam with an Ice Resist.. <b>2021</b> ,	1
449	The stimulating effects of exometabolites of microalgae <i>Chlorella vulgaris</i> on the lactic acid bacteria <i>Bacillus coagulans</i>. <b>2021</b> , 23, 187-194	
448	A process optimization of additive layer manufacturing processes for the production of polymer composite-based components. <b>2021</b> ,	0
447	Mechanical and Physical Properties of Recycled-Carbon-Fiber-Reinforced Polylactide Fused Deposition Modelling Filament.. <b>2021</b> , 15,	2
446	Experimental studies on natural fiber composites. <b>2021</b> ,	
445	Yazdırma ABN 3B Yazıcıda PETİlen PLA Numunenin Mekanik Özellikleri Üzerine Etkisinin Deneysel ve Sonlu Elemanlar Metodu ile İncelenmesi.	
444	Effects of the Washing Time and Washing Solution on the Biocompatibility and Mechanical Properties of 3D Printed Dental Resin Materials.. <b>2021</b> , 13,	2
443	Chitosan and Whey Protein Bio-Inks for 3D and 4D Printing Applications with Particular Focus on Food Industry.. <b>2021</b> , 27,	1
442	Cyan Cationic-Initiated Photocurable Material with High Curing Rate for UV-LED Curing. <b>2022</b> , 381-387	

441	A critical review on Classification of materials used in 3D printing process. <b>2022</b> ,	2
440	Solid epoxy for functional 3D printing with isotropic mechanical properties by material extrusion. <b>2022</b> , 102797	
439	Recent developments in manufacturing, mechanics, and design optimization of variable stiffness composites. 073168442210829	0
438	Development and fabrication of continuous carbon fiber reinforced thermoplastic porous composite structures with different infill patterns by using additive manufacturing. 089270572210884	1
437	Fused Filament Fabrication 3D Printing: Quantification of Exposure to Airborne Particles. <b>2022</b> , 6, 119	1
436	Quality Control of Metal Additive Manufacturing.	
435	3D Bioprinted Scaffolds for Bone Tissue Engineering: State-Of-The-Art and Emerging Technologies.. <b>2022</b> , 10, 824156	3
434	Effects of printing direction on quasi-static and dynamic compressive behavior of 3D printed short fiber reinforced polyamide-based composites.	1
433	Zeolite-Reinforced Interpenetrating Polymer Network Initiated by Chalcone Based Photoinitiating System and Their Application in 3D/4D Printing. 2200074	0
432	In Situ Synthesis of MAPbX <sub>3</sub> Perovskite Quantum Dot-Polycaprolactone Composites for Fluorescent 3D Printing Filament. <b>2022</b> , 164961	0
431	A review on polyjet 3D printing of polymers and multi-material structures. 095440622210795	3
430	Antimicrobial properties of 3D printed biocomposites with heat-treated wood flour using silver nanoparticles with leaf extract. 1-9	
429	Advances in 3D printing of magnetic materials: Fabrication, properties, and their applications. <b>2022</b> , 11, 665-701	0
428	Recent advances in 3D printing of tough hydrogels: A review. <i>Composites Part B: Engineering</i> , <b>2022</b> , 238, 109895	10 4
427	datasheet1.docx. <b>2020</b> ,	
426	Controlled local orientation of 2D nanomaterials in 3D devices: methods and prospects for multifunctional designs and enhanced performance.	1
425	Research progress of carbon materials in the field of three-dimensional printing polymer nanocomposites. <b>2022</b> , 11, 1193-1208	2
424	Multi-layered composites using polyurethane-based foams and 3D-printed structures to curb electromagnetic pollution.	1

423	Advances in 4D printing of liquid crystalline elastomers: materials, techniques, and applications.. <b>2022,</b>	4
422	Recent advances in 3D printed structures for electromagnetic wave absorbing and shielding.	2
421	Dynamic fracture behaviour of additively manufactured polymers and composites under ballistic impact. <b>2022,</b> 37, 217-224	0
420	LIGNIN VALORIZATION PROBLEMS. <b>2022,</b> 11-33	1
419	Additively manufactured short carbon fiber reinforced polyetheretherketone by coating polyetherimide at the interface using fused filament fabrication.	
418	Void Content Reduction in 3D Printed Glass Fiber-Reinforced Polymer Composites through Temperature and Pressure Consolidation. <b>2022,</b> 6, 128	1
417	Impact of Additive Manufacturing on the Supply Chain of Aerospace Spare Parts IndustryA Review. <b>2022,</b> 6, 28	5
416	Enhanced biomedical applicability of ZrO-SiO ceramic composites in 3D printed bone scaffolds.. <b>2022,</b> 12, 6845	1
415	Experimental and Statistical Investigation of the Bending and Surface Roughness Properties on Three-Dimensional Printing Parts. <b>2022,</b> 50, 20210682	
414	Advances in Digital Light Processing of Hydrogels.. <b>2022,</b>	1
413	A Review on Printing of Responsive Smart and 4D Structures Using 2D Materials. 2200025	1
412	SERS and Fluorescence-Active Multimodal Tessellated Scaffolds for Three-Dimensional Bioimaging.. <b>2022,</b>	2
411	Application and Prospects of Hydrogel Additive Manufacturing. <b>2022,</b> 8, 297	2
410	4D printing technology in medical engineering: a narrative review. <b>2022,</b> 44,	5
409	The Influence of Solar Sintering on Copper Heat Exchanger Parts with Controlled 3D-Printed Morphology.. <b>2022,</b> 15,	
408	Meso scale component manufacturing: a comparative analysis of non-lithography and lithography-based processes. <b>2022,</b> 32, 063002	1
407	Current and emerging trends in polymeric 3D printed microfluidic devices. <b>2022,</b> 102867	1
406	Charge Transfer Complexes (CTCs) with Pyridinium Salts: Towards Efficient Dual Photochemical/Thermal Initiators and 3D Printing Applications.. <b>2022,</b> e2200314	0

405	High Content Nanocellulose 3D-Printed and Esterified Structures with Strong Interfacial Adhesion, High Mechanical Properties, and Shape Fidelity. 2200280	3
404	Numerical and experimental study on optimization of distributed material-orientation for frequency response of CFRP shell structures. <b>2022</b> , 115697	0
403	Direct Ink Writing of Carbon-Doped Polymeric Composite Ink: A Review on Its Requirements and Applications.	0
402	DLP-Based 3D Printing for Automated Precision Manufacturing. <b>2022</b> , 2022, 1-14	
401	Tribological characteristics of digital light processing (DLP) 3D printed graphene/resin composite: Influence of graphene presence and process settings. <b>2022</b> , 218, 110718	5
400	Bioactive inks suitable for 3D printing based on waterborne polyurethane urea, cellulose nanocrystals and Salvia extract. <b>2022</b> , 175, 105286	0
399	3D pattern formation from coupled Cahn-Hilliard and Swift-Hohenberg equations: Morphological phases transitions of polymers, block and diblock copolymers. <b>2022</b> , 210, 111431	0
398	Additive manufactured replica foams. <b>2022</b> , 10, 100258	0
397	Contributions of interfaces on the mechanical behavior of 3D printed continuous fiber reinforced composites. <b>2022</b> , 340, 127842	2
396	Enhanced thermal conductivity of epoxy acrylate/ h-BN and AlN composites by photo-curing 3D printing technology.	0
395	Dissolvable polymer microneedles for drug delivery and diagnostics.. <b>2022</b> ,	5
394	A review on 3D printing process on metals and their surface roughness and dimensional accuracy. <b>2022</b> ,	
393	Bone response in vivo of Ti-45Zr alloy as dental implant material. <b>2022</b> , 33,	0
392	Laser Powder Bed Fusion of Polyamide-composite for Antibacterial Applications: Characterization and Properties. <b>2022</b> , 103727	
391	Current trends in additively manufactured (3D printed) energy absorbing structures for crashworthiness application <a href="#">a</a> review. 1-44	3
390	Coal polymer composites prepared by fused deposition modeling (FDM) 3D printing.	0
389	Six decades of UHMWPE in reconstructive surgery. 1-36	1
388	Additive Manufacturing of Polymer-Derived Ceramics: Materials, Technologies, Properties and Potential Applications. <b>2022</b> , 100969	6

- 387 3D printing of continuous fiber reinforced composites: A review of the processing, pre- and post-processing effects on mechanical properties. **2022**, 30, 096739112210987 1
- 386 Hybrid Novel Additive Manufacturing for Sustainable Usage of Waste. **2022**, 2022, 1-12
- 385 Functional, thermal and rheological properties of polymer-based magnetic composite filaments for additive manufacturing. **2022**, 110806 1
- 384 3D Printing and Additive Manufacturing. **2022**, 267-309
- 383 A comprehensive review on 3D printing advancements in polymer composites: technologies, materials, and applications. 0
- 382 Additive manufacturing of biomaterials for bone tissue engineering [A critical review of the state of the art and new concepts. **2022**, 100963 1
- 381 Current Advances and Future Perspectives of Advanced Polymer Processing for Bone and Tissue Engineering: Morphological Control and Applications. **2022**, 10, 0
- 380 Recent advances in fused deposition modeling based additive manufacturing of thermoplastic composite structures: A review. 089270572211028 3
- 379 An application- and market-oriented review on large format additive manufacturing, focusing on polymer pellet-based 3D printing. 0
- 378 Effect of Raster and Build Orientation on Fracture Toughness for Additively Manufactured Multi-fiber Reinforced ABS Composites.
- 377 All 3D Printing Shape-Conformable Zinc Ion Hybrid Capacitors with Ultrahigh Areal Capacitance and Improved Cycle Life. 2200341 2
- 376 A Comprehensive Review of Biopolymer Fabrication in Additive Manufacturing Processing for 3D-Tissue-Engineering Scaffolds. **2022**, 14, 2119 2
- 375 Effect of combined gradation in cross-sectional area and density on the dynamic compressive behaviour of foams for moderate impact velocities. **2022**, 104381
- 374 The Implications of 3D-Printed Membranes for Water and Wastewater Treatment and Resource Recovery. 1
- 373 Reduction of the lasing threshold in optically pumped AlGaN/GaN lasers with two-step etched facets. **2022**, 37, 075013 0
- 372 Hydrogel-based scaffolds for bone and cartilage tissue engineering and regeneration. **2022**, 105313 1
- 371 Experimental investigation on the application of FDM 3D printed conductive ABS-CB composite in EMI shielding. **2022**, 198, 110263 1
- 370 Additive manufacturing of recyclable, highly conductive, and structurally robust graphite structures. **2022**, 3, 100061

369	3D printing of graphene polymer composites. <b>2022</b> , 247-281	
368	Foot Orthosis and Sensorized House Slipper by 3D Printing. <b>2022</b> , 15, 4064	1
367	Recycling strategies for vitrimers. 1-24	1
366	Additive manufacturing of functional devices for environmental applications: A review. <b>2022</b> , 10, 108049	1
365	A Study of Tensile Characteristics for Glass and Carbon Fiber Along with Sandwiched Reinforced ABS Composites.	
364	A Review of Multi-Material 3D Printing of Functional Materials via Vat Photopolymerization. <b>2022</b> , 14, 2449	2
363	A review on carbon fiber-reinforced hierarchical composites: mechanical performance, manufacturing process, structural applications and allied challenges.	2
362	Surgery Training System Supported by Organic Materials. <b>2022</b> , 15, 4162	0
361	Fabrication and characterization of innovative chitosan/doxorubicin coated 3D printed microneedle patch for prolonged drug delivery.	0
360	Review: Auxetic Polymer-Based Mechanical Metamaterials for Biomedical Applications.	3
359	Additive manufacturing of jute fiber reinforced polymer composites: A concise review of material forms and methods.	1
358	Effect of process parameters on surface roughness of 316L stainless steel coated 3D printed PLA parts. <b>2022</b> ,	2
357	Optimal conditions and generation mechanism of jet atomization for uniform distribution of nano- and micro-droplets.	
356	An experimental study on the properties changing in recyclable fiber-reinforced 3D printing.	0
355	Compression behavior of 3D printed isogrid cylindrical shell structures using experimental and finite element modeling.	
354	Techniques for designing patterned conducting polymers. <b>2022</b> , 39-77	
353	4D-printed light-responsive structures. <b>2022</b> , 55-105	
352	Polymers in printing filaments. <b>2022</b> , 155-269	0

351	Biomaterials for Mimicking and Modelling Tumor Microenvironment. <b>2022</b> , 139-170	0
350	Investigation of the dynamic mechanical analysis and mechanical response of 3D printed nylon carbon fiber composites with different build orientation.	0
349	Effects of fused filament fabrication parameters on the manufacturing of 316L stainless-steel components: geometric and mechanical properties.	0
348	Preparation of porous SiC ceramics skeleton with low-cost and controllable gradient based on liquid crystal display 3D printing. <b>2022</b> ,	0
347	Mechanical and self-sensing properties of 3D printed continuous carbon fiber reinforced composites.	0
346	TPU-based porous heterostructures by combined techniques. <b>2022</b> ,	2
345	Influence of multi-walled carbon nanotube content on electromagnetic wave absorption and mechanical properties of carbon nanotube/polyamide 12 composite.	0
344	A comparative study of mechanical behavior of ABS material based on UVC sterilization for medical usage. <b>2022</b> , 36, 3373-3385	
343	Research on the Simulation Model of Continuous Fiber-Reinforced Composites Printing Track. <b>2022</b> , 14, 2730	1
342	Research on a Fiber Corner Compensation Algorithm in a 3D Printing Layer of Continuous Fiber-Reinforced Composite Materials. <b>2022</b> , 12, 6687	
341	A study of conformational variation of temperature-dependent PEEK molecular structures subject to stretching speeds by molecular dynamics simulations.	
340	Effect of impregnated phenolic resin on the properties of SiSiC ceramic matrix composites fabricated by SLS-RMI. <b>2022</b> ,	
339	Hot-lithography 3D printing of biobased epoxy resins. <b>2022</b> , 254, 125097	0
338	Fabrication Methods of Electroactive Scaffold-Based Conducting Polymers for Tissue Engineering Application: A Review. 10,	0
337	A hybrid coating of polydopamine and nano-hydroxyapatite enhances surface properties of 3D printed poly(lactic-co-glycolic acid) scaffolds. <b>2022</b> , 57, 13011-13026	0
336	Design of 3D-Printed Electronic Fiber Optic Sensor to Detect Rhodamine B Reagent: An Initiation to Potential Virus Detection. <b>2022</b> , 7, 94	
335	The Role of Molar Mass in Achieving Isotropy and Inter-Layer Strength in Mat-Ex Printed Polylactic Acid. <b>2022</b> , 14, 2792	1
334	Shear and Tensile Behaviors of Fiber-Reinforced Resin Matrix Composites Printed by the FDM Technology. <b>2022</b> , 12, 1000	

333	Double scaffold networks regulate edible pickering emulsion gel for designing thermally actuated 4D printing. <b>2022</b> , 107969	1
332	Improving mechanical properties and biocompatibility of 3D printed PLA by the addition of PEG and titanium particles, using a novel incorporation method. <b>2022</b> , e00228	1
331	Measurement of Orthotropic Material Constants and Discussion on 3D Printing Parameters in Additive Manufacturing. <b>2022</b> , 12, 6812	
330	A novel three-dimensional printed device with conductive elements for electromembrane extraction combined with high-performance liquid chromatography and ultraviolet detector.	0
329	3D printing of continuous carbon fibre reinforced powder-based epoxy composites. <b>2022</b> , 33, 101239	0
328	Optimized design for modified auxetic structures based on a neural network approach. <b>2022</b> , 32, 103931	0
327	Tailoring interfacial properties of 3D-printed continuous natural fiber reinforced polypropylene composites through parameter optimization using machine learning methods. <b>2022</b> , 32, 103985	1
326	Computational homogenization of bio-inspired metamaterial with a random fiber network microstructure. <b>2022</b> , 124, 103930	0
325	Measuring and understanding cure-dependent viscoelastic properties of epoxy resin: A review. <b>2022</b> , 114, 107701	2
324	On strain rate and temperature dependent mechanical properties and constitutive models for additively manufactured polylactic acid (PLA) materials. <b>2022</b> , 179, 109624	0
323	Development of a Platform for the Freeform Extrusion of a Glass Fiber Reinforced Photopolymer. <b>2021</b> ,	
322	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. <b>2022</b> , 103050	0
321	Tissue engineered scaffold fabrication methods for medical applications. 1-25	0
320	Compression and Bending Properties of Short Carbon Fiber Reinforced Polymers Sandwich Structures Produced via Fused Filament Fabrication Process. <b>2022</b> , 14, 2923	2
319	4D printing of shape memory polymer composites: A review on fabrication techniques, applications, and future perspectives. <b>2022</b> , 81, 759-797	8
318	Lessons from nature: 3D printed bio-inspired porous structures for impact energy absorption [A review. <b>2022</b> , 58, 103051	3
317	Nanomaterial integrated 3D printing for biomedical applications.	2
316	Development of a Novel Hybrid Manufacturing Technology For Continuous Fiber-Reinforced Thermo-Plastic Composites. <b>2022</b> , 5, 39-44	

- 315 Thermal Expansion of Plastics Used for 3D Printing. **2022**, 14, 3061 0
- 314 Influence of Photo-initiator concentration on photoactivation of composites prepared with LTCC and silver powders for DLP based 3D printing and their characterization. **2022**, 1248, 012095
- 313 Effect of Cryogenic Heat Treatment and Heat Treatment on the Influence of Mechanical, Mechanical, Energy, and Wear Properties of 316L Stainless Steel by Selective Laser Melting.
- 312 Bending Strength of Polyamide-Based Composites Obtained during the Fused Filament Fabrication (FFF) Process. **2022**, 15, 5079
- 311 Exploiting mono- and hybrid nanocomposite materials for fused filament fabrication with acrylonitrile butadiene styrene as polymer matrix.
- 310 Advanced Cementitious Composites. **2022**, 305-391
- 309 Digital Light Processing of Highly Filled Polymer Composites with Interface-Mediated Mechanical Properties. 0
- 308 Numerical Investigation of the Cycling Loading Behavior of 3D-Printed Poly-Lactic Acid (PLA) Cylindrical Lightweight Samples during Compression Testing. **2022**, 12, 8018 2
- 307 Compression and buckling analysis of 3D printed carbon fibre-reinforced polymer cellular composite structures. **2022**, 116167 2
- 306 Effect of NdFeB particle size on the performance of 3D printed bonded magnets of polyamide-based composites.
- 305 Additive manufacturing (3D printing) of electrically conductive polymers and polymer nanocomposites and their applications. **2022**, 5
- 304 Development and Characterization of PHB-PLA/Corncob Composite for Fused Filament Fabrication. **2022**, 6, 249 1
- 303 Estimation of shelf life of 3D-printed PLA scaffolds by accelerated weathering. **2022**, 32, 104140 1
- 302 3D Printing of Hybrid-Hydrogel Materials for Tissue Engineering: a Critical Review.
- 301 Additive Manufacturing of Biomaterials Design Principles and Their Implementation. **2022**, 15, 5457 2
- 300 Bonding and Strengthening the PLA Biopolymer in Multi-Material Additive Manufacturing. **2022**, 15, 5563 2
- 299 Production of highly concentrated commodity thermoplastic NP suspensions with 3D printed confined impinging jet mixers and efficient downstream operations. **2022**, 117835
- 298 Nondestructive Forensic Comparison of Nylon Trace Evidence Using Room-Temperature Fluorescence Spectroscopy.

297	Investigations on the mechanical properties of PLA/Flax fibre composites obtained by Fused Filament Fabrication. 1-14	1
296	Mechanical properties and failure behavior of 3D printed thermoplastic composites using continuous basalt fiber under high-volume fraction. <b>2022</b> ,	0
295	Emerging application of 3D-printing techniques in lithium batteries: From liquid to solid. <b>2022</b> ,	1
294	Bioinspired Pattern-Driven Single-Material 4D Printing for Self-Morphing Actuators. <b>2022</b> , 14, 10141	0
293	Identification of tensile behaviour of polylactic acid parts manufactured by fused deposition modelling under heat-treated conditions using nonlinear autoregressive with exogenous and transfer function models. <b>2022</b> ,	
292	FFF 3D Printing of Small Porous Structures from Polymer Compounds Using the Ultimaker 3. 2200095	0
291	Review of balsa core sandwich composite structures. <b>2022</b> , 221, 111013	3
290	3D printing of short fiber reinforced composites via material extrusion: Fiber breakage. <b>2022</b> , 58, 103067	0
289	Multifunctional silk fibroin [Poly(L-lactic acid) porous nanofibers: Designing adjustable nanopores to control composite properties and biological responses. <b>2022</b> , 222, 111053	0
288	Experimental study on interface failure behavior of 3D printed continuous fiber reinforced composites. <b>2022</b> , 59, 103077	0
287	Selective laser sintering 3D-Printed conductive thermoplastic polyether-block-amide elastomer/carbon nanotube composites for strain sensing system and electro-induced shape memory. <b>2022</b> , 35, 101280	1
286	An investigation into printing pressure of 3D printed continuous carbon fiber reinforced composites. <b>2022</b> , 162, 107162	1
285	Tensile behavior of additively manufactured carbon fiber reinforced polyamide-6 composites. <b>2022</b> , 61, 624-641	0
284	Machine learning-enabled optimization of extrusion-based 3D printing. <b>2022</b> , 206, 27-40	1
283	Photopolymerization of ceramic/zeolite reinforced photopolymers: Towards 3D/4D printing and gas adsorption applications. <b>2022</b> , 179, 111552	0
282	A multifunctional nanofiber reinforced photo-crosslinking hydrogel for skin wound healing. <b>2022</b> , 247, 110294	1
281	Experimental and numerical studies on the compression responses of novel mixed lattice structures. <b>2022</b> , 33, 104439	0
280	Micro/nano functional devices fabricated by additive manufacturing. <b>2023</b> , 131, 101020	4

279	Carbon dots and miniaturizing fabrication of portable carbon dots-based devices for bioimaging, biosensing, heavy metals detection and drug delivery applications.	0
278	2D Fusion Simulations and Experimental Confirmations of Print Paths Using Composite Particles with Particle Method for Fused Filament Fabrication. <b>2022</b> , 12, 111-130	0
277	Applications, fluid mechanics, and colloidal science of carbon-nanotube-based 3D printable inks.	0
276	Material Extrusion and Vat Photopolymerization Principles, Opportunities and Challenges. <b>2022</b> , 53-76	0
275	Introduction to Additive Manufacturing. <b>2022</b> , 1-44	0
274	Plastic Waste Management in Additive Manufacturing. <b>2022</b> , 1-7	0
273	Magnetic Binary Encoding System Based on 3d Printing and Gmi Detection Prototype.	0
272	Evolution and emerging trends of 4D printing: a bibliometric analysis. <b>2022</b> , 9, 30	0
271	Natural polymers for wound dressing applications. <b>2022</b> , 367-441	0
270	Progress of Additive Manufacturing Technology and Its Medical Applications. <b>2022</b> , 1,	1
269	Applications of nanotubes in preparation of polymer composite materials. <b>2022</b> , 557-578	0
268	Tailored Additives for Incorporation of Antibacterial Functionality Into Laser Sintered Parts. 1,	0
267	Flexural Fatigue in a Polymer Matrix Composite Material Reinforced with Continuous Kevlar Fibers Fabricated by Additive Manufacturing. <b>2022</b> , 14, 3586	3
266	A modular framework to obtain representative microstructural cells of additively manufactured parts. <b>2022</b> ,	0
265	Review on Innovative Piezoelectric Materials for Mechanical Energy Harvesting. <b>2022</b> , 15, 6227	3
264	Effect of induced plastic strain on the porosity of PA12 printed through selective laser sintering studied by X-ray computed micro-tomography.	0
263	Direct-write 3D printing of UV-curable composites with continuous carbon fiber. 002199832211271	1
262	Mechanical characterisation of AM nylon-matrix carbon-fibre-reinforced composite in tension. <b>2022</b> ,	0

261	Crashworthiness performance of hybrid energy absorbers using PET-G honeycomb structure. 1-26	1
260	Lithography-based 3D printed hydrogels: From bioresin designing to biomedical application. <b>2022</b> , 50, 100667	0
259	Selective laser sintering of phase change composites for thermal management systems. <b>2022</b> ,	0
258	4D printing: A detailed review of materials, techniques, and applications. <b>2022</b> , 265, 111874	2
257	Scalable multi-material additive manufacturing of bioinspired polymeric material with metallic structures via electrically assisted stereolithography. 1-30	2
256	An Open-Source Bioink Database for Microextrusion 3D Printing.	0
255	Usage of 3D Printed Polylactic Acid as a Core Material in Forming of Carbon Fiber Fabric Composite.	0
254	Resistance of 3D-Printed Components, Test Specimens and Products to Work under Environmental Conditions Review. <b>2022</b> , 15, 6162	1
253	Three-Dimensional Printing of Molecularly Imprinted Polymers by Digital Light Processing for Copper Ion Sequestration.	0
252	Streamline Effect Improvement of Additive Manufactured Airfoil Utilizing Dynamic Stream Control Procedure. <b>2022</b> , 2022, 1-12	0
251	Lightweight, ultra-tough, 3D-architected hybrid carbon microlattices. <b>2022</b> ,	1
250	Feasibility of thin film nanocomposite membranes for clean energy using pressure retarded osmosis and reverse electrodialysis. <b>2022</b> , 7, 100141	1
249	Development and Processing of New Composite Materials Based on High-Performance Semicrystalline Polyimide for Fused Filament Fabrication (FFF) and Their Biocompatibility. <b>2022</b> , 14, 3803	0
248	The piperazine pyrophosphate intumescent flame retardant of polypropylene composites prepared by selective laser sintering.	1
247	Advances in selective laser sintering of polymers. <b>2022</b> , 4, 042002	2
246	Quasi-ductile to brittle transitional behavior and material properties gradient for additively manufactured SLA acrylate. <b>2022</b> , 133121	0
245	2.5D, 3D and 4D printing in nanophotonics - a progress report. <b>2022</b> ,	2
244	Modified rod-shaped calcium carbonate with thiols improving UV -curing 3D printing resin.	0

243	3D-printed microrobots from design to translation. <b>2022</b> , 13,	4
242	Dimensional fidelity and mechanical analysis of 3D printed polymer composites. <b>2022</b> ,	0
241	Low-velocity single and repeated impact behavior of 3D printed honeycomb cellular panels. <b>2022</b> , 64, 1420-1436	0
240	In situ volumetric imaging and analysis of FRESH 3D bioprinted constructs using optical coherence tomography.	1
239	Influence of printing process parameters and controlled cooling effect on the quality and mechanical properties of additively manufactured CCFRPC. <b>2022</b> , 35, 101338	0
238	Evaluation of fracture properties of 3D printed high impact polystyrene according to essential work of fracture: Effect of raster angle. <b>2022</b> , 59, 103191	1
237	Multiphysics modeling of frontal polymerization-assisted layer-by-layer additive manufacturing of thermoset polymer components. <b>2022</b> , 59, 103182	1
236	High-performance continuous carbon fiber composite filament via solution process. <b>2022</b> , 115, 466-475	1
235	Deep drawing punches produced using fused filament fabrication technology: Performance evaluation. <b>2022</b> , 84, 1-9	0
234	Effects of a rotary shear field on the interlayer bond and mechanical properties of polylactide fabricated using fused filament fabrication. <b>2022</b> , 116, 107805	0
233	Biomedical Applications. <b>2022</b> , 155-189	0
232	Vat Photopolymerization. <b>2022</b> , 17-46	0
231	Powder Bed Fusion. <b>2022</b> , 81-103	0
230	An analysis of hot topics and trends in foreign 3D printing technology research—Analysis of knowledge graphs based on citation indexes such as SSCI. <b>2022</b> ,	0
229	Three-dimensional printing and 3D slicer powerful tools in understanding and treating neurosurgical diseases. 9,	0
228	Additive manufacturing for metal-based bio-implant development: A bibliometric analysis. 095440892211327	0
227	Nanoengineered Textiles for Outdoor Personal Cooling and Drying. 2209029	1
226	The Impact of Zinc Oxide Micro-Powder Filler on the Physical and Mechanical Response of High-Density Polyethylene Composites in Material Extrusion 3D Printing. <b>2022</b> , 6, 315	0

- 225 Reducing Surface Roughness of 3D Printed Short-Carbon Fiber Reinforced Composites. **2022**, 15, 7398 ○
- 224 Predicting Material Properties of Additively Manufactured Acrylonitrile Butadiene Styrene via a Multiscale Analysis Process. **2022**, 14, 4310 ○
- 223 Strengthening of additive manufactured parts by using different type of fibre reinforcements. ○
- 222 Overview on 3D and 4D Printing Techniques and Their Emerging Applications in Medical Sectors. **2022**, 16, ○
- 221 4D Multiscale Origami Soft Robots: A Review. **2022**, 14, 4235 ○
- 220 Water Absorption Rates and Mechanical Properties of Material Extrusion-Printed Continuous Carbon Fiber-reinforced Nylon Composites. **2022**, ○
- 219 Immobilization of photocatalytic materials for (waste)water treatment using 3D printing technology Advances and challenges. **2022**, 120549 ○
- 218 Synthesis, properties, and applications of polylactic acid-based polymers. ○
- 217 Effect of Process Parameters on the Quality of Additively Manufactured PETG-Silk Composite. ○
- 216 3D-Printed Fiber-Reinforced Polymer Composites by Fused Deposition Modelling (FDM): Fiber Length and Fiber Implementation Techniques. **2022**, 14, 4659 2
- 215 Magnetic binary encoding system based on 3D printing and GMI detection prototype. **2022**, 347, 113946 ○
- 214 Effects of accelerated weathering on properties of 3D-printed PLA scaffolds. **2022**, 33, 104821 ○
- 213 Recent advances on bioactive baghdadite ceramic for bone tissue engineering applications: 20 years of research and innovation (a review). **2022**, 17, 100473 3
- 212 Evaluation of electrospun PCL diol-based elastomer fibers as a beneficial matrix for vascular tissue engineering. **2022**, 220, 112963 ○
- 211 Increased strength in carbon-poly(ether ether ketone) composites from material extrusion with rapid microwave post processing. **2022**, 60, 103209 ○
- 210 Modeling of two-photon polymerization in the strong-pulse regime. **2022**, 60, 103241 1
- 209 Fusion-bonding performance of short and continuous carbon fiber synergistic reinforced composites using fused filament fabrication. **2023**, 248, 110370 ○
- 208 Self-healing materials based on disulfide bond-containing acrylate networks. **2023**, 117, 107832 ○

207	Quasi-static penetration property of 3D printed woven-like ramie fiber reinforced biocomposites. <b>2023</b> , 303, 116313	4
206	Conductive fibers for biomedical applications. <b>2023</b> , 22, 343-364	0
205	Polymer nanocomposites for plasmonics: In situ synthesis of gold nanoparticles after additive manufacturing. <b>2023</b> , 117, 107869	0
204	Development of polypropylene-based composites through fused filament fabrication: The effect of carbon-based fillers. <b>2023</b> , 164, 107308	1
203	Wide-range tuning of the mechanical properties of TPMS lattice structures through frequency variation. <b>2022</b> , 111370	0
202	Effect of Penetrative Combustion on Regression Rate of 3D Printed Hybrid Rocket Fuel. <b>2022</b> , 9, 696	0
201	Overview of Electricity Transmission Conductors: Challenges and Remedies. <b>2022</b> , 15, 8094	1
200	On the Evolution of Additive Manufacturing (3D/4D Printing) Technologies: Materials, Applications, and Challenges. <b>2022</b> , 14, 4698	1
199	Exertions of Magnetic Polymer Composites Fabricated via 3D Printing.	0
198	3D Printing of PLA/Magnetic Ferrite Composites: Effect of Filler Particles on Magnetic Properties of Filament. <b>2022</b> , 10, 2412	0
197	Experimental investigations on the effect of infill patterns on PLA for structural applications. <b>2022</b> ,	0
196	A Comprehensive Review on Graphitic Carbon Nitride for Carbon Dioxide Photoreduction. 2201013	0
195	Monitoring inner temperature change of carbon fiber in additive manufacturing process using fiber optic sensors. <b>2022</b> , 113996	0
194	Experimental Study of the Wind Pressure Field on the Notre Dame Cathedral in Paris. 1-21	0
193	Investigation of ABS bil palm fiber ( <i>Elaeis guineensis</i> ) composites filament as feedstock for fused deposition modeling.	4
192	Mechanical Properties and Deformation Mechanism of Bimodal-Rubber-Particle-Toughened Polyphenylene Ether/Polystyrene Blends.	0
191	Optimizing the material and printing parameters of the additively manufactured fiber-reinforced polymer composites using an artificial neural network model and artificial bee colony algorithm. <b>2022</b> , 46, 1781-1795	0
190	High porosity composite structures produced from poly(lactic acid)/hydroxyapatite microspheres using novel Dual Beam Laser Sintering method: Analysis of structural, mechanical and thermal properties. <b>2022</b> , 84, 1284-1297	0

189	Ultrasonic fatigue analysis of 3D-printed carbon fiber reinforced plastic. <b>2022</b> , e11671	0
188	3D printing of continuous fiber reinforced cellular structural composites for the study of bending performance. 073168442211370	0
187	Bioresorbable polylactic acid (PLA) and bioactive glasses (BG) composite: Influence of gold coated of BG powder on mechanical properties and chemical reactivity. <b>2022</b> , 105571	0
186	Materials selection of 3D printed polyamide-based composites at different strain rates: A case study of automobile front bumpers. <b>2022</b> , 84, 1449-1462	1
185	Polymer-matrix nanocomposites and its potential applications. <b>2023</b> , 567-583	0
184	Various manufacturing methods and ideal properties of scaffolds for tissue engineering applications. <b>2023</b> , 1, 100011	0
183	Global perspective and African outlook on additive manufacturing research An overview. <b>2022</b> , 9, 35	0
182	Polyurethane/single wall carbon nanotube/polymethylmethacrylate nanocomposite: PM3 semi-empirical method, Monte Carlo applied. <b>2022</b> , 32,	0
181	Mechanical performance of non-reinforced, carbon fiber reinforced and glass bubbles reinforced 3D printed PA12 polyamide. <b>2023</b> , 118, 107891	1
180	Additive manufacturing of microstructured reactors for organometallic catalytic reactions.	0
179	Self-activating metal-polymer composites for the straightforward selective metallization of 3D printed parts. <b>2023</b> , 22, 1855-1867	0
178	Sustainability in the manufacturing of composite materials: A literature review and directions for future research. <b>2023</b> , 85, 858-874	0
177	Strength and its variability in 3D printing of polymer composites with continuous fibers. <b>2023</b> , 225, 111505	0
176	Electrical anisotropy controlled heating of acrylonitrile butadiene styrene 3D printed parts. <b>2023</b> , 225, 111507	0
175	3D printed continuous fiber reinforced composite lightweight structures: A review and outlook. <b>2023</b> , 250, 110450	3
174	Thermal conductivity of 3D-printed continuous pitch carbon fiber composites. <b>2023</b> , 4, 100106	0
173	Study on crashworthiness of nature-inspired functionally graded lattice metamaterials for bridge pier protection against ship collision. <b>2023</b> , 277, 115404	0
172	Structural composite based on 3D printing polylactic acid/carbon fiber laminates (PLA/CFRC) as an alternative material for femoral stem prosthesis. <b>2023</b> , 138, 105632	0

171	Material, design, and fabrication of custom prosthetic liners for lower-extremity amputees: A review. <b>2023</b> , 17, 100197	0
170	Biomechanical properties of a customizable TPU/PCL blended esophageal stent fabricated by 3D printing. <b>2023</b> , 34, 105196	0
169	Lattice structures with negative Poisson's ratio: A review. <b>2023</b> , 34, 105132	1
168	Image Processing and Machine Learning Methods Applied to Additive Manufactured Composites for Defect Detection and Toolpath Reconstruction. <b>2022</b> , 19-44	0
167	Design strategies for composite matrix and multifunctional polymeric scaffolds with enhanced bioactivity for bone tissue engineering. 10,	0
166	Effect of processing parameters on properties of printed and consolidated thermoplastic composites. 073168442211408	0
165	Research progress of 3D printing combined with thermoplastic foaming. 9,	0
164	A Development of New Material for 4D Printing and the Material Properties Comparison between the Conventional and Stereolithography Polymerised NVCL Hydrogels. <b>2022</b> , 13, 262	3
163	Anti-adhesive activity of some secondary metabolites against Staphylococcus aureus on 3D printing medical materials.	0
162	Laser-Induced Graphene Enabled Additive Manufacturing of Multifunctional 3D Architectures with Freeform Structures. 2204990	0
161	Evaluation of the Interfacial Interaction Ability between Basalt Fibers and the Asphalt Mastic. <b>2022</b> , 15, 8209	0
160	Effect of infill pattern on fatigue characteristics of 3D printed polymers. <b>2022</b> ,	0
159	A review on additive manufacturing of carbon fiber-reinforced polymers: Current methods, materials, mechanical properties, applications and challenges.	0
158	Mass Customization of Polylactic Acid (PLA) Parts via a Hybrid Manufacturing Process. <b>2022</b> , 14, 5413	1
157	Experimental Characterisation and Finite Element Modelling of Polyamide-12 Fabricated via Multi Jet Fusion. <b>2022</b> , 14, 5258	0
156	Design and Analysis of Multistable Curvilinear-fiber Laminates Based on Continuous Fiber 3D Printing of Thermosetting Resin Matrix. <b>2022</b> , 116616	0
155	Additive Manufacturing of Polymer/Mg-Based Composites for Porous Tissue Scaffolds. <b>2022</b> , 14, 5460	0
154	Mechanical performance of solid and sheet network-based stochastic interpenetrating phase composite materials. <b>2022</b> , 110478	0

153	Stress-driven infill mapping for 3D-printed continuous fiber composite with tunable infill density and morphology. <b>2022</b> , 103374	0
152	Recycling of waste crab shells into reinforced poly (lactic acid) biocomposites for 3D printing. <b>2022</b> ,	0
151	A review on materials and performance characteristics of polymer gears. 095440622211421	0
150	Temperature and Infill Density Effects on Thermal, Mechanical and Shape Memory Properties of Polylactic Acid/Poly( $\epsilon$ -caprolactone) Blends for 4D Printing. <b>2022</b> , 15, 8838	0
149	Finite element analysis of oil palm fiber reinforced thermoplastic composites for fused deposition modeling. <b>2022</b> ,	0
148	Applications of Additive Manufacturing Techniques in the Fabrication of Thermoelectric Materials and Devices. <b>2023</b> , 527-560	0
147	Printable lightweight polymer-based energy harvesting systems: materials, processes and applications. <b>2022</b> , 100292	0
146	Investigation of Carbon Fiber on the Tensile Property of FDM-Produced PLA Specimen. <b>2022</b> , 14, 5230	3
145	Impact and tensile performance of continuous 3D-printed Kevlar fiber-reinforced composites manufactured by fused deposition modelling.	0
144	An Insight from Nature: Honeycomb Pattern in Advanced Structural Design for Impact Energy Absorption. <b>2022</b> ,	0
143	The effect of process parameters on the mechanical properties of additively manufactured parts using a hierarchical multiscale model.	0
142	Numerical Modeling Based on Finite Element Analysis of 3D-Printed Wood-Polylactic Acid Composites: A Comparison with Experimental Data. <b>2023</b> , 14, 95	0
141	Design and Fabrication of an In Situ Short-Fiber Doser for Fused Filament Fabrication 3D Printer: A Novel Method to Manufacture FiberPolymer Composite. <b>2023</b> , 8, 10	0
140	Laser and Arc-Based Methods for Additive Manufacturing of Multiple Material Components [From Design to Manufacture. <b>2023</b> , 185-217	0
139	Additively manufactured materials and structures: A state-of-the-art review on their mechanical characteristics and energy absorption. <b>2023</b> , 108102	1
138	Effects of printing parameters on fiber eccentricity and porosity level in a thermoplastic matrix composite reinforced with continuous banana fiber fabricated by FFF with in situ impregnation.	0
137	Replacing all petroleum-based chemical products with natural biomass-based chemical products: a tutorial review.	0
136	3D-printed Immunosensor for the Diagnosis of Parkinson's Disease. <b>2023</b> , 133353	0

- 135 Advances in Carbon-Based Resistance Strain Sensors. 0
- 134 FDM-based additive manufacturing of recycled thermoplastics and associated composites. 0
- 133 Alginate Hydrogels Reinforced by Dehydration under Stress Application to a Soft Magnetic Actuator. **2023**, 9, 39 0
- 132 Laser and Arc-Based Methods for Additive Manufacturing of Multiple Material Components From Design to Manufacture. **2023**, 155-184 0
- 131 The Role of Additive Manufacturing in the Age of Sustainable Manufacturing 4.0. **2023**, 57-78 0
- 130 Effects of 2D filler on rheology of additive manufacturing polymers: Simulation and experiment on polyetherketoneketone -mica composites. **2023**, 125722 0
- 129 Characterization and Performance of Additive Manufactured Novel bio-waste Polylactic acid eco-friendly Composites. 0
- 128 Recent Developments in 3D Bio-Printing and Its Biomedical Applications. **2023**, 15, 255 1
- 127 Failure progression and toughening mechanism of 3D-printed nacre-like structures under in-plane compression. **2023**, 138, 105653 0
- 126 Auxetic mechanical metamaterials and their futuristic developments: A state-of-art review. **2023**, 34, 105285 3
- 125 Magnetic and electrically conductive polyurethane composites with high content of two functional fillers base on Root-Inspired microstructure. **2023**, 252, 110512 0
- 124 Detailed void characterisation by X-ray computed tomography of material extrusion 3D printed carbon fibre/PEEK. **2023**, 308, 116635 0
- 123 A review of 3D concrete printing Materials and process characterization, economic considerations and environmental sustainability. **2023**, 66, 105863 0
- 122 FDM Products Strength Increasing Using the Algorithmic Means of 3-D Printers Working. **2022**, 0
- 121 Recent Advances and Progress of Conducting Polymer-Based Hydrogels in Strain Sensor Applications. **2023**, 9, 12 0
- 120 Applications and Challenges of 3D Printed Polymer Composites in the Emerging Domain of Automotive and Aerospace: A Converged Review. 0
- 119 Mechanical properties and damage failure of 3D -printed continuous carbon fiber-reinforced composite honeycomb sandwich structures with fiber-interleaved core. 1
- 118 Ethylene-Vinyl Acetate Copolymers as Potential Thermoplastic Modifiers of Photopolymer Compositions. **2023**, 15, 131 1

117	Fabrication and characterization of LDPE and HDPE filaments for 3D printing. <b>2018</b> , 3, 299-312	1
116	Sustainability of 3D printing in industry 4.0. <b>2023</b> , 229-251	0
115	An overview of the advances in the 3D printing technology. <b>2023</b> , 1-37	0
114	Role of 3D printing in biomechanics. <b>2023</b> , 1-33	0
113	Manufacturing Technologies of Polymer Composites A Review. <b>2023</b> , 15, 712	1
112	Effect of induced plastic strain on the porosity of PA12 printed through selective laser sintering studied by X-ray computed micro-tomography.	0
111	The Role of 3D Printing in the Development of a Catalytic System for the Heterogeneous Fenton Process. <b>2023</b> , 15, 580	0
110	Open challenges and future opportunities in fused deposition modeling of composite materials. <b>2023</b> , 289-329	0
109	Recent trends in polymeric composites and blends for three-dimensional printing and bioprinting. <b>2023</b> , 131-157	0
108	Dynamic fracture behaviour of additively manufactured composite materials. <b>2023</b> , 441-488	0
107	Mussel-Inspired Electro-oxidation-Modified Three-Dimensional Printed Carriers for a Versatile Enzyme Immobilization Approach. <b>2023</b> , 11, 1375-1385	0
106	Chemistry in light-induced 3D printing. <b>2023</b> , 9,	0
105	Lignin-Based Materials for Additive Manufacturing: Chemistry, Processing, Structures, Properties, and Applications. 2206055	1
104	Complex 3D-Printed Mechanochromic Materials with Iridescent Structural Colors Based on CoreShell Particles. 2213099	0
103	Plant polysaccharides in pharmaceutical 3D printing. <b>2023</b> , 469-484	0
102	Introduction to Fused deposition modeling of composite materials □ <b>2023</b> , 1-7	0
101	Rapid prototyping. <b>2023</b> , 315-341	0
100	Low-temperature 3D printing and curing process of continuous fiber-reinforced thermosetting polymer composites.	0

- 99 Fused deposition modeling of composite materials at a glance [Supplementary tables. **2023**, 329-445 ○
- 98 Advances in 3D Printing Technology for Tissue Engineering. **2023**, 181-206 ○
- 97 3D Printing CeramicsMaterials for Direct Extrusion Process. **2023**, 6, 364-385 ○
- 96 Recent advances in 3D printed electrode materials for electrochemical energy storage devices. **2023**, ○
- 95 Fabrication of bio-inspired anisotropic structures from biopolymers for biomedical applications: A review. **2023**, 308, 120669 ○
- 94 Geometry and mesh size control the EMI shielding in 3D printed conducting shape memory PU structures. **2023**, 11, 4474-4485 1
- 93 Development and Evaluation of Recycled Polypropylene and Bean Pod Powder Composite Biomaterial for Fused Filament Fabrication. **2023**, 13, 31-48 ○
- 92 Performance Simulation and Fused Filament Fabrication Modeling of the Wave-Absorbing Structure of Conductive Multi-Walled Carbon Nanotube/Polyamide 12 Composite. **2023**, 15, 804 ○
- 91 Application of 3D Printing Technology in Sensor Development for Water Quality Monitoring. **2023**, 23, 2366 ○
- 90 Additive manufacturing of silicone composite structures with continuous carbon fiber reinforcement. ○
- 89 Design and mathematical modeling of polymeric phases to obtain controlled microporosity materials by 3D printing. ○
- 88 Copper Composites and Laser Sintering: Novel Hybridization Method for 3D Printed Electronics. ○
- 87 The potential of adopting natural fibers reinforcements for fused deposition modeling: Characterization and implications. **2023**, 9, e15023 ○
- 86 Concurrent multi-material and multi-scale design optimization of fiber-reinforced composite material and structures for minimum structural compliance. **2023**, 311, 116796 ○
- 85 Experimental and simulation investigations on the morphology of aerosol jet printed polymer traces under in-situ UV and thermal curing conditions. **2023**, 69, 103515 ○
- 84 Achieving polycrystalline transformation and microstructural segregation reduction of nickel-based single crystal super-alloys by ultrasonic pulse arc welding. **2023**, 24, 2200-2212 ○
- 83 Abrasion-resistant superhydrophilic objects with anisotropic water transport capacities prepared by a selective laser sintering 3D printing strategy. **2023**, 464, 142778 ○
- 82 Implementation of 3D printing technologies to electrochemical and optical biosensors developed for biomedical and pharmaceutical analysis. **2023**, 230, 115385 ○

- 81 UV-cured polymer aided phase change thermal energy storage: Preparation, mechanism and prospects. **2023**, 64, 107066 ○
- 80 Numerical simulation and printability analysis of fused deposition modeling with dual-temperature control. **2023**, 6, 174-188 ○
- 79 Recyclable 3D-Printed Aqueous Lithium-Ion Battery. ○
- 78 Mechanical properties of 3D printed concrete with coarse aggregates and polypropylene fiber in the air and underwater environment. **2023**, 378, 131184 ○
- 77 Evaluation of characterisation efficiency of natural fibre-reinforced polylactic acid biocomposites for 3D printing applications. **2023**, 36, e00620 ○
- 76 Morphing characteristics and damage analysis of 3D printing variable stiffness bistable laminates based on continuous fiber thermosetting composites. **2023**, 315, 117026 ○
- 75 Thermally expanded graphite polyetherimide composite with superior electrical and thermal conductivity. **2023**, 298, 127404 ○
- 74 Fabrication of polycaprolactone/calcium phosphates hybrid scaffolds impregnated with plant extracts using 3D printing for potential bone regeneration. **2023**, 9, e13176 ○
- 73 Shape and topology optimization method for fiber placement design of CFRP plate and shell structures. **2023**, 309, 116729 ○
- 72 Integrated printing of high-strength, high-shape-retaining polyimide and its composite gradient structures for enhanced tribological properties. **2023**, 65, 103440 ○
- 71 Design and mechanical evaluation of additively-manufactured graded TPMS lattices with biodegradable polymer composites. **2023**, 23, 2868-2880 ○
- 70 Construction 3D printing: a critical review and future research directions. ○
- 69 Fused Filament Fabrication of Thermal-Shock-Resistant Fine-Grained Refractories for Steel-Casting Applications. **2023**, 6, 475-491 ○
- 68 Advances in Printing and Electronics: From Engagement to Commitment. **2023**, 33, ○
- 67 An investigation of preparation of continuous carbon fiber reinforced PLA prepreg filament. **2023**, 39, 101530 ○
- 66 Multiphysics multi-scale computational framework for linking process-structure-property relationships in metal additive manufacturing: a critical review. 1-67 ○
- 65 Development in Materials for Manufacturing Electronics With 3D Printing. **2023**, 630-642 ○
- 64 Additive Manufacturing: A Brief Introduction. **2022**, 1-23 ○

- 63 Glimpses of 3D Printing in the 21st Century. **2023**, 1-8 ○
- 62 An Overview of 3D-Printed Smart Polymers and Composites. **2023**, 130-148 ○
- 61 Properties and Applications of Natural Fiber-Reinforced 3D-Printed Polymer Composites. **2023**, 31-52 ○
- 60 The Importance of Polymers in Medicine and Their FTIR and Raman Spectroscopic Investigations. **2023**, 170-187 ○
- 59 Advance Biodegradable Polymer Composite Materials for Biomedical Additive Manufacturing Applications. **2023**, 107-129 ○
- 58 Additive manufacturing of fiber-reinforced polymer composites: A technical review and status of design methodologies. **2023**, 255, 110603 ○
- 57 Investigation of fused deposition modeling parameters on mechanical properties and characterization of ABS/carbon fiber composites. 095440892311560 ○
- 56 Achieving toughening of PEEK via preparation of thermally stable and crystalline PEKEKK nanospheres by microemulsion method. **2023**, 270, 125809 ○
- 55 Hybrid 3D printing for highly efficient nanoparticle micropatterning. **2023**, 11, 4333-4341 ○
- 54 The theoretical adhesion of Staphylococcus aureus and Pseudomonas aeruginosa as nosocomial pathogens on 3D printing filament materials. ○
- 53 Research status and prospect of machine learning in construction 3D printing. **2023**, 18, e01952 ○
- 52 A holistic approach of reconfigurable mould based fused deposition modelling for producing overhanging parts. 1-15 ○
- 51 Optimization of 3D Printed Rapid Prototype Deep Drawing Tools for Automotive and Railway Sheet Material Testing. **2023**, 8, 43 3
- 50 Heterogeneous Advanced Oxidation Processes (HE-AOPs) for the Removal of Pharmaceutically Active Compounds Pros and Cons. **2023**, 211-239 ○
- 49 3D printing of plant fiber reinforced polymer composites (PFRCE): an insight into methods, challenges and opportunities. **2023**, 62, 816-838 ○
- 48 Effect of Short Glass Fiber Addition on Flexural and Impact Behavior of 3D Printed Polymer Composites. **2023**, 8, 9212-9220 ○
- 47 Vapour polishing of fused deposition modelling (FDM) parts: a critical review of different techniques, and subsequent surface finish and mechanical properties of the post-processed 3D-printed parts. ○
- 46 Recent developments in organ-on-a-chip technology for cardiovascular disease research. ○

- 45 3D Printed Antennas for 5G Communication: Current Progress and Future Challenges. **2023**, 2, 100065 ○
- 44 Using micro-XRF to characterize chloride ingress through cold joints in 3D printed concrete. **2023**, 56, ○
- 43 Investigation of LCD 3D Printing of Carbon Fiber Composites by Utilising Central Composite Design. **2023**, 7, 58 ○
- 42 Influencia del tipo de fibras y del tratamiento superficial de las fibras en las propiedades físicas y mecánicas de compuestos reforzados con fibras vegetales. **2023**, 28, e18852 ○
- 41 Recycled, Bio-Based, and Blended Composite Materials for 3D Printing Filament: Pros and Cons: A Review. **2023**, 14, 148-185 ○
- 40 A Mechanical Performance Study of Dual Cured Thermoset Resin Systems 3D-Printed with Continuous Carbon Fiber Reinforcement. **2023**, 15, 1384 ○
- 39 A comprehensive methodology to support decision-making for additive manufacturing of short carbon-fiber reinforced polyamide 12 from energy, cost and mechanical perspectives. ○
- 38 Laser-Induced Cavitation-Assisted True 3D Nano-Sculpturing of Hard Materials. 2207968 ○
- 37 Polymer/Graphene Nanocomposites via 3D and 4D Printing: Design and Technical Potential. **2023**, 11, 868 ○
- 36 Review of Rheology in Cement-Based Materials and Its Application to 3D Printing Using Concrete. **2023**, 51, 1-8 ○
- 35 Self-healing Polymer Substrates. **2023**, 107-127 ○
- 34 Characterizing the Effect of Filament Moisture on Tensile Properties and Morphology of Fused Deposition Modeled Polylactic Acid/Polybutylene Succinate Parts. ○
- 33 Modeling the strength of laminated parts made by fused filament fabrication additive manufacturing. 095440622311614 ○
- 32 The Mindereroo-Monaco Commission on Plastics and Human Health. **2023**, 89, ○
- 31 Investigation of the In Vitro and In Vivo Biocompatibility of a Three-Dimensional Printed Thermoplastic Polyurethane/Polylactic Acid Blend for the Development of Tracheal Scaffolds. **2023**, 10, 394 ○
- 30 Two-Photon Polymerization Lithography for Optics and Photonics: Fundamentals, Materials, Technologies, and Applications. 2214211 1
- 29 Effects of fabrication parameters on the mechanical properties of short basalt-fiber-reinforced thermoplastic composites for fused deposition modeling-based 3D printing. ○
- 28 A review on optimized FDM 3D printed Wood/PLA bio composite material characteristics. **2023**, ○

- 27 Copper/Strontium hydroxyapatite/chitosan/polyvinyl alcohol/gelatin electrospun composite and its biological studies for orthopedic applications. ○
- 26 Examination of Low-Cyclic Fatigue Tests and Poisson's Ratio Depending on the Different Infill Density of Polylactide (PLA) Produced by the Fused Deposition Modeling Method. **2023**, 15, 1651 ○
- 25 Application of Structural Adhesives in Composite Connections. **2023**, 375-396 ○
- 24 Thermoplastic polyurethane for three-dimensional printing applications: A review. ○
- 23 Modification of 3D Printable Polymer Filaments for Radiation Shielding Applications. **2023**, 15, 1700 ○
- 22 Biofunctionalized 3D printed structures for biomedical applications: A critical review of recent advances and future prospects. **2023**, 137, 101124 ○
- 21 Application of 3D printing technology for medical implants: a state-of-the-art review. 1-16 ○
- 20 Comprehensive study on additive manufacturing process methods, cost comparison, challenges and industrial applications. **2022**, 17, 31 ○
- 19 Novel Additive Manufactured Multielectrode Electrochemical Cell with Honeycomb Inspired Design for the Detection of Methyl Parathion in Honey Samples. ○
- 18 Design and advanced manufacturing of electromagnetic interference shielding materials. **2023**, ○
- 17 High-Pressure FDM 3D Printing in Nitrogen [Inert Gas] and Improved Mechanical Performance of Printed Components. **2023**, 7, 153 ○
- 16 Systematic study of FFF materials for digitalizing chemical reactors with 3D printing: superior performance of carbon-filled polyamide. ○
- 15 Durability of Joule effect of 3D printed carbon black/polylactic acid: Electrical cyclic tests and analytical modelling. **2023**, 173, 107677 ○
- 14 Synthesis and properties of polyetheretherketone for applications in additive technologies. **2023**, 72, 546-552 ○
- 13 Fabrication of Architected Biomaterials by Multilayer Co-Extrusion and Additive Manufacturing. ○
- 12 Hybrid manufacturing of mixed-material bilayer parts via injection molding and material extrusion three-dimensional printing. ○
- 11 High Thermal Conductivity Polymer Composites Fabrication through Conventional and 3D Printing Processes: State-of-the-Art and Future Trends. ○
- 10 The Mechanical Properties of Thin-Walled Specimens Printed from a Bronze-Filled PLA-Based Composite Filament Using Fused Deposition Modelling. **2023**, 16, 3241 ○

- 9 Investigating inter/intralayer interface-triggered toughening mechanisms of three-dimensional printed polylactic acid using double-notch four-point-bending method. **2023**, 109277 ○
- 8 The overview of analytical methods for studying of fossil natural resins. 1-23 ○
- 7 A comprehensive review on natural fillers reinforced polymer composites using fused deposition modeling. ○
- 6 Fundamentals of Crystalline Evolution and Properties of Carbon Nanotube-Reinforced Polyether Ether Ketone Nanocomposites in Fused Filament Fabrication. **2023**, 15, 22506-22523 ○
- 5 Investigating the compression and fretting wear behaviour of FDM printed PLA samples for bone fixation. 1-17 ○
- 4 Cellulose nanocrystal-assisted processing of nanocomposite filaments for fused filament fabrication. **2023**, 278, 125980 ○
- 3 Compressive characterisation of 3D printed composite materials using continuous fibre fabrication. **2023**, ○
- 2 ANPMOORA-Based Approach for Selection of FDM 3D Printer Filament. **2023**, 29-42 ○
- 1 Investigation into tensile behavior of 3D printed nylon-based low and high-volume fraction carbon fiber composite. ○