CITATION REPORT List of articles citing

FDM process parameters influence over the mechanical properties of polymer specimens: A review

DOI: 10.1016/j.polymertesting.2018.05.020 Polymer Testing, 2018, 69, 157-166.

Source: https://exaly.com/paper-pdf/71048013/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
483	Democratising the design of 3D printed functional components through a hybrid virtual-physical design methodology. 2018 , 78, 394-399		6
482	Mechanical properties of ULTEM 9085 material processed by fused deposition modeling. <i>Polymer Testing</i> , 2018 , 72, 335-347	4.5	38
481	3D Printing of Porous Scaffolds with Controlled Porosity and Pore Size Values. 2018 , 11,		47
480	Polylactide (PLA) Filaments a Biobased Solution for Additive Manufacturing: Correlating Rheology and Thermomechanical Properties with Printing Quality. 2018 , 11,		88
479	Thermo-mechanical study of PLA for FFF process. 2019 ,		
478	A Systematic Survey of FDM Process Parameter Optimization and Their Influence on Part Characteristics. 2019 , 3, 64		113
477	Optimization of Accelerator Mixing Ratio for EPDM Rubber Grommet to Improve Mountability Using Mixture Design. 2019 , 9, 2640		3
476	Printability and Tensile Performance of 3D Printed Polyethylene Terephthalate Glycol Using Fused Deposition Modelling. 2019 , 11,		22
475	Recycled Polymer Feedstocks for Material Extrusion Additive Manufacturing. 2019 , 37-51		12
474	3D-Printed shoe last for bespoke shoe manufacturing. 2019 , 290, 04001		6
473	On printability of PLA-PEKK-HAp-CS based functional prototypes with FDM: thermo-mechanical investigations. 2019 , 6, 115338		3
472	Microstructure and Mechanical Performance of 3D Printed Wood-PLA/PHA Using Fused Deposition Modelling: Effect of Printing Temperature. 2019 , 11,		31
471	Embedding Ultra-High-Molecular-Weight Polyethylene Fibers in 3D-Printed Polylactic Acid (PLA) Parts. 2019 , 11,		6
470	Three-dimensional printing in adult cardiovascular medicine for surgical and transcatheter procedural planning, teaching and technological innovation. 2020 , 30, 203-214		7
469	Development and Mechanical Properties of Basalt Fiber-Reinforced Acrylonitrile Butadiene Styrene for In-Space Manufacturing Applications. 2019 , 3, 89		6
468	Strength Increasing Additive Manufacturing Fused Filament Fabrication Technology, Based on Spiral Toolpath Material Deposition. 2019 , 7, 57		10
467	Fully FDM 3D Printed Flexible Capacitive and Resistive Transducers. 2019 ,		1

466	Thermal mechanical characterization of copolyester for additive manufacturing using FDM. 2019 , 10, A9	5
465	Application of Linear Optimization on Parameters of 3D FDM Print. 2019 , 26,	
464	Effect of support on printed properties in fused deposition modelling processes. 2019 , 14, 308-315	52
463	Microstructure, Thermal and Mechanical Behavior of 3D Printed Acrylonitrile Styrene Acrylate. 2019 , 304, 1800793	15
462	3D-printed monolithic SiCN ceramic microreactors from a photocurable preceramic resin for the high temperature ammonia cracking process. 2019 , 4, 1393-1399	21
461	Mechanical properties of PLA-graphene filament for FDM 3D printing. 2019 , 103, 2423-2443	67
460	A numerical and experimental study of the compression uniaxial properties of PLA manufactured with FDM technology based on product specifications. 2019 , 103, 1893-1909	24
459	Analysis of the Material Behavior of 3D Printed Laminates Via FFF. 2019 , 59, 871-881	24
458	Recent Developments in Fused Deposition Modeling-Based 3D Printing of Polymers and Their Composites. 2019 , 59, 589-624	114
457	The influence of slicing parameters on the multi-material adhesion mechanisms of FDM printed parts: an exploratory study. 2019 , 14, 316-332	25
456	Magnesium Filled Polylactic Acid (PLA) Material for Filament Based 3D Printing. 2019, 12,	37
455	Flexural Properties and Fracture Behavior of CF/PEEK in Orthogonal Building Orientation by FDM: Microstructure and Mechanism. 2019 , 11,	46
454	Towards the democratisation of design: the implementation of metaheuristic search strategies to enable the auto-assignment of manufacturing parameters for FDM. 2019 , 38, 383-390	1
453	Hybrid Manufacturing and Experimental Testing of Glass Fiber Enhanced Thermoplastic Composites. 2019 , 3, 96	10
452	A comprehensive study of PLA material relationships for fused filament fabricated part performances. 2019 ,	
45 ¹	Parametric Effects of Fused Deposition Modelling on the Mechanical Properties of Polylactide Composites: A Review. 2019 , 1378, 022060	7
450	The influence of additive manufacturing parameters on the structural and mechanical properties of acrylonitrile butadiene styrene (ABS) parts produced by fused filament fabrication. 2019 , 682, 012013	
449	Hardware Factors Influencing Strength of Parts Obtained by Fused Filament Fabrication. 2019 , 11,	10

448	Influence of Print Orientation on Surface Roughness in Fused Deposition Modeling (FDM) Processes. 2019 , 12,	30
447	Performance Analysis of Colored PLA Products with a Fused Filament Fabrication Process. 2019 , 11,	8
446	Influence of infill properties on flexural rigidity of 3D-printed structural members. 2019 , 14, 148-159	29
445	The impact of defects on tensile properties of 3D printed parts manufactured by fused filament fabrication. 2019 , 18, 140-148	37
444	3D Printing of Polyether-Ether-Ketone Functional Prototypes for Engineering Applications. 2020 , 207-214	2
443	A critical review on 3D printed continuous fiber-reinforced composites: History, mechanism, materials and properties. 2020 , 232, 111476	145
442	Controlling toughness and strength of FDM 3D-printed PLA components through the raster layup. 2020 , 180, 107562	60
441	Fused Deposition modeling process parameters optimization and effect on mechanical properties and part quality: Review and reflection on present research. 2020 , 21, 1659-1672	63
440	On the strain-life fatigue parameters of additive manufactured plastic materials through fused filament fabrication process. 2020 , 32, 100973	14
439	3D printing of bio-based polycarbonate and its potential applications in ecofriendly indoor manufacturing. 2020 , 31, 100974	17
438	Elastic Asymmetry of PLA Material in FDM-Printed Parts: Considerations Concerning Experimental Characterisation for Use in Numerical Simulations. 2019 , 13,	20
437	Considerations on the Applicability of Test Methods for Mechanical Characterization of Materials Manufactured by FDM. 2019 , 13,	25
436	Investigation on tensile strength and failure modes of FDM printed part using in-house fabricated PLA filament. 2020 , 1-22	8
435	Optimization of FDM process parameters for tensile properties of polylactic acid specimens using Taguchi design of experiment method. 2020 , 089270572096456	19
434	Experimental and Numerical Analysis for the Mechanical Characterization of PETG Polymers Manufactured with FDM Technology under Pure Uniaxial Compression Stress States for Architectural Applications. 2020 , 12,	15
433	Investigation of processing parameters on tensile performance for FDM-printed carbon fiber reinforced polyamide 6 composites. 2020 , 22, 100478	29
432	3D printing goes greener: Study of the properties of post-consumer recycled polymers for the manufacturing of engineering components. 2020 , 118, 426-434	17
431	Optimization Methodology for Additive Manufacturing of Customized Parts by Fused Deposition Modeling (FDM). Application to a Shoe Heel. 2020 , 12,	7

(2020-2020)

430	Open source high-temperature RepRap for 3-D printing heat-sterilizable PPE and other applications. 2020 , 8, e00130	15
429	Tensile and Compressive Behavior in the Experimental Tests for PLA Specimens Produced via Fused Deposition Modelling Technique. 2020 , 4, 140	15
428	A short survey of sustainable material extrusion additive manufacturing. 2020, 1-10	17
427	A comprehensive evaluation of flexible FDM/FFF 3D printing filament as a potential material in medical application. 2020 , 138, 109958	12
426	POM/EVA Blends with Future Utility in Fused Deposition Modeling. 2020, 13,	2
425	Closed-form orthotropic constitutive model for aligned square array mesostructure. 2020 , 36, 101463	O
424	3D Digital Manufacturing via Synchronous 5-Axes Printing for Strengthening Printing Parts. 2020 , 8, 126083-	12 6 091
423	Identification of Optimal Process Parameter Settings Based on Manufacturing Performance for Fused Filament Fabrication of CFR-PEEK. 2020 , 10, 4630	3
422	3D printing of glass by additive manufacturing techniques: a review. 2020 , 14, 263	13
421	Discrete-Event Simulation Thermal Model for Extrusion-Based Additive Manufacturing of PLA and ABS. 2020 , 13,	6
420	The Effects of Combined Infill Patterns on Mechanical Properties in FDM Process. 2020, 12,	21
419	Recent Progress on Polymer Materials for Additive Manufacturing. 2020 , 30, 2003062	162
418	3D printing: An appealing route for customized drug delivery systems. 2020 , 588, 119732	40
417	Effects of auxiliary heat on warpage and mechanical properties in carbon fiber/ABS composite manufactured by fused deposition modeling. 2020 , 195, 108978	20
416	Generalized models for unidirectional anisotropic properties of 3D printed polymers. 2020 , 26, 1453-1462	2
415	Fused deposition modelling: a review. 2020 , 26, 176-201	87
414	Correlation of tribo-mechanical properties of internal geometry structures of fused filament fabrication 3D-printed acrylonitrile butadiene styrene. 2020 , 72, 1259-1265	2
413	Tribological Behaviour of Additively Manufactured Fiber-Reinforced Thermoplastic Composites in Various Environments. 2020 , 12,	2

412	3D-Printed Wood-Fiber Reinforced Architected Cellular Composites. 2020 , 22, 2000565	9
411	Experimental study on tensile properties of 3D printed flexible kirigami specimens. 2020 , 32, 101100	5
410	3D-Printed Carbon Fiber Reinforced Polymer Composites: A Systematic Review. 2020 , 4, 98	43
409	Towards the democratisation of design: a generalised capability model for FDM. 2020 , 13, 79	1
408	Multi material 3D printing of PLA-PA6/TiO2 polymeric matrix: Flexural, wear and morphological properties. 2020 , 089270572095319	16
407	3D Printing and Solvent Dissolution Recycling of Polylactide-Lunar Regolith Composites by Material Extrusion Approach. 2020 , 12,	3
406	4D Printing: A Review on Recent Progresses. 2020 , 11,	43
405	Integration of Additive Manufacturing, Parametric Design, and Optimization of Parts Obtained by Fused Deposition Modeling (FDM). A Methodological Approach. 2020 , 12,	6
404	Review of Tailoring Methods for Joints with Additively Manufactured Adherends and Adhesives. 2020 , 13,	14
403	Influence of Solid Lubricants on the Tribological Performance of Photocurable Resins for Vat Photopolymerization. 2020 , 8, 104	2
402	The Study of Physico-Mechanical Properties of Polylactide Composites with Different Level of Infill Produced by the FDM Method. 2020 , 12,	8
401	On the Heuristic Procedure to Determine Processing Parameters in Additive Manufacturing Based on Materials Extrusion. 2020 , 12,	4
400	Effects of Environmental Temperature and Humidity on the Geometry and Strength of Polycarbonate Specimens Prepared by Fused Filament Fabrication. 2020 , 13,	8
399	A Comparative Analysis of Different Rapid Prototyping Techniques for Making Intricately Shaped Structure. 2020 , 05, 393-407	3
398	Enhancing interlayer bonding strength of FDM 3D printing technology by diode laser-assisted system. 2020 , 108, 603-611	9
397	3D printed conductive thermoplastic polyurethane/carbon nanotube composites for capacitive and piezoresistive sensing in soft pneumatic actuators. 2020 , 34, 101281	26
396	Role of infill parameters on the mechanical performance and weight reduction of PEI Ultem processed by FFF. 2020 , 193, 108810	14
395	3D Printing of a Dual-Curing Resin with Cationic Curable Vegetable Oil. 2020 , 59, 11381-11388	9

(2020-2020)

394	Experimental analysis of the tensile property of FFF-printed elastomers. <i>Polymer Testing</i> , 2020 , 90, 10	06684.75	9
393	Detecting first layer bond quality during FDM 3D printing using a discrete wavelet energy approach. 2020 , 48, 718-724		4
392	Strain and damage sensing in additively manufactured CB/ABS polymer composites. <i>Polymer Testing</i> , 2020 , 90, 106688	4.5	10
391	Dimensional considerations on the mechanical properties of 3D printed polymer parts. <i>Polymer Testing</i> , 2020 , 90, 106656	4.5	14
390	Review on process model, structure-property relationship of composites and future needs in fused filament fabrication. 2020 , 39, 758-789		9
389	Effects of fused deposition modeling process parameters on tensile, dynamic mechanical properties of 3D printed polylactic acid materials. <i>Polymer Testing</i> , 2020 , 86, 106483	4.5	67
388	Experimental investigation and optimization of FDM process parameters for material and mechanical strength. 2020 , 26, 1995-1999		17
387	Mechanical investigation and optimization of parameter selection for Nylon material processed by FDM. 2020 ,		16
386	Experimental characterization of 3D printed thermoplastic plates subjected to low velocity impact. 2020 , 107, 1659-1669		3
385	Investigating the Mechanical Properties of 3D Printed Components. 2020,		9
385	Investigating the Mechanical Properties of 3D Printed Components. 2020, Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801		9
	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material		
384	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801 Eight Weeks LaterThe Unprecedented Rise of 3D Printing during the COVID-19 PandemicA Case Study, Lessons Learned, and Implications on the Future of Global Decentralized		2
384	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801 Eight Weeks LaterThe Unprecedented Rise of 3D Printing during the COVID-19 PandemicA Case Study, Lessons Learned, and Implications on the Future of Global Decentralized Manufacturing. 2020, 10, 4135 A hybrid physics-based and data-driven approach for characterizing porosity variation and filament		2 13
384 383 382	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801 Eight Weeks LaterThe Unprecedented Rise of 3D Printing during the COVID-19 PandemicA Case Study, Lessons Learned, and Implications on the Future of Global Decentralized Manufacturing. 2020, 10, 4135 A hybrid physics-based and data-driven approach for characterizing porosity variation and filament bonding in extrusion-based additive manufacturing. 2020, 36, 101399 Influence of printing parameters and filament quality on structure and properties of polymer		2 13 5
384 383 382 381	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801 Eight Weeks Later he Unprecedented Rise of 3D Printing during the COVID-19 Pandemic (A. Case Study, Lessons Learned, and Implications on the Future of Global Decentralized Manufacturing. 2020, 10, 4135 A hybrid physics-based and data-driven approach for characterizing porosity variation and filament bonding in extrusion-based additive manufacturing. 2020, 36, 101399 Influence of printing parameters and filament quality on structure and properties of polymer composite components used in the fields of automotive. 2020, 303-330		21357
384 383 382 381 380	Theoretical and Computational Analysis on the Melt Flow Behavior of Polylactic Acid in Material Extrusion Additive Manufacturing under Vibration Field. 2020, 10, 3801 Eight Weeks Later The Unprecedented Rise of 3D Printing during the COVID-19 Pandemic Case Study, Lessons Learned, and Implications on the Future of Global Decentralized Manufacturing. 2020, 10, 4135 A hybrid physics-based and data-driven approach for characterizing porosity variation and filament bonding in extrusion-based additive manufacturing. 2020, 36, 101399 Influence of printing parameters and filament quality on structure and properties of polymer composite components used in the fields of automotive. 2020, 303-330 . 2020, 8, 125056-125075 Influence of raster orientation on the determination of fracture properties of polypropylene thin	4.5	2 13 5 7

376	Recent developments in polymers/polymer nanocomposites for additive manufacturing. 2020 , 111, 100638	118
375	Static and Dynamic Mechanical Properties of 3D Printed ABS as a Function of Raster Angle. 2020 , 13,	27
374	Mechanical Characterization of the Plastic Material GF-PA6 Manufactured Using FDM Technology for a Compression Uniaxial Stress Field via an Experimental and Numerical Analysis. 2020 , 12,	14
373	Mechanical characterization of biocompatible PEEK by FDM. 2020 , 56, 28-42	25
372	Highly dense cellulose acetate specimens with superior mechanical properties produced by fused filament fabrication. 2020 , 194, 122388	4
371	Novel Synthesis of Core-Shell Biomaterials from Polymeric Filaments with a Bioceramic Coating for Biomedical Applications. 2020 , 10, 283	9
370	Prediction of tensile strength in FDM printed ABS parts using response surface methodology (RSM). 2020 , 27, 1827-1832	23
369	Evaluating mechanical strength of three dimensional printed PLA parts by free form fabrication. 2020 , 46, 9498-9498	1
368	Use of Data Mining Techniques for the Prediction of Surface Roughness of Printed Parts in Polylactic Acid (PLA) by Fused Deposition Modeling (FDM): A Practical Application in Frame Glasses Manufacturing. 2020 , 12,	4
367	Effects of FDM-3D printing parameters on mechanical properties and microstructure of CF/PEEK and GF/PEEK. 2021 , 34, 236-246	33
366	Influence of fused filament fabrication parameters on tensile properties of polylactide/layered silicate nanocomposite using response surface methodology. 2021 , 138, 50174	2
365	Application of 3D printing in sheet metal forming. 2021 , 38, 1579-1583	3
364	Effect of processing parameters on flexural properties of 3D-printed polyetherketoneketone using fused deposition modeling. 2021 , 61, 465-476	2
363	Functional 3D printing: Approaches and bioapplications. 2021 , 175, 112849	32
362	Study on properties of polylactic acid/lemongrass fiber biocomposites prepared by fused deposition modeling. 2021 , 42, 973-986	11
361	Biopolymer blends for mechanical property gradient 3D printed parts. 2021 , 15, 137-152	9
360	Effect of molecular weight on mechanical properties and microstructure of 3D printed poly(ether ether ketone). 2021 , 70, 1065	5
359	In situ monitoring for fused filament fabrication process: A review. 2021 , 38, 101749	11

358	A study on additive manufacturing build parameters as bonded joint design factors. 2021 , 1-30	4
357	Strength and Surface Characteristics of FDM-Based 3D Printed PLA Parts for Multiple Infill Design Patterns. 2021 , 102, 197-207	13
356	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. 2021 , 143, 106007	55
355	Effect of fused deposition modeling process parameters on the mechanical properties of recycled polyethylene terephthalate parts. 2021 , 138, 49709	12
354	IZOD impact properties of full-density fused deposition modeling polymer materials with respect to raster angle and print orientation. 2021 , 235, 1891-1908	10
353	Mechanical Properties of 3D-Printed Elastomers Produced by Fused Deposition Modeling. 2021 , 107-130	O
352	Re-engineering Infill Density System for 3D Printing. 2021 , 293-298	
351	Processing of bio-based polymers. 2021 , 151-189	O
350	3D Printed Personalized Orthotic Inserts Using Photogrammetry and FDM Technology. 2021 , 349-361	О
349	Introduction to Fused Deposition Modeling Based 3D Printing Process. 2021 , 1-21	Ο
348	Multi-Objective Optimization for FDM Process Parameters with Evolutionary Algorithms. 2021 , 419-444	О
347	A review on the fused deposition modeling (FDM) 3D printing: Filament processing, materials, and printing parameters. 2021 , 11, 639-649	39
346	Design and Manufacture of 3D-Printed Batteries. 2021 , 5, 89-114	30
345	A State-of-the-Art Review on Fused Deposition Modelling Process. 2021 , 855-864	2
344	The viscoelastic mechanical property and constitutive models of 3D printed photopolymer. 2021 , 27, 346-354	2
343	Optimization of FDM for Fabrication of PLA-HAp-CS Based Functional Prototypes/Scaffolds Using Matrix Co-Relation. 2021 ,	
342	Experimental characterization of mechanical properties and microstructure study of polycarbonate (PC) reinforced acrylonitrile-butadiene-styrene (ABS) composite with varying PC loadings. 2021 , 8, 18-28	2
341	Effects of Processing Parameters on the Characteristics of Additively Manufactured Polymeric Parts. 2021 ,	

340	The influence of 3D printing process parameters on the mechanical performance of PLA polymer and its correlation with hardness. 2021 , 54, 244-249	3
339	Charpy impact energy absorption of 3D printed continuous Kevlar reinforced composites. 2021 , 55, 1705-17	713 ₇
338	Effect of multi-infill patterns on tensile behavior of FDM printed parts. 2021, 43, 1	7
337	A Preliminary Study for Identification of Additive Manufactured Objects with Transmitted Images. 2021 , 439-458	1
336	Investigating Mechanical Properties of 3D-Printed Polyethylene Terephthalate Glycol Material Under Fused Deposition Modeling. 2021 , 102, 375-387	4
335	Optimization of fused deposition modeling (FDM) process parameters for flexural strength. 2021 , 44, 3012-3016	O
334	Mechanical and FEA-Assisted Characterization of Fused Filament Fabricated Triply Periodic Minimal Surface Structures. 2021 , 5, 58	11
333	Different infill geometry influence on mechanical properties of FDM produced PLA. 2021 , 1038, 012071	2
332	A review of factors that influence the fracture toughness of extrusion-based additively manufactured polymer and polymer composites. 2021 , 38, 101830	4
331	Enhancing Mechanical Properties of Polymer 3D Printed Parts. 2021 , 13,	7
330	The creation of a neural network based capability profile to enable generative design and the manufacture of functional FDM parts. 2021 , 113, 2951-2968	O
329	An overview of fused deposition modelling (FDM): research, development and process optimisation. 2021 , 27, 562-582	18
328	A territorial round-robin experiment for the evaluation of mechanical properties of FDM PLA produced by distributed facilities. 2021 , 1038, 012069	1
327	Influence of Geometric and Manufacturing Parameters on the Compressive Behavior of 3D Printed Polymer Lattice Structures. 2021 , 14,	6
326	Fused filament fabrication of scaffolds for tissue engineering; how realistic is shape-memory? A review. 2021 , 217, 123440	3
325	Automated draping analysis of 3D printed flexible isogrid structures for textile applications. 004051752110	00625
324	Additive Manufacturing of Wood Flour/PHA Composites Using Micro-Screw Extrusion: Effect of Device and Process Parameters on Performance. 2021 , 13,	2
323	Material selection for a CubeSat structural bus complying with debris mitigation. 2021 , 67, 1468-1476	4

(2021-2021)

322	Experimental investigation on mechanical characterization of 3D printed PLA produced by fused deposition modeling (FDM). 2021 , 8, 035304	10
321	Mechanical and electrical properties of three-dimensional printed polylactic acid@raphene@arbon nanofiber composites. 2021 , 42, 3231-3242	8
320	Multidisciplinary topology optimization incorporating process-structure-property-performance relationship of additive manufacturing. 2021 , 63, 2141-2157	3
319	Enhancing the mechanical properties of SCF/PEEK composites in FDM via process-parameter optimization. 095400832110036	1
318	Experimental analysis of the mechanical characteristics of launch vehicle parts manufactured by FDM additive technologies. 2021 , 2021, 92-100	5
317	Multi-material 3D printed PLA/PA6-TiO2 composite matrix: rheological, thermal, tensile, morphological and 4D capabilities. 1-19	3
316	A comparative study of the tensile properties of compression molded and 3D printed PLA specimens in dry and water saturated conditions. 2021 , 35, 1977-1985	3
315	Green Composites Based on PLA and Agricultural or Marine Waste Prepared by FDM. 2021 , 13,	14
314	Gaining a better understanding of the extrusion process in fused filament fabrication 3D printing: a review. 2021 , 114, 1279-1291	21
313	Structure-function assessment of 3D-printed porous scaffolds by a low-cost/open source fused filament fabrication printer. 2021 , 123, 111945	O
312	Effect of infill parameters on material sustainability and mechanical properties in fused deposition modelling process: a case study. 1	2
311	On shear resistance of almond skin reinforced PLA composite matrix-based scaffold using cancellous screw. 1-24	2
310	Designing 3D printable polypropylene: Material and process optimisation through rheology. 2021 , 40, 101944	8
309	Investigation of the effect of FDM process parameters on mechanical properties of 3D printed PA12 samples using Taguchi method. 089270572110064	13
308	Direct 3D printing of multi-level voxel models. 2021 , 40, 101929	1
307	A multiscale analysis approach to predict mechanical properties in fused deposition modeling parts. 2021 , 115, 2269-2279	2
306	Optimisation of Strength Properties of FDM Printed Parts-A Critical Review. 2021 , 13,	28
305	Mechanical properties comparison between new and recycled polyethylene terephthalate glycol obtained from fused deposition modelling waste. 2021 , 3, e250	O

304	PLA P otato Thermoplastic Starch Filament as a Sustainable Alternative to the Conventional PLA Filament: Processing, Characterization, and FFF 3D Printing. 2021 , 9, 6923-6938	8
303	Effect of different parameters on the tensile properties of printed Polylactic acid samples by FDM: experimental design tested with MDs simulation. 1	6
302	Solid-state foaming of acrylonitrile butadiene styrene through microcellular 3D printing process. 0021955X21	10094
301	Computational homogenization of 3D printed materials by a reduced order model. 2021 , 197, 106332	4
300	Fabrication of parts with heterogeneous structure using material extrusion additive manufacturing. 2021 , 16, 267-290	3
299	Mechanical reliability of extruded PLA filaments. 2021 , 16, 101075	1
298	Optimization of Manufacturing Parameters and Tensile Specimen Geometry for Fused Deposition Modeling (FDM) 3D-Printed PETG. 2021 , 14,	16
297	Prediction of part distortion in Fused Deposition Modelling (FDM) of semi-crystalline polymers via COMSOL: Effect of printing conditions. 2021 , 33, 443-453	10
296	3D Printing-Enabled Nanoparticle Alignment: A Review of Mechanisms and Applications. 2021 , 17, e2100817	16
295	Drivers of mechanical performance variance in 3D-printed fused filament fabrication parts: An Onyx FR case study. 2021 , 42, 4786-4794	2
294	Estimations of the effective Young's modulus of specimens prepared by fused filament fabrication. 2021 , 42, 101983	1
293	Design for additive manufacturing: a comprehensive review of the tendencies and limitations of methodologies. 2021 , 27, 918-966	10
292	Correlation between production parameters and mechanical properties of ABS plus p430 fused deposition material. 095440622110272	1
291	PoreAnalyzerAn Open-Source Framework for the Analysis and Classification of Defects in Additive Manufacturing. 2021 , 11, 6086	O
2 90	A Review on Filament Materials for Fused Filament Fabrication. 2021 , 5, 69	13
289	Effect of process variables on performances measured in filament and pellet based extrusion process. 2021 , 47, 5177-5177	2
288	Evolution and new horizons in modeling crack mechanics of 3D printing polymeric structures. 2021 , 20, 100393	4
287	Recent Advances in 3D Printing for Parenteral Applications. 2021 , 23, 87	2

(2021-2021)

286	Flexural Strength and Surface Profiling of Carbon-Based PLA Parts by Additive Manufacturing. 2021 , 102, 921	4
285	The influence of porosity, crystallinity and interlayer adhesion on the tensile strength of 3D printed polylactic acid (PLA). 2021 , ahead-of-print,	6
284	Controlled extrusion-based 3D printing of micro-channels with the geometric modelling of deposited roads. 2021 , 67, 406-417	1
283	Effects of raster angle on tensile and surface roughness properties of various FDM filaments. 2021 , 35, 3347-3353	1
282	Effects of manufacturing micro-structure on vibration of FFF 3D printing plates: Material characterisation, numerical analysis and experimental study. 2021 , 268, 113970	2
281	Influence of 3D-Printed TPU Properties for the Design of Elastic Products. 2021 , 13,	5
280	On the use of laser-scanning vibrometry for mechanical performance evaluation of 3D printed specimens. 2021 , 205, 109719	2
279	Effect of a Powder Mould in the Post-Process Thermal Treatment of ABS Parts Manufactured with FDM Technology. 2021 , 13,	O
278	Effect of Process Parameters on Energy Consumption, Physical, and Mechanical Properties of Fused Deposition Modeling. 2021 , 13,	3
277	Current State and Challenges of Natural Fibre-Reinforced Polymer Composites as Feeder in FDM-Based 3D Printing. 2021 , 13,	8
276	4D Printing of Electroactive Materials. 2100019	5
275	Semi-crystalline feedstock for filament-based 3D printing of polymers. 2021 , 118, 101411	22
274	Factors affecting properties of Ti-6Al-4V alloy additive manufactured by metal fused filament fabrication. 2021 , 386, 9-19	7
273	Comparative Study of the Sensitivity of PLA, ABS, PEEK, and PETGE Mechanical Properties to FDM Printing Process Parameters. 2021 , 11, 995	20
272	Effect of geometry on the mechanical response of additively manufactured polymer. <i>Polymer Testing</i> , 2021 , 100, 107245	4
271	Predicting the yield strength of a 3D printed porous material from its internal geometry. 2021 , 44, 102061	O
270	A hybrid of genetic algorithm and particle swarm optimization for reducing material waste in extrusion-basedadditive manufacturing. 2021 , ahead-of-print,	1
269	Strength and elastic properties of 3D printed PVDF-based parts for lightweight biomedical applications. 2021 , 120, 104603	3

268	3D Printed Hollow Off-Axis Profiles Based on Carbon Fiber-Reinforced Polymers: Mechanical Testing and Finite Element Method Analysis. 2021 , 13,	4
267	The effects of infill patterns and infill percentages on energy consumption in fused filament fabrication using CFR-PEEK. 2021 , ahead-of-print,	3
266	Experimental Evaluation of Polyphenylsulfone (PPSF) Powders as Fire-Retardant Materials for Processing by Selective Laser Sintering. 2021 , 13,	0
265	On investigations of 3D printed nylon 6 parts prepared by fused filament fabrication. 2021 , 48, 1153-1153	O
264	Conservative Confidence Interval Prediction in Fused Deposition Modeling Process With Linear Optimization Approach. 2022 , 8,	1
263	Effects of extruder temperatures and raster orientations on mechanical properties of the FFF-processed polylactic-acid (PLA) material. 2021 , ahead-of-print,	2
262	Influence of Infill Pattern on Mechanical Behavior of Polymeric and Composites Specimens Manufactured Using Fused Filament Fabrication Technology. 2021 , 13,	4
261	The effect of process parameters in material extrusion processes on the part surface quality: A review. 2021 , 50, 1234-1234	O
2 60	Additive manufacturing of polymer nanocomposites: Needs and challenges in materials, processes, and applications. 2021 , 14, 910-941	19
259	Guidelines for 3D printed springs using material extrusion. 2021, ahead-of-print,	
259 258	Guidelines for 3D printed springs using material extrusion. 2021, ahead-of-print, On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29	
	On shear fracture and morphological features of fused filament fabrication based almond skin	O
258	On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29	0
258 257	On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29 FDM Layering Deposition Effects on Mechanical Response of TPU Lattice Structures. 2021, 14, Investigation of tensile property-based Taguchi method of PLA parts fabricated by FDM 3D printing	
258 257 256	On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29 FDM Layering Deposition Effects on Mechanical Response of TPU Lattice Structures. 2021, 14, Investigation of tensile property-based Taguchi method of PLA parts fabricated by FDM 3D printing technology. 2021, 11, 100264 Material extrusion and sintering of binder-coated zirconia: Comprehensive characterizations. 2021,	12
258 257 256 255	On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29 FDM Layering Deposition Effects on Mechanical Response of TPU Lattice Structures. 2021, 14, Investigation of tensile property-based Taguchi method of PLA parts fabricated by FDM 3D printing technology. 2021, 11, 100264 Material extrusion and sintering of binder-coated zirconia: Comprehensive characterizations. 2021, 45, 102073	12
258 257 256 255 254	On shear fracture and morphological features of fused filament fabrication based almond skin reinforced PLA structures. 1-29 FDM Layering Deposition Effects on Mechanical Response of TPU Lattice Structures. 2021, 14, Investigation of tensile property-based Taguchi method of PLA parts fabricated by FDM 3D printing technology. 2021, 11, 100264 Material extrusion and sintering of binder-coated zirconia: Comprehensive characterizations. 2021, 45, 102073 Recent Progress in 3D printing Piezoelectric Materials for Biomedical Applications. 3D/4D Printing of Polymers: Fused Deposition Modelling (FDM), Selective Laser Sintering (SLS), and	12 1 1

250	Material and process engineering aspects to improve the quality of the bonding layer in a laser-assisted fused filament fabrication process. 2021 , 46, 102105	1
249	Finite element analysis of residual stress and warpage in a 3D printed semi-crystalline polymer: Effect of ambient temperature and nozzle speed. 2021 , 70, 389-399	3
248	ABS filament moisture compensation possibilities in the FDM process. 2021 , 35, 550-559	3
247	Comprehending the role of process parameters and filament color on the structure and tribological performance of 3D printed PLA. 2021 , 15, 647-660	9
246	Desktop printing of 3D thermoplastic polyurethane parts with enhanced mechanical performance using filaments with varying stiffness. 2021 , 47, 102267	2
245	Investigation of in-situ chemical cross-linking during fused filament fabrication process on parts shrinkage reduction and interlayer adhesion. 2021 , 15, 2026-2035	О
244	Direct extrusion 3D printing for a softer PLA-based bio-polymer composite in pellet form. 2021 , 15, 936-949	4
243	Compressive behaviors of 3D printed polypropylene-based composites at low and high strain rates. Polymer Testing, 2021 , 103, 107321 4.5	6
242	Curved layered fused filament fabrication: An overview. 2021 , 47, 102354	2
241	Material model identification from set of experiments and validation by DIC. 2021 , 189, 339-367	2
240	Multiscale technique for the analysis of 3D-printed materials. 2021 , 232, 111173	О
239	Mechanical property variance amongst vertical fused filament fabricated specimens via four different printing methods. 2021 , 70, 1073	2
238	The Effects of 3D Printing Structural Modelling on Compression Properties for Material Jetting and FDM Process. 2021 , 171-194	О
237	Application of Neural Network to Predict Printability of Polycaprolactone Using FDM. 2021 , 263-276	
236	Structural Strength Improvement of 3D Printing Parts from Topology Optimised Design Using Anisotropic Material Modelling. 2021 , 439-448	
235	Machine Learning for Optimizing Technological Properties of Wood Composite Filament-Timberfill Fabricated by Fused Deposition Modeling. 2020 , 119-132	1
234	Experimental Investigation on Tensile Properties of Nylon Glass Fibre Material Made Using Fused Deposition Modelling Process. 2021 , 329-342	1
233	Current understanding and challenges in high temperature additive manufacturing of engineering thermoplastic polymers. 2020 , 34, 101218	33

232	Mechanical characterization and vibrational analysis of 3D printed PETG and PETG reinforced with short carbon fiber. 2020 ,	3
231	Investigating the effect of orientation, infill density with Triple raster pattern on the tensile properties for 3D Printed samples. 2020 , 1, 024405	1
230	The influence of the MEX manufacturing parameters on the tensile elastic response of printed elements. 2021 , 27, 187-196	2
229	Evaluating the effect of variable fiber content on mechanical properties of additively manufactured continuous carbon fiber composites. 2021 , 40, 365-377	10
228	From materials to devices using fused deposition modeling: A state-of-art review. 2020 , 9, 1594-1609	18
227	Biodegradable Poly(Lactic Acid) Nanocomposites for Fused Deposition Modeling 3D Printing. 2020 , 10,	21
226	A Review of Printable Flexible and Stretchable Tactile Sensors. 2019 , 2019, 3018568	61
225	Influence of infill density on microstructure and flexural behavior of 3D printed PLA thermoplastic parts processed by fusion deposition modeling. 2019 , 6, 1033-1048	16
224	3 Boyutlu Yaz lli le Farkl l Yazd l ma Parametreleri Kullan la rak letilen Elhe Test Numunelerinin Mekanik Zelliklerinin licelenmesi. 2021 , 36, 835-846	O
223	Effects of Coefficient of Thermal Expansion and Moisture Absorption on the Dimensional Accuracy of Carbon-Reinforced 3D Printed Parts. 2021 , 13,	1
222	Methodology to estimate the modulus of elasticity of parts manufactured by FFF/FDM combining finite element simulations and experimental tests. 2021 , 1193, 012103	О
221	Design of experiment analysis on tensile properties of PLA samples produced by fused filament fabrication.	4
220	Study for the selection of 3D printing parameters for the design of TPU products. 2021 , 1193, 012035	О
219	Compression Performance with Different Build Orientation of Fused Filament Fabrication Polylactic Acid, Acrylonitrile Butadiene Styrene, and Polyether Ether Ketone. 2022 , 31, 1925	3
218	Determination of Adhesive to Be Applied in the Fabrication of Prototypes Using FDM Techniques of 3D Printing in Component Parts Using ULTEMI 010. 2020 , 959-969	
217	The Influence of 3D Printing Parameters on Adhesion between Polylactic Acid (PLA) and Thermoplastic Polyurethane (TPU). 2021 , 14,	4
216	FFF 3D Printing in Electronic Applications: Dielectric and Thermal Properties of Selected Polymers. 2021 , 13,	2
215	Parametric analysis and optimization of fused deposition modeling technique for dynamic mechanical properties of acrylic butadiene styrene parts. 095440622110478	2

214 Effect of Counter-Gravity 3D Printing on PLA Interlayer Fracture Energy. 2020, 249-255

213	Mechanical Properties, Structure and Fracture Behavior of Additive Manufactured FFF-ABS Specimens. 2020 , 31, 71-78		O
212	Effect of Material on the Mechanical Properties of Additive Manufactured Thermoplastic Parts. 2020 , 31, 5-12		0
211	Systematic Experimental Evaluation of Function Based Cellular Lattice Structure Manufactured by 3D Printing. 2021 , 11, 10489		O
210	A Novel Conservative Failure Model for the Fused Deposition Modeling of Polylactic Acid Specimens. 2021 , 102460		1
209	Development and analysis of nanoparticle infused plastic products manufactured by machine learning guided 3D printer. <i>Polymer Testing</i> , 2022 , 106, 107429	4.5	O
208	Extrusion width critically affects fibre orientation in short fibre reinforced material extrusion additive manufacturing. 2021 , 49, 102496		1
207	Effects of Short-Term Thermal Aging on the Fracture Behavior of 3D-Printed Polymers. 1		O
206	Mechanical and electrical behavior of ABS polymer reinforced with graphene manufactured by the FDM process. 1		3
205	Accelerated Aging Effect on Mechanical Properties of Common 3D-Printing Polymers. 2021 , 13,		4
204	Layup sequence and interfacial bonding of additively manufactured polymeric composite: A brief review. 2021 , 10, 1853-1872		1
203	Correlation Matrix for Mechanical, Rheological and Morphological Properties of PP-CaCO3 Composites. 2021 ,		
202	Investigation of the Biocidal Performance of Multi-Functional Resin/Copper Nanocomposites with Superior Mechanical Response in SLA 3D Printing 2022 , 7,		1
201	3D-printed poly(oxymethylene): Improving printability via PMMA sacrificial substrates and characterization of the mechanical and thermal properties. 1		1
200	Method of Medical Equipment Evaluation and Preparation for On-Demand Additive Manufacturing with the Conventional Supply Chain Being Broken: A Case Study of Mask Filter Adapter Production during COVID-19. 2021 , 11, 12016		0
199	Analysis and Optimization of Dimensional Accuracy and Porosity of High Impact Polystyrene Material Printed by FDM Process: PSO, JAYA, Rao, and Bald Eagle Search Algorithms. 2021 , 14,		2
198	Maleimide-styrene-butadiene terpolymers: acrylonitrile-butadiene-styrene inspired photopolymers for additive manufacturing.		O
197	Investigation on the Effect of Printing Parameters on Flexural properties of 3D Printed Polymeric Scaffolds. 2022 , 2169, 012027		

196	Accelerated quality improvement of 3D printed objects based on a case-based reasoning system. 2022 , 119, 4599	
195	Recent advances and perspectives of 3D printed micro-supercapacitors: from design to smart integrated devices 2022 ,	3
194	General Methodology to Investigate the Effect of Process Parameters on the Vibration Properties of Structures Produced by Additive Manufacturing Using Fused Filament Fabrication. 2022 , 74, 1166	О
193	PEEK filament characteristics before and after extrusion within fused filament fabrication process. 2022 , 57, 766-788	2
192	Mechanical Properties and Characterization of Polylactic Acid/Carbon Fiber Composite Fabricated by Fused Deposition Modeling. 1	3
191	Synthesis and Characterisation of ASA-PEEK Composites for Fused Filament Fabrication 2022, 14,	O
190	Development of automated feature extraction and convolutional neural network optimization for real-time warping monitoring in 3D printing. 1-18	О
189	Three-Dimensional Printing Strategies for Irregularly Shaped Cartilage Tissue Engineering: Current State and Challenges 2021 , 9, 777039	O
188	Modeling the Effect of In Situ Nozzle-Integrated Compression Rolling on the Void Reduction and Filaments-Filament Adhesion in Fused Filament Fabrication (FFF). 1	
187	Digital light processing 3D printing of multi-materials with improved adhesion using resins containing low functional acrylates. 2022 , 39, 451-459	O
186	A fuzzy Bayesian network-based approach for modeling and analyzing factors causing process variability. 2022 , ahead-of-print,	
185	Direct evidence of interfacial crystallization preventing weld formation during fused filament fabrication of poly(ether ether ketone). 2022 , 51, 102604	
184	A multiscale modeling approach of the Fused Filament Fabrication process to predict the mechanical response of 3D printed parts. 2022 , 51, 102597	O
183	EcoBlendsIp: PLA/BioPA blends composites, microfibrillated Ih situIthrough additive manufacturing. 2022 , 118, 103255	
182	Investigation of tensile properties of PLABrass composite using FDM. 1	3
181	Development of Additive Manufacturing-Based Medical Products for Clinical Translation and Marketing. 2022 , 267-292	O
180	Effects of Infill Speed and Heat Treatment on Mechanical Properties of Carbon Fiber Reinforced Polyethylene Terephthalate Glycol (CF-PETG) Composites. 2022 ,	
179	Volumetric additive manufacturing of shape memory polymers. 2022 , 13, 1813-1817	O

178	Thermal annealing as a post-process for additively manufactured Ultem 9085 parts. 2022, 200, 1308-1317	0
177	Anatomy of a Fused Filament Fabrication (FFF) 3D Printing System for High-Grade Polymers (HGPs)An Overview. 2022 , 179-196	
176	Design optimization of PLA lattice in 3D printing. 2022,	
175	A Review on Material Extrusion Additive Manufacturing of Metal and How It Compares with Metal Injection Moulding. 2022 , 12, 429	5
174	AI in AM: An experimental investigation using adaptive neuro-Fuzzy interface system as a prediction tool. 2022 ,	O
173	Effects of Steam Heat and Dry Heat Sterilization Processes on 3D Printed Commercial Polymers Printed by Fused Deposition Modeling 2022 , 14,	1
172	Fused deposition modeling: process, materials, parameters, properties, and applications. 2022, 120, 1531	3
171	The Influence of the Process Parameters on the Mechanical Properties of PLA Specimens Produced by Fused Filament Fabrication-A Review 2022 , 14,	4
170	Process parameter optimization for Fused Filament Fabrication additive manufacturing of PLA/PHA biodegradable polymer blend. 2022 , 37, 1-14	2
169	Influence of Ambient Temperature on Part Distortion: A Simulation Study on Amorphous and Semi-Crystalline Polymer 2022 , 14,	1
168	Computational characterization of polymeric materials 3D-printed via fused filament fabrication. 1-11	O
167	A Survey of the Influence of Process Parameters on Mechanical Properties of Fused Deposition Modeling Parts 2022 , 13,	2
166	Multimaterial Extrusion-Based Additive Manufacturing of Compliant Crack Arrester: Influence of Interlayer Length, Thickness, and Applied Strain Rate. 2101703	O
165	Experimental investigation on the effect of printing parameters on the impact response of thin-walled tubes produced by additive manufacturing method. 1-14	
164	Polymeric Materials for Additive Manufacturing. 1-28	
163	Effect of Build Orientation on Load Capacity of 3D Printed Parts. 2022 , 10, 38-52	Ο
162	Simulating energy consumption based on material addition rates for material extrusion of CFR-PEEK: a trade-off between energy costs and cycle time 2022 , 1-20	1
161	Energy Absorption and Stiffness of Thin and Thick-Walled Closed-Cell 3D-Printed Structures Fabricated from a Hyperelastic Soft Polymer 2022 , 15,	3

160	Effect of infill pattern and infill density on mechanical behaviour of FDM 3D printed Parts- a current review. 2022 ,		1
159	3D Printing Devices and Reinforcing Techniques for Extruded Cement-Based Materials: A Review. 2022 , 12, 453		2
158	Experimental assessment of thermal gradients and layout effects on the mechanical performance of components manufactured by fused deposition modeling. 2022 , ahead-of-print,		1
157	Application of machine learning methods on dynamic strength analysis for additive manufactured polypropylene-based composites. <i>Polymer Testing</i> , 2022 , 107580	4.5	1
156	Continuously varied infill pattern (ConVIP): improvement of mechanical properties and printing speed of fused filament fabrication (FFF) 3D printing. 2022 , 18, 1055-1069		О
155	Stiffness and damping behavior of 3D printed specimens. <i>Polymer Testing</i> , 2022 , 109, 107529	4.5	O
154	Tensile Strength Enhancement of Fused Filament Fabrication Printed Parts: A Review of Process Improvement Approaches and Respective Impact. 2022 , 54, 102724		О
153	Additively manufactured fiber-reinforced composites: A review of mechanical behavior and opportunities. 2022 , 119, 219-244		3
152	3 BOYUTLU YAZICI 🛭 E FARKLI RENKLERDE VE FARKLI DOLGU DESENLERNDE RETŪEN EKME TEST NUMUNELERNN MEKANK ØELLKLERNN NICELENMES 🛭 829-848		О
151	Investigation of layer height influencing the impact strength of polylactic acid (PLA). 2021 , 15, 76-83		
151 150	Investigation of layer height influencing the impact strength of polylactic acid (PLA). 2021 , 15, 76-83 Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022 , 236, 963-976		1
			1
150	Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022 , 236, 963-976		1
150 149	Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022 , 236, 963-976 Additively Manufactured Polymer Optomechanics and Their Application in Laser Systems. 2022 , 25-50 Improved Test Methods for Polymer Additive Manufacturing Interlayer Weld Strength and Filament		1
150 149 148	Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022, 236, 963-976 Additively Manufactured Polymer Optomechanics and Their Application in Laser Systems. 2022, 25-50 Improved Test Methods for Polymer Additive Manufacturing Interlayer Weld Strength and Filament Mechanical Properties. 2022, 325-338		
150 149 148	Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022, 236, 963-976 Additively Manufactured Polymer Optomechanics and Their Application in Laser Systems. 2022, 25-50 Improved Test Methods for Polymer Additive Manufacturing Interlayer Weld Strength and Filament Mechanical Properties. 2022, 325-338 A Statistical Approach of the Flexural Strength of PLA and ABS 3D Printed Parts. 2022, 12, 8248-8252 Application and Development of Modern 3D Printing Technology in the Field of Orthopedics 2022,		1
150 149 148 147 146	Dynamic Characterization of Additively Manufactured Polylactide (PLA). 2022, 236, 963-976 Additively Manufactured Polymer Optomechanics and Their Application in Laser Systems. 2022, 25-50 Improved Test Methods for Polymer Additive Manufacturing Interlayer Weld Strength and Filament Mechanical Properties. 2022, 325-338 A Statistical Approach of the Flexural Strength of PLA and ABS 3D Printed Parts. 2022, 12, 8248-8252 Application and Development of Modern 3D Printing Technology in the Field of Orthopedics 2022, 2022, 8759060		1

142	Effect of raster angle on mechanical properties of 3D printed short carbon fiber reinforced acrylonitrile butadiene styrene. 2022 , 32, 101163	4
141	Scientometric analysis and critical review of fused deposition modeling in the plastic recycling context. 2022 , 2, 100008	1
140	A Review of 3D/4D Printing of Poly-Lactic Acid Composites with Bio-Derived Reinforcements. 2022 , 8, 100271	3
139	The Effects of the Ironing Process on the Surface Texture and Thermo-Mechanical Properties of Material Extruded Polylactic Acid.	
138	Studying the Effect of Short Carbon Fiber on Fused Filament Fabrication Parts Roughness via Machine Learning.	O
137	Numerical Investigation of the Infill Rate upon Mechanical Proprieties of 3D-Printed Materials. 2022 , 14, 2022	O
136	Evolution of 5D Printing and Its Vast Applications: A Review. 2022 , 691-714	
135	Required parameters for modelling heterogeneous geographically dispersed manufacturing systems. 2022 , 107, 1545-1550	
134	Experimental Investigation on the Mechanical Characteristics of FDM Printed Polymer. 2022, 741-760	
133	Application of machine learning in fused deposition modeling: A review. 2022,	
133	Application of machine learning in fused deposition modeling: A review. 2022, Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures.	o
	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of	0
132	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures. Application of Fused Deposition Modeling (FDM) on Bone Scaffold Manufacturing Process: A	
132	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures. Application of Fused Deposition Modeling (FDM) on Bone Scaffold Manufacturing Process: A Review.	0
132 131 130	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures. Application of Fused Deposition Modeling (FDM) on Bone Scaffold Manufacturing Process: A Review. Experimental Modal Analysis and Characterization of Additively Manufactured Polymers. 2022, 14, 2071 Mechanical response assessment of antibacterial PA12/TiO2 3D printed parts: parameters	0
132 131 130	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures. Application of Fused Deposition Modeling (FDM) on Bone Scaffold Manufacturing Process: A Review. Experimental Modal Analysis and Characterization of Additively Manufactured Polymers. 2022, 14, 2071 Mechanical response assessment of antibacterial PA12/TiO2 3D printed parts: parameters optimization through artificial neural networks modeling. Klasik Laminasyon Teorisinin (Boyutlu Yaz@le Eriyik Yaha Modelleme Yatemi Kullanarak)	0
132 131 130 129	Effect of Fused Filament Fabrication Process Parameters on Compressive Strength of Thermoplastic Polyurethane and Polylactic Acid Lattice Structures. Application of Fused Deposition Modeling (FDM) on Bone Scaffold Manufacturing Process: A Review. Experimental Modal Analysis and Characterization of Additively Manufactured Polymers. 2022, 14, 2071 Mechanical response assessment of antibacterial PA12/TiO2 3D printed parts: parameters optimization through artificial neural networks modeling. Klasik Laminasyon Teorisinin Boyutlu Yazelle Eriyik Ytha Modelleme Ythemi Kullanlarak Eetilmil Plastiklere Uygulanmas Per Tam Alanla Per Gerinim Haritalanmas 2022, 22, 342-352 Experimental and numerical analysis of the stress state of honeycombs made by additive	0

124	Establishing the Optimal Infill for Peak Tensile and Compressive Performance of CF Reinforced Polyamide Test Specimens Manufactured through Additive Manufacturing. 36, 113-123	
123	Optimization of Fused Deposition Modeling Process Parameters and Dynamic Mechanical Analysis of 3D Printed Polycarbonate/Acrylonitrile-Butadiene-Styrene Composite Loaded with Tetrabromobiphenol-A and Microcrystalline Cellulose.	0
122	Biodegradation of 3D-Printed Biodegradable/Non-biodegradable Plastic Blends.	О
121	Experimental and Computational Analysis of Elastic Modulus of 3D Printed Parts Using Impulse Excitation Technique (IET).	
120	On elastic anisotropy of 3D printed acrylonitrile butadiene styrene structures. 2022 , 254, 125032	
119	Influence of Thermal Annealing Temperatures on Powder Mould Effectiveness to Avoid Deformations in ABS and PLA 3D-Printed Parts. 2022 , 14, 2607	1
118	Optimization of Printing Parameters to Maximize the Mechanical Properties of 3D-Printed PETG-Based Parts. 2022 , 14, 2564	2
117	Influential Effects of Process Parameters of Fused Deposition Modelling on Wear of a PLA Specimen: A Comprehensive Review. 2023 , 579-590	
116	TPU-based porous heterostructures by combined techniques. 2022 ,	2
115	Effect of Process Parameters on the Compressive and Impact Strength of 3D Printed Parts.	
115 114	Effect of Process Parameters on the Compressive and Impact Strength of 3D Printed Parts. Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022, 103050	0
	Towards standardizing the preparation of test specimens made with material extrusion: Review of	0
114	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022 , 103050 Feasibility study on the use of recycled materials for prototyping purposes: A comparative study	0
114	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022, 103050 Feasibility study on the use of recycled materials for prototyping purposes: A comparative study based on the tensile strength. 095440542211133	
114 113 112	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022, 103050 Feasibility study on the use of recycled materials for prototyping purposes: A comparative study based on the tensile strength. 095440542211133 3D Printing onto Textiles: A Systematic Analysis of the Adhesion Studies. A hybrid numerical-experimental strategy for predicting mechanical response of components	0
114 113 112	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022, 103050 Feasibility study on the use of recycled materials for prototyping purposes: A comparative study based on the tensile strength. 095440542211133 3D Printing onto Textiles: A Systematic Analysis of the Adhesion Studies. A hybrid numerical-experimental strategy for predicting mechanical response of components manufactured via FFF. 2022, 115998 Effect of Fused Filament Fabrication Parameters and Tetrabromobisphenol-A/Microcrystalline Cellulose Additives on the Dynamic Mechanical Behavior of	0
114 113 112 111 110	Towards standardizing the preparation of test specimens made with material extrusion: Review of current techniques for tensile testing. 2022, 103050 Feasibility study on the use of recycled materials for prototyping purposes: A comparative study based on the tensile strength. 095440542211133 3D Printing onto Textiles: A Systematic Analysis of the Adhesion Studies. A hybrid numerical-experimental strategy for predicting mechanical response of components manufactured via FFF. 2022, 115998 Effect of Fused Filament Fabrication Parameters and Tetrabromobisphenol-A/Microcrystalline Cellulose Additives on the Dynamic Mechanical Behavior of Polycarbonate/AcrylonitrileButadieneBtyrene Blends for Precision Structures. Polimer Cvatalar ifh Yeni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Keni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi Ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi Ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi Ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi Ve FarklibaskByfilerinin Polimer Cvatalar ifh Yeni Bir Betim Yfitemi Ve FarklibaskByfilerinin Polimer Cvat	0

106	Mechanical strength and shape accuracy optimization of polyamide FFF parts using grey relational analysis. 2022 , 12,	1
105	Investigating the Effect of Processing Parameters on Mechanical Behavior of 3D Fused Deposition Modeling Printed Polylactic Acid.	1
104	Cost Model Framework for Pieces Additively Manufactured in Fused Deposition Modeling for Low to Medium Batches.	
103	Experimental Validation of Numerical Model for Thermomechanical Performance of Material Extrusion Additive Manufacturing Process: Effect of Process Parameters. 2022 , 14, 3482	1
102	Preliminary Tensile Investigation of FDM Printed PLA/Coconut Wood Composite. 2023, 339-350	1
101	Hybrid deposition additive manufacturing: novel volume distribution, thermo-mechanical characterization, and image analysis. 2022 , 44,	
100	Development of a Test Bench for the Investigation of Thermoplastic-Thermoset Material Combinations in Additive Manufacturing. 1067, 107-112	
99	Preliminary Tensile Investigation of FDM Printed PLA/Copper Composite. 2023, 351-361	
98	3D Printing Parameter Optimization Using Taguchi Approach to Examine Acrylonitrile Styrene Acrylate (ASA) Mechanical Properties. 2022 , 14, 3256	1
97	A Comprehensive Review on the Optimization of the Fused Deposition Modeling Process Parameter for Better Tensile Strength of PLA-Printed Parts. 2022 , 2022, 1-11	Ο
96	Additive manufacturing for advanced rechargeable lithium batteries: A mini review. 10,	Ο
95	Surface texture and thermo-mechanical properties of material extruded and ironed polylactic acid. 2022 , 59, 103084	Ο
94	Effects of a rotary shear field on the interlayer bond and mechanical properties of carbon-fiber-reinforced plastic composites fabricated using fused deposition modeling. 2022 , 83, 172-179	0
93	Material extrusion thermal model mapped across polyetheretherketone isothermal and continuous cooling transformation charts. 2022 , 59, 103129	O
92	Development of a controlled-atmosphere, rapid-cooling cryogenic chamber for tribological and mechanical testing. 2022 , 93, 083911	0
91	Parametric Investigation and Optimization to Study the Effect of Process Parameters on the Dimensional Deviation of Fused Deposition Modeling of 3D Printed Parts. 2022 , 14, 3667	O
90	Catalytic Materials by 3D Printing: A Mini Review. 2022 , 12, 1081	0
89	Flexural behavior of sandwich panels with 3D printed cellular cores and aluminum face sheets under quasi-static loading. 109963622211279	1

88	Experimental Studies on the Mechanical Behaviour of Three-Dimensional PLA Printed Parts by Fused Filament Fabrication.	1
87	Effect of fiber content and plasticizer on mechanical and joint properties of carbon fiber powder reinforced PLA manufactured by 3D printing process. 1-24	1
86	Fused Deposition Modeling with Induced Vibrations: A Study on the Mechanical Characteristics of Printed Parts. 2022 , 12, 9327	O
85	Construction and Validation of Simulation Models of Samples Made from 316L Steel by Applying Additive Technique. 2022 , 15, 6244	O
84	Influence of warm isostatic press (WIP) process parameters on mechanical properties of additively manufactured acrylonitrile butadiene styrene (ABS) parts.	O
83	Biomedical Applications. 2022 , 155-189	О
82	Optimization of DIY open source 3D printer from scratch. 2022 ,	O
81	Influence of bond interface over the lap-shear performance of 3D printed multi-material samples. 2022 , 368, 01005	O
80	Recent Developments in Additive-Manufactured Intermetallic Compounds for Bio-Implant Applications.	1
79	Experimental investigation of fracture toughness of fused deposition modeling 3D-printed PLA parts. 2022 ,	O
78	Analysis and optimization of FFF process parameters to enhance the mechanical properties of 3D printed PLA products. 2022 ,	O
77	Evaluation of effect and optimizing of process parameters for fused deposition modeling parts on tensile properties via Taguchi method.	1
76	Study of Material Color Influences on Mechanical Characteristics of Fused Deposition Modeling Parts. 2022 , 15, 7039	1
75	The role of paradigms and technical strategies for implementation of the circular economy in polymer and composites recycling industries. 2022 ,	O
74	Roadmap: Numerical-Experimental Investigation and Optimization of 3D-Printed Parts Using Response Surface Methodology. 2022 , 15, 7193	1
73	Development of PLA/Microcellulose Biocomposite Filaments for 3D Printing. 2022 , 405, 2100250	O
72	An Overview of Various Additive Manufacturing Technologies and Materials for Electrochemical Energy Conversion Applications.	0
71	Open challenges in tensile testing of additively manufactured polymers: A literature survey and a case study in fused filament fabrication. 2022 , 107859	1

70	Mechanical properties optimization for PLA, ABS and Nylon + CF manufactured by 3D FDM printing. 2022 , 33, 104774	0
69	A systematic investigation on the minimum tensile strengths and size effects of 3D printing polymers. 2023 , 117, 107845	О
68	Mechanical Properties of 3D-Printed Components Using Fused Deposition Modeling: Optimization Using the Desirability Approach and Machine Learning Regressor. 2022 , 5, 112	0
67	A comprehensive experimental investigation on mechanical properties and fracture morphology of particulate composites via material extrusion-based 3D printing. 2022 , 100348	1
66	Influence of curvy stiffeners on the axial crushing response of 3D-printed polymer composite cylindrical tubular structures. 146442072211375	0
65	The influence of dog-bone shaped specimen geometry on tensile test results of fused filament fabricated Nylon 12.	О
64	Customized blends of polypropylene for extrusion based additive manufacturing.	1
63	Characterization of the non-isotropic tensile and fracture behavior of unidirectional polylactic acid parts manufactured by material extrusion. 2023 , 61, 103369	O
62	Experimental and multiscale computational static and dynamic study of 3D printed elements with mesostructure. 2023 , 215, 103876	О
61	Polysaccharides: Sustainable Green-Composite Biomaterials. 2022 , 1-11	O
60	On the Influence of Perimeter, Infill-Direction and Geometry on Ithe Tensile Properties of Test Specimen Manufactured by Fused Filament Fabrication. 2022 , 167-182	О
59	EFFECT OF PRINTING SPEED ON FDM 3D-PRINTED PLA SAMPLES PRODUCED USING DIFFERENT TWO PRINTERS.	O
58	Effect of infill pattern on fatigue characteristics of 3D printed polymers. 2022,	О
57	Application of fused deposition modeling (FDM) on bone scaffold manufacturing process: A review. 2022 , 8, e11701	О
56	Design of experiments to compare the reprocessing effect with Fused Deposition Modeling printing parameters on mechanical properties of Polylactic Acid specimens towards circular economy. 147776062211457	О
55	Ultrasonic-assisted reinforcement and annealing treatment of additive manufacturing polyether-ether-ketone.	О
54	Implementation of Smart Materials for Actuation of Traditional Valve Technology for Hybrid Energy Systems.	О
53	Predicting the Yield Stress of Geomaterials from Their Microstructure. 2023, 205-211	О

52	Self-Monitoring Performance of 3D-Printed Poly-Ether-Ether-Ketone Carbon Nanotube Composites. 2023 , 15, 8	0
51	Mechanical response of additively manufactured foam: A machine learning approach. 2022, 16, 100801	O
50	Direct ink write 3D printing of wave propagation sensor. 2022 , 7, 045011	1
49	Effect of Testing Standard on Parameter Optimization of Fused Deposition Modelling Process. 2022 , 2390, 012075	O
48	Effect of 3D Printing Process Parameters on Damping Characteristic of Cantilever Beams Fabricated Using Material Extrusion. 2023 , 15, 257	1
47	Effect of Post-Printing Cooling Conditions on the Properties of ULTEM Printed Parts. 2023 , 15, 324	О
46	Experimental analysis at different loading rates of 3D printed polymeric auxetic structure based on cylindrical elements. 2023 , 119, 107930	1
45	Farklæetim parametreleri kullantarak 3B yazæle fætilen test numunelerinin stfilme davrantarati deneysel olarak incelenmesi.	O
44	4D Printing using Fused Deposited Shape Memory Polymer PLA: A state-of-art Review. 2022,	0
43	A Novel Infill Strategy to Approach Non-Planar 3D-printing in 6-Axis Robotized FDM. 2022 ,	O
42	Effects of Accelerating the Ageing of 1D PLA Filaments after Fused Filament Fabrication. 2023, 15, 69	0
41	Evaluation of additive manufacturing process parameters for improved mechanical properties of thermoplastic parts. 2022 ,	O
40	Mechanical Characterization of Filler Modified ABS 3D Printed Composites Made via Fused Filament Fabrication. 2022 , 33, 27-34	0
39	Mechanical Performance, Structure and Fractography of ABS Manufactured by the Fused Filament Fabrication Additive Manufacturing. 2022 , 33, 5-26	O
38	Enhanced interfacial adhesion and increased isotropy of 3D printed parts with microcellular structure fabricated via a micro-extrusion CO 2 foaming process.	0
37	Advances in nanocomposite material for Fused Filament Fabrication. 2022 , 61, 1617-1661	O
36	Impact of FDM 3D Printing Parameters on Compressive Strength and Printing Weight of PLA Components. 2023 , 495-504	О
35	Open challenges and future opportunities in fused deposition modeling of composite materials. 2023 , 289-329	O

34	Characterization and quality assurance in fused deposition modeling. 2023, 109-129	О
33	Optimization of Fatigue Performance of FDM ABS and Nylon Printed Parts. 2023, 14, 304	O
32	The Effects of Different Process Parameters of PLA+ on Tensile Strengths in 3D Printer Produced by Fused Deposition Modeling.	O
31	Fused deposition modeling of composite materials at a glance Bupplementary tables. 2023, 329-445	O
30	Mechanical properties evaluation of FFF-printed ABS samples based on different process parameters combined with ANOVA and regression analysis. 095440622311515	0
29	MetaPrint: A Virtual Additive Manufacturing Tool for Print Analysis. 2022,	O
28	Monitoring the liberation of volatile organic compounds during fused deposition modeling three dimensional printing using solid-phase microextraction coupled to gas chromatography/mass spectrometry. 2023 , 1693, 463886	O
27	Influence of material extrusion parameters on fracture mechanisms of polylactic acid under three-point bending. 2023 , 283, 109223	O
26	Anisotropy and internal flaws effects on fatigue response of notched 3D-printed PLA parts. 2023 , 35, 105734	0
25	Evaluation of manufacturing defects in 3D printed carbon fiber reinforced cylindrical composite structure based on laser ultrasonic testing. 2023 , 135, 102802	O
24	Impact of processing defects on microstructure, surface quality, and tribological performance in 3D printed polymers. 2023 , 23, 1252-1272	O
23	Reinforcement-material effects on the compression behavior of polymer composites. 2023, 140,	O
22	Optimization of Charpy-impact strength of 3D -printed carbon fiber/polyamide composites by Taguchi method.	O
21	The theoretical adhesion of Staphylococcus aureus and Pseudomonas aeruginosa as nosocomial pathogens on 3D printing filament materials.	O
20	A holistic approach of reconfigurable mould based fused deposition modelling for producing overhanging parts. 1-15	O
19	Fracture Analysis of a 3D-Printed ABS Specimen: Effects of Raster Angle and Layer Orientation. 2023 , 26, 19-32	O
18	Effect of the Functionalization Method of Carbon Nanotubes on the Technological and Performance Properties of ABS-Based Filaments for FDM Printing. 2022 , 17, 780-787	O
17	Reducing mechanical anisotropy in material extrusion process using bioinspired architectured lattice structures. 2023 , 66, 103480	O

16	Impact of additive manufacturing on reaction to fire. 073490412311589	O
15	Optimizing fused filament fabrication process parameters for quality enhancement of PA12 parts using numerical modeling and taguchi method. 2023 , 9, e14445	O
14	Implementation of Smart Materials for Actuation of Traditional Valve Technology for Hybrid Energy Systems. 2023 , 12, 131	О
13	FDM-based 3D printing of PLA/PHA composite polymers.	O
12	The Effects of Different Molding Orientations, Highly Accelerated Aging, and Water Absorption on the Flexural Strength of Polyether Ether Ketone (PEEK) Fabricated by Fused Deposition Modeling. 2023 , 15, 1602	0
11	Understanding compressive viscoelastic properties of additively manufactured PLA for bone-mimetic scaffold design. 2023 , 114, 103972	O
10	Simulation of fused deposition modeling of glass fiber reinforced ABS impact samples: The effect of fiber ratio, infill rate, and infill pattern on warpage and residual stresses.	О
9	Bead geometryInduced stress concentration factors in material extrusion polymer additive manufacturing.	O
8	Selection of infill parameters considering their effects on operational and mechanical performance for material extrusion of CFR-PEEK.	0
7	Investigations and predictions for mechanical and surface properties of FFF prints using DOE, ML and FEA. 1-17	O
6	Challenges and Opportunities in Additive Manufacturing Polymer Technology: A Review Based on Optimization Perspective. 2023 , 2023, 1-18	O
5	ANN based prediction of the absorption characteristics of additive manufactured glycol-modified polyethylene terephthalate nanocomposites reinforced with short-carbon fibers and nanoclay fillers.	O
4	Establishing a Framework for Fused Filament Fabrication Process Optimization: A Case Study with PLA Filaments. 2023 , 15, 1945	О
3	Effect of UV-C Radiation on 3D Printed ABS-PC Polymers. 2023 , 15, 1966	O
2	Impact of compression and bending behavior on fused deposition modeling of 3D printed components. 2023 ,	О
1	Cellulose nanocrystal-assisted processing of nanocomposite filaments for fused filament fabrication. 2023 , 278, 125980	0