

Lubos Behalek

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	The Influence of Additives and Environment on Biodegradation of PHBV Biocomposites. <i>Polymers</i> , 2022, 14, 838.	2.0	9
2	Application of Physical Methods for the Detection of a Thermally Degraded Recycled Material in Plastic Parts Made of Polypropylene Copolymer. <i>Materials</i> , 2021, 14, 552.	1.3	3
3	Biodegradation of Poly(Lactic Acid) Biocomposites under Controlled Composting Conditions and Freshwater Biotope. <i>Polymers</i> , 2021, 13, 594.	2.0	25
4	Implementation of a Recycled Polypropylene Homopolymer Material for Use in Additive Manufacturing. <i>Sustainability</i> , 2021, 13, 4990.	1.6	1
5	Effect of In-Mold Annealing on the Properties of Asymmetric Poly(l-lactide)/Poly(d-lactide) Blends Incorporated with Nanohydroxyapatite. <i>Polymers</i> , 2021, 13, 2835.	2.0	6
6	Physical Properties and Non-Isothermal Crystallisation Kinetics of Primary Mechanically Recycled Poly(l-lactic acid) and Poly(3-hydroxybutyrate-co-3-hydroxyvalerate). <i>Polymers</i> , 2021, 13, 3396.	2.0	3
7	Effect of Radiation Crosslinking and Surface Modification of Cellulose Fibers on Properties and Characterization of Biopolymer Composites. <i>Polymers</i> , 2020, 12, 3006.	2.0	12
8	Thermal properties and non-isothermal crystallization kinetics of biocomposites based on poly(lactic acid) and poly(ε-caprolactone). <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 695-713.	2.0	16
9	Solid and microcellular polylactide nucleated with PLA stereocomplex and cellulose nanocrystals. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 695-713.	2.0	9
10	Mechanical Properties of Hierarchical Biopolymer Composite with a Modified Surface of Knitting Fabric. <i>Materials Science Forum</i> , 2020, 994, 179-188.	0.3	2
11	Impact of Various Sterilization and Disinfection Techniques on Electrospun Poly(ε-caprolactone). <i>ACS Omega</i> , 2020, 5, 8885-8892.	1.6	36
12	MECHANICAL PROPERTIES OF TWO TYPES OF LATTICE STRUCTURES FABRICATED WITH THE USE OF HP MULTIJET FUSION TECHNOLOGY. <i>MM Science Journal</i> , 2020, 2020, 4074-4079.	0.2	1
13	PROPERTIES AND CRYSTALLIZATION OF PLLA BIOPOLYMERS WITH CELLULOSE NANOCRYSTALS AND ORGANIC PLASTICIZER. <i>MM Science Journal</i> , 2020, 2020, 4080-4085.	0.2	3
14	MECHANICAL PROPERTIES OF BIOPOLYMER COMPOSITE WITH NATURAL FIBERS SURFACE MODIFIED BY LOW-TEMPERATURE PLASMA. <i>MM Science Journal</i> , 2020, 2020, 4007-4014.	0.2	0
15	THROUGH TRANSMISSION LASER WELDING PROCESS OPTIMIZATION FOR SEMICRYSTALLINE AND AMORPHOUS PLASTICS. <i>MM Science Journal</i> , 2020, 2020, 4119-4123.	0.2	0
16	Recycling of sisal fiber reinforced polypropylene and polylactic acid composites: Thermo-mechanical properties, morphology, and water absorption behavior. <i>Waste Management</i> , 2019, 97, 71-81.	3.7	72
17	Structure-related properties of bionanocomposites based on poly(lactic acid), cellulose nanocrystals and organic impact modifier. <i>Materials Technology</i> , 2019, 34, 143-156.	1.5	15
18	The influence of the use of technological waste on the mechanical behavior of fibrous polymer composite. <i>Composites Part B: Engineering</i> , 2019, 166, 162-168.	5.9	4

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19	FUSED DEPOSITION MODELLING VS. INJECTION MOULDING: INFLUENCE OF FIBER ORIENTATION AND LAYER THICKNESS ON THE MECHANICAL PROPERTIES. MM Science Journal, 2018, 12, 2722-2726.	0.2	7
20	THE INFLUENCE OF HUMIDITY AND TEMPERATURE ON THE PROPERTIES OF PHOTOPOLYMER MATERIALS MADE BY POLYJET TECHNOLOGY. MM Science Journal, 2018, 12, 2727-2731.	0.2	2
21	MECHANICAL PROPERTIES OF PRODUCTS MADE OF ABS WITH RESPECT TO INDIVIDUALITY OF FDM PRODUCTION PROCESSES. MM Science Journal, 2017, 2017, 1748-1751.	0.2	8
22	Influence of Different Coupling Agent Type on Processibility and Applicability of Polymer Composites. Materials Science Forum, 2016, 862, 123-132.	0.3	0
23	Thermal Degradation of the Thermoplastic Elastomers during the Injection Moulding Process. Materials Science Forum, 2016, 862, 148-155.	0.3	1
24	Utilizing of inner porous structure in injection moulds for application of special cooling method. Journal of Physics: Conference Series, 2016, 709, 012003.	0.3	1
25	EVALUATION OF THE IMPACT OF PRODUCTION PARAMETERS ON THE FINAL PROPERTIES OF THE PART MADE OF NYLON 12 WITH RAPID PROTOTYPING TECHNOLOGY (FDM). MM Science Journal, 2016, 2016, 956-959.	0.2	3
26	POSSIBILITY TO DETECT DEGRADED RECYCLED MATERIAL IN THE MOULDED PARTS FROM PP. MM Science Journal, 2016, 2016, 989-993.	0.2	1
27	Effect of compatibilizing agents on the interface and mechanical behaviour of polypropylene/hemp bast fiber biocomposites. IOP Conference Series: Materials Science and Engineering, 2015, 87, 012085.	0.3	2
28	Observation of Impact of Progressive Cooling System on Temperature Field Distributions on Surfaces of Injection Moulded Plastic Parts. Key Engineering Materials, 2015, 669, 19-28.	0.4	0
29	Gate Location and its Impact to Flowing Characteristics of Plastic Moldings. Key Engineering Materials, 2015, 669, 36-43.	0.4	7
30	Physical-Mechanical Properties of Hollow Glass Microspheres Filled Polypropylene Composites for Injection Moulding. Key Engineering Materials, 2015, 669, 3-10.	0.4	2
31	Crystallization of Polylactic Acid Composites with Banana and Hemp Fibres by Means of DSC and XRD Methods. Applied Mechanics and Materials, 2014, 616, 325-332.	0.2	2
32	Impact of Natural and Synthetic Nanofibres Presence in Polymeric Composites on Mechanical Properties. Materials Research Society Symposia Proceedings, 2014, 1613, 133-139.	0.1	1
33	Conformal Cooling of the Injection Moulds. Applied Mechanics and Materials, 0, 308, 127-132.	0.2	17
34	Differential Scanning Calorimetry as a Tool for Quality Testing of Plastics. Key Engineering Materials, 0, 669, 485-493.	0.4	1
35	Two Component Parts Hardness Optimization Regarding Production Systems. Key Engineering Materials, 0, 669, 44-51.	0.4	0
36	New Silane and MAPP Coupling Agents as Natural Composites Production Systems Improvement. Key Engineering Materials, 0, 669, 52-59.	0.4	1

#	ARTICLE	IF	CITATIONS
37	Effect of Dielectric Barrier Discharge Plasma Surface Treatment on the Properties of Pineapple Leaf Fiber Reinforced Poly(Lactic Acid) Biocomposites. Materials Science Forum, 0, 862, 156-165.	0.3	7
38	Adhesion Additive Influence on Polyamide Nanopolymer Composite Properties. Defect and Diffusion Forum, 0, 368, 142-145.	0.4	1
39	Use of Composite Materials for FDM 3D Print Technology. Materials Science Forum, 0, 862, 174-181.	0.3	32
40	Dynamic-Mechanical Properties of Polymer Composites with the Short and Long Glass Fibers. Materials Science Forum, 0, 862, 166-173.	0.3	1
41	Crystallization and Thermal Degradation of Green Nanocomposites Based on Lignin Coated Cellulose Nanocrystals and Poly(Lactic Acid). Key Engineering Materials, 0, 737, 256-261.	0.4	1