

Jozsef Gabor Kovacs

List of Publications by Year in descending order

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65
papers

1,606
citations

304743

22
h-index

315739

38
g-index

65
all docs

65
docs citations

65
times ranked

1759
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystalline structure of annealed polylactic acid and its relation to processing. EXPRESS Polymer Letters, 2010, 4, 659-668.	2.1	256
2	3D Rapid Prototyping Technology (RPT) as a powerful tool in microfluidic development. Procedia Engineering, 2010, 5, 291-294.	1.2	113
3	Effect of crystalline forms (α and β) of poly(lactic acid) on its mechanical, thermo-mechanical, heat deflection temperature and creep properties. European Polymer Journal, 2016, 82, 232-243.	5.4	93
4	Chopped basalt fibres: A new perspective in reinforcing poly(lactic acid) to produce injection moulded engineering composites from renewable and natural resources. EXPRESS Polymer Letters, 2013, 7, 107-119.	2.1	69
5	In-Mold Sensors for Injection Molding: On the Way to Industry 4.0. Sensors, 2019, 19, 3551.	3.8	65
6	Improving the ductility and heat deflection temperature of injection molded Poly(lactic acid) products: A comprehensive review. Polymer Testing, 2021, 101, 107282.	4.8	58
7	Improvement of Mechanical Properties of Injection-Molded Polylactic Acid/Kenaf Fiber Biocomposite. Journal of Thermoplastic Composite Materials, 2012, 25, 153-164.	4.2	54
8	Investigation of injection moulded poly(lactic acid) reinforced with long basalt fibres. Composites Part A: Applied Science and Manufacturing, 2014, 64, 99-106.	7.6	54
9	Comparison of thermal, mechanical and thermomechanical properties of poly(lactic acid) injection-molded into epoxy-based Rapid Prototyped (PolyJet) and conventional steel mold. Journal of Thermal Analysis and Calorimetry, 2016, 123, 349-361.	3.6	42
10	Thermal simulations and measurements for rapid tool inserts in injection molding applications. Applied Thermal Engineering, 2015, 85, 44-51.	6.0	41
11	Examination of injection moulded thermoplastic maize starch. EXPRESS Polymer Letters, 2007, 1, 804-809.	2.1	41
12	Monitoring multi-respiratory indices via a smart nanofibrous mask filter based on a triboelectric nanogenerator. Nano Energy, 2021, 89, 106418.	16.0	40
13	Combination of 3D printing and injection molding: Overmolding and overprinting. EXPRESS Polymer Letters, 2019, 13, 889-897.	2.1	38
14	The effect of EVA content on the processing parameters and the mechanical properties of LDPE/ground tire rubber blends. Polymer Engineering and Science, 2008, 48, 868-874.	3.1	35
15	Enhanced Injection Molding Simulation of Advanced Injection Molds. Polymers, 2017, 9, 77.	4.5	33
16	Injection molding of ceramic filled polypropylene: The effect of thermal conductivity and cooling rate on crystallinity. Thermochimica Acta, 2013, 574, 145-150.	2.7	32
17	Thermal and mechanical analysis of injection moulded poly(lactic acid) filled with poly(ethylene) Tj ETQq1 1 0.784314 rgBT /Overlock 10	3.6	32
18	Development and characterisation of injection moulded, all-polypropylene composites. EXPRESS Polymer Letters, 2013, 7, 134-145.	2.1	31

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19	A Review of Thermoplastic Resin Transfer Molding: Process Modeling and Simulation. <i>Polymers</i> , 2019, 11, 1555.	4.5	27
20	Effect of glass bead content and diameter on shrinkage and warpage of injection-molded PA6. <i>Polymer Engineering and Science</i> , 2009, 49, 2218-2224.	3.1	26
21	Examination of starch preprocess drying and water absorption of injection-molded starch-filled poly(lactic acid) products. <i>Polymer Engineering and Science</i> , 2011, 51, 843-850.	3.1	24
22	Investigation of cooling effect at corners in injection molding. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1330-1334.	5.6	22
23	Thermally conductive polymer compounds for injection moulding: The synergetic effect of hexagonal boron-nitride and talc. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 1234-1240.	3.1	22
24	Experimental validation of simulated weld line formation in injection moulded parts. <i>Polymer Testing</i> , 2010, 29, 910-914.	4.8	21
25	Creep behaviour of injection-moulded basalt fibre reinforced poly(lactic acid) composites. <i>Journal of Reinforced Plastics and Composites</i> , 2016, 35, 1600-1610.	3.1	20
26	Machine Learning in Injection Molding: An Industry 4.0 Method of Quality Prediction. <i>Sensors</i> , 2022, 22, 2704.	3.8	20
27	Personalized Mass Production by Hybridization of Additive Manufacturing and Injection Molding. <i>Polymers</i> , 2021, 13, 309.	4.5	17
28	Thermal analysis based method development for novel rapid tooling applications. <i>International Communications in Heat and Mass Transfer</i> , 2019, 108, 104297.	5.6	16
29	Injection Molding of Degradable Interference Screws into Polymeric Mold. <i>Materials Science Forum</i> , 2010, 659, 73-77.	0.3	15
30	Micromechanical Property Investigations of Poly(lactic acid)-Kenaf Fiber Biocomposites. <i>Journal of Natural Fibers</i> , 2011, 8, 14-26.	3.1	14
31	Methodology development for through-plane thermal conductivity prediction of composites. <i>International Journal of Thermal Sciences</i> , 2016, 100, 54-59.	4.9	14
32	Gate type influence on thermal characteristics of injection molded biodegradable interference screws for ACL reconstruction. <i>International Communications in Heat and Mass Transfer</i> , 2010, 37, 766-769.	5.6	13
33	Test method development for deformation analysis of injection moulded plastic parts. <i>Polymer Testing</i> , 2011, 30, 543-547.	4.8	13
34	Development of a novel color inhomogeneity test method for injection molded parts. <i>Polymer Testing</i> , 2014, 37, 112-116.	4.8	12
35	Shrinkage alteration induced by segregation of glass beads in injection molded PA6: Experimental analysis and modeling. <i>Polymer Engineering and Science</i> , 2011, 51, 2517-2525.	3.1	11
36	Deformation analysis of short glass fiber-reinforced polypropylene injection-molded plastic parts. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1367-1372.	3.1	11

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37	Aerodynamic and aero-acoustic improvement of electric motor cooling equipment. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2014, 228, 300-316.	1.4	11
38	Thermoplastic Overmolding onto Injection-Molded and In Situ Polymerization-Based Polyamides. Materials, 2018, 11, 2140.	2.9	11
39	In-situ monitoring of deformation in rapid prototyped injection molds. Additive Manufacturing, 2021, 42, 102001.	3.0	11
40	Comparison of the efficiency of the most effective heterogeneous nucleating agents for Poly(lactic) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.6	11
41	Development and Validation of a Test Mold for Thermoplastic Resin Transfer Molding of Reactive PA-6. Polymers, 2020, 12, 976.	4.5	10
42	Evaluation of measured and calculated thermal parameters of a photopolymer. International Communications in Heat and Mass Transfer, 2011, 38, 863-867.	5.6	9
43	Development of Thermally Conductive Polymer Materials and their Investigation. Materials Science Forum, 0, 729, 80-84.	0.3	9
44	Plasma treatment to improve the adhesion between ABS and PA6 in hybrid structures produced by injection overmolding. Polymer Testing, 2022, 106, 107446.	4.8	9
45	The influence of nucleating agents, plasticizers, and molding conditions on the properties of injection molded PLA products. Materials Today Communications, 2022, 32, 103936.	1.9	8
46	Surface Homogeneity of Injection Molded Parts. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 284-291.	1.4	7
47	Effects of Injection Molding Screw Tips on Polymer Mixing. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 241-246.	1.4	7
48	The effect of limescale on heat transfer in injection molding. International Communications in Heat and Mass Transfer, 2017, 86, 101-107.	5.6	6
49	Bonding strength calculation in multicomponent plastic processing technologies. Materials and Manufacturing Processes, 2022, 37, 151-159.	4.7	6
50	Developments in the Field of Rapid Prototype Production. Materials Science Forum, 2008, 589, 421-425.	0.3	5
51	The Examination of Weld Line Properties in Injection Molded PP Composites. Materials Science Forum, 2008, 589, 263-267.	0.3	5
52	Interfacial Shear Strength of Polylactic Acid-Kenaf Fibre Biocomposites. Key Engineering Materials, 0, 471-472, 781-785.	0.4	5
53	Development of a pressureâ€“volumeâ€“temperature measurement method for thermoplastic materials based on compression injection molding. Journal of Applied Polymer Science, 2014, 131, .	2.6	5
54	Construction of Pre-Deformed Shapes for Rapid Tooling in Injection Molding. Macromolecular Symposia, 2006, 239, 259-265.	0.7	4

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55	Enhancing Thermal Simulations for Prototype Molds. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 320-325.	1.4	4
56	Pressureâ€dependent heat transfer coefficient measurement for thermoplastic melts. Polymer Engineering and Science, 2022, 62, 1137-1146.	3.1	4
57	The analysis of injection molding defects caused by gate vestiges. EXPRESS Polymer Letters, 2015, 9, 394-400.	2.1	3
58	Development of injection molding simulation algorithms that take into account segregation. Powder Technology, 2021, 389, 368-375.	4.2	3
59	Development of a Novel Pvt Measuring Technique. Materials Science Forum, 2012, 729, 126-131.	0.3	2
60	Effects of Dynamic Mixers on the Color Homogeneity and the Process in Injection Molding. Polymer Engineering and Science, 2019, 59, E189.	3.1	2
61	The Change of the 3D Printing Product Mechanical Properties in the Function of Different Post-Treatment. Materials Science Forum, 2010, 659, 183-189.	0.3	1
62	Characterization of Internal Stresses in Hybrid Steel Structures Produced by Direct Metal Laser Sintering. Materials Science Forum, 2017, 885, 196-201.	0.3	1
63	Evaluation of the homogenization properties of masterbatches. Coloration Technology, 2017, 133, 431-438.	1.5	1
64	Modeling the Thermal Conductivity Inhomogeneities of Injection-Molded Particle-Filled Composites, Caused by Segregation. Polymers, 2019, 11, 1691.	4.5	1
65	The Effect of Masterbatch Recipes on the Homogenization Properties of Injection Molded Parts. International Journal of Polymer Science, 2017, 2017, 1-7.	2.7	0