

Ludwig Cardon

List of Publications by Year in descending order

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66
papers

2,546
citations

218677

26
h-index

197818

49
g-index

68
all docs

68
docs citations

68
times ranked

2688
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress on flexible and stretchable piezoresistive strain sensors: From design to application. <i>Progress in Materials Science</i> , 2020, 114, 100617.	32.8	267
2	Noninvasive in vivo 3D bioprinting. <i>Science Advances</i> , 2020, 6, eaba7406.	10.3	186
3	The strength of multi-scale modeling to unveil the complexity of radical polymerization. <i>Progress in Polymer Science</i> , 2016, 58, 59-89.	24.7	174
4	Anisotropic properties of oriented short carbon fibre filled polypropylene parts fabricated by extrusion-based additive manufacturing. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 113, 95-104.	7.6	156
5	Linear Gradient Quality of ATRP Copolymers. <i>Macromolecules</i> , 2012, 45, 8519-8531.	4.8	139
6	Can the melt flow index be used to predict the success of fused deposition modelling of commercial poly(lactic acid) filaments into 3D printed materials?. <i>Plastics, Rubber and Composites</i> , 2018, 47, 9-16.	2.0	116
7	Rapid 3D printing of functional nanoparticle-enhanced conduits for effective nerve repair. <i>Acta Biomaterialia</i> , 2019, 90, 49-59.	8.3	114
8	Polypropylene Filled With Glass Spheres in Extrusion-Based Additive Manufacturing: Effect of Filler Size and Printing Chamber Temperature. <i>Macromolecular Materials and Engineering</i> , 2018, 303, 1800179.	3.6	95
9	Computational prediction of the molecular configuration of three-dimensional network polymers. <i>Nature Materials</i> , 2021, 20, 1422-1430.	27.5	84
10	On the role of flame retardants in mechanical recycling of solid plastic waste. <i>Waste Management</i> , 2018, 82, 198-206.	7.4	80
11	Optimisation of the Adhesion of Polypropylene-Based Materials during Extrusion-Based Additive Manufacturing. <i>Polymers</i> , 2018, 10, 490.	4.5	70
12	Heat resistance of new biobased polymeric materials, focusing on starch, cellulose, PLA, and PHA. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	2.6	63
13	Progress in Reaction Mechanisms and Reactor Technologies for Thermochemical Recycling of Poly(methyl methacrylate). <i>Polymers</i> , 2020, 12, 1667.	4.5	62
14	Designing formulation variables of extrusion-based manufacturing of carbon black conductive polymer composites for piezoresistive sensing. <i>Composites Science and Technology</i> , 2019, 171, 78-85.	7.8	53
15	The Effect of Multiple Extrusions on the Properties of Montmorillonite Filled Polypropylene. <i>Polymers</i> , 2014, 6, 2912-2927.	4.5	50
16	The Effect of Injection Molding Temperature on the Morphology and Mechanical Properties of PP/PET Blends and Microfibrillar Composites. <i>Polymers</i> , 2016, 8, 355.	4.5	47
17	Facile and Low-Cost Route for Sensitive Stretchable Sensors by Controlling Kinetic and Thermodynamic Conductive Network Regulating Strategies. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 22678-22691.	8.0	45
18	State of the Art for Extrudate Swell of Molten Polymers: From Fundamental Understanding at Molecular Scale toward Optimal Die Design at Final Product Scale. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 2000340.	3.6	41

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19	Improving Mechanical Properties for Extrusion-Based Additive Manufacturing of Poly(Lactic Acid) by Annealing and Blending with Poly(3-Hydroxybutyrate). <i>Polymers</i> , 2019, 11, 1529.	4.5	40
20	Relationship between the Processing, Structure, and Properties of Microfibrillar Composites. <i>Advanced Materials</i> , 2020, 32, e2003938.	21.0	37
21	Development of Crystalline Morphology and Its Relationship with Mechanical Properties of PP/PET Microfibrillar Composites Containing POE and POE-g-MA. <i>Polymers</i> , 2018, 10, 291.	4.5	35
22	Effect of Matrix and Graphite Filler on Thermal Conductivity of Industrially Feasible Injection Molded Thermoplastic Composites. <i>Polymers</i> , 2019, 11, 87.	4.5	35
23	The relevance of material and processing parameters on the thermal conductivity of thermoplastic composites. <i>Polymer Engineering and Science</i> , 2018, 58, 466-474.	3.1	34
24	Processing of Polysulfone to Free Flowing Powder by Mechanical Milling and Spray Drying Techniques for Use in Selective Laser Sintering. <i>Polymers</i> , 2016, 8, 150.	4.5	30
25	Three-dimensional flow simulations for polymer extrudate swell out of slit dies from low to high aspect ratios. <i>Physics of Fluids</i> , 2019, 31, .	4.0	28
26	Processing of Syndiotactic Polystyrene to Microspheres for Part Manufacturing through Selective Laser Sintering. <i>Polymers</i> , 2016, 8, 383.	4.5	27
27	Can filaments, pellets and powder be used as feedstock to produce highly drug-loaded ethylene-vinyl acetate 3D printed tablets using extrusion-based additive manufacturing?. <i>International Journal of Pharmaceutics</i> , 2021, 607, 120922.	5.2	25
28	Melt exit flow modelling and experimental validation for fused filament fabrication: From Newtonian to non-Newtonian effects. <i>Journal of Manufacturing Processes</i> , 2022, 77, 138-150.	5.9	24
29	Theoretical Evaluation of the Melting Efficiency for the Single-Screw Micro-Extrusion Process: The Case of 3D Printing of ABS. <i>Processes</i> , 2020, 8, 1522.	2.8	23
30	Influence of Different Stabilization Systems and Multiple Ultraviolet A (UVA) Aging/Recycling Steps on Physicochemical, Mechanical, Colorimetric, and Thermal-Oxidative Properties of ABS. <i>Materials</i> , 2020, 13, 212.	2.9	23
31	Isothermal flow of neat polypropylene through a slit die and its die swell: Bridging experiments and 3D numerical simulations. <i>Journal of Non-Newtonian Fluid Mechanics</i> , 2019, 266, 33-45.	2.4	22
32	Effect of extrusion and fused filament fabrication processing parameters of recycled poly(ethylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 102518.	3.0	22
33	Continuous Fiber-Reinforced Aramid/PETG 3D-Printed Composites with High Fiber Loading through Fused Filament Fabrication. <i>Polymers</i> , 2022, 14, 298.	4.5	21
34	A Statistical Analysis on the Effect of Antioxidants on the Thermal-Oxidative Stability of Commercial Mass- and Emulsion-Polymerized ABS. <i>Polymers</i> , 2019, 11, 25.	4.5	20
35	Evaluating the exit pressure method for measurements of normal stress difference at high shear rates. <i>Journal of Rheology</i> , 2020, 64, 739-750.	2.6	19
36	Effects of Phase Morphology on Mechanical Properties: Oriented/Unoriented PP Crystal Combination with Spherical/Microfibrillar PET Phase. <i>Polymers</i> , 2019, 11, 248.	4.5	18

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37	Extending Multilevel Statistical Entropy Analysis towards Plastic Recyclability Prediction. Sustainability, 2021, 13, 3553.	3.2	18
38	Synergy of Advanced Experimental and Modeling Tools to Underpin the Synthesis of Static Step-Growth-Based Networks Involving Polymeric Precursor Building Blocks. Macromolecules, 2021, 54, 9280-9298.	4.8	18
39	Quantification of thermal material degradation during the processing of biomedical thermoplastics. Journal of Applied Polymer Science, 2011, 120, 2872-2880.	2.6	17
40	Heat resistance of biobased materials, evaluation and effect of processing techniques and additives. Polymer Engineering and Science, 2018, 58, 513-520.	3.1	15
41	Elegant design of carbon nanotube foams with double continuous structure for metamaterials in a broad frequency range. Journal of Materials Chemistry C, 2020, 8, 3226-3234.	5.5	14
42	New Approach to Optimize Mechanical Properties of the Immiscible Polypropylene/Poly (Ethylene Terephthalate) Blends. Journal of Applied Polymer Science, 2019, 142, 4751-4760.	4.5	10
43	The impact of upstream contraction flow on three-dimensional polymer extrudate swell from slit dies. Journal of Non-Newtonian Fluid Mechanics, 2020, 282, 104337.	2.4	10
44	A Combined Experimental and Modeling Study for Pellet-Fed Extrusion-Based Additive Manufacturing to Evaluate the Impact of the Melting Efficiency. Materials, 2021, 14, 5566.	2.9	10
45	An evaluation of three different techniques for melt impregnation of glass fiber bundles with polyamide 12. Polymer Engineering and Science, 2018, 58, 601-608.	3.1	9
46	The Transferability and Design of Commercial Printer Settings in PLA/PBAT Fused Filament Fabrication. Polymers, 2020, 12, 2573.	4.5	9
47	Polystyrene-coated alumina powder via dispersion polymerization for indirect selective laser sintering applications. Journal of Applied Polymer Science, 2013, 128, 2121-2128.	2.6	8
48	Fused filament fabrication of copolyesters by understanding the balance of inter- and intra-layer welding. Plastics, Rubber and Composites, 2022, 51, 126-132.	2.0	8
49	Long-term stability of cellulose acetate butyrate thin films for nuclear certified reference materials. Journal of Radioanalytical and Nuclear Chemistry, 2017, 311, 877-886.	1.5	7
50	Preparation and Electrochemical Performance of Hollow Activated Carbon Fiber Self-Supported Electrode for Supercapacitor. Journal of Nanoscience and Nanotechnology, 2020, 20, 2316-2323.	0.9	7
51	The effect of polyethylene on the properties of talc-filled recycled polypropylene. Plastics, Rubber and Composites, 2022, 51, 118-125.	2.0	7
52	EVALUATION OF POST-CONSUMER MIXED POLYOLEFINS AND THEIR INJECTION MOULDED BLENDS WITH VIRGIN POLYETHYLENE. Environmental Engineering and Management Journal, 2018, 17, 427-434.	0.6	7
53	Lifting the Sustainability of Modified Pet-Based Multilayer Packaging Material with Enhanced Mechanical Recycling Potential and Processing. Polymers, 2022, 14, 196.	4.5	7
54	The Feasibility of Using the MFC Concept to Upcycle Mixed Recycled Plastics. Sustainability, 2021, 13, 689.	3.2	6

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55	Combining carbon nanotube foam with nanosilver/silicone resin or graphene foam for advanced metamaterial design. <i>Journal of Materials Science</i> , 2020, 55, 16211-16219.	3.7	4
56	Setting the Optimal Laser Power for Sustainable Powder Bed Fusion Processing of Elastomeric Polyesters: A Combined Experimental and Theoretical Study. <i>Materials</i> , 2022, 15, 385.	2.9	4
57	The upcycling of post-industrial PP/PET waste streams through in-situ microfibrillar preparation. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	3
58	Increased through-plane thermal conductivity of injection moulded thermoplastic composites by manipulation of filler orientation. <i>Plastics, Rubber and Composites</i> , 2022, 51, 110-117.	2.0	3
59	Optimising open and closed cooling time for hybrid injection moulding of polypropylene with polyamide inserts from multi jet fusion. <i>Plastics, Rubber and Composites</i> , 2021, 50, 137-145.	2.0	3
60	Increasing the Sustainability of the Hybrid Mold Technique through Combined Insert Polymeric Material and Additive Manufacturing Method Design. <i>Sustainability</i> , 2022, 14, 877.	3.2	3
61	Combining Chromatographic, Rheological, and Mechanical Analysis to Study the Manufacturing Potential of Acrylic Blends into Polyacrylic Casts. <i>Materials</i> , 2021, 14, 6939.	2.9	2
62	From identifying polymeric resins to corrosion casting applications. <i>Journal of Applied Polymer Science</i> , 2022, 139, .	2.6	2
63	Principles and Guidelines for In-Line Viscometry in Cereal Extrusion. <i>Polymers</i> , 2022, 14, 2316.	4.5	2
64	MFC concept as a possible solution for closed-loop recycling of food packaging trays. <i>AIP Conference Proceedings</i> , 2020, , .	0.4	1
65	Testing the PTT Rheological Model for Extrusion of Virgin and Composite Materials in View of Enhanced Conductivity and Mechanical Recycling Potential. <i>Processes</i> , 2021, 9, 1969.	2.8	0
66	Letter to the reader. <i>Plastics, Rubber and Composites</i> , 2022, 51, 109-109.	2.0	0