Jozsef Gabor Kovacs

List of Publications by Citations

62 papers	1,077 citations	18 h-index	31 g-index
65 ext. papers	1,324 ext. citations	3.4 avg, IF	4.69 L-index

#	Paper	IF	Citations
62	Crystalline structure of annealed polylactic acid and its relation to processing. *EXPRESS Polymer Letters*, **2010**, 4, 659-668	3.4	209
61	3D Rapid Prototyping Technology (RPT) as a powerful tool in microfluidic development. *Procedia Engineering*, **2010**, 5, 291-294		90
60	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	3.4	54
59	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	5.2	52
58	Investigation of injection moulded poly(lactic acid) reinforced with long basalt fibres. *Composites Part A: Applied Science and Manufacturing*, **2014**, 64, 99-106	8.4	41
57	Improvement of Mechanical Properties of Injection-Molded Polylactic Acid/Kenaf Fiber Biocomposite. *Journal of Thermoplastic Composite Materials*, **2012**, 25, 153-164	1.9	41
56	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	4.1	35
55	Examination of injection moulded thermoplastic maize starch. *EXPRESS Polymer Letters*, **2007**, 1, 804-809	3.4	35
54	In-Mold Sensors for Injection Molding: On the Way to Industry 4.0. *Sensors*, **2019**, 19,	3.8	31
53	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	2.3	31
52	Thermal simulations and measurements for rapid tool inserts in injection molding applications. *Applied Thermal Engineering*, **2015**, 85, 44-51	5.8	28
51	Thermal and mechanical analysis of injection moulded poly(lactic acid) filled with poly(ethylene glycol) and talc. *Journal of Thermal Analysis and Calorimetry*, **2014**, 118, 1419-1430	4.1	28
50	Development and characterisation of injection moulded, all-polypropylene composites. *EXPRESS Polymer Letters*, **2013**, 7, 134-145	3.4	27
49	Injection molding of ceramic filled polypropylene: The effect of thermal conductivity and cooling rate on crystallinity. *Thermochimica Acta*, **2013**, 574, 145-150	2.9	24
48	Combination of 3D printing and injection molding: Overmolding and overprinting. *EXPRESS Polymer Letters*, **2019**, 13, 889-897	3.4	21
47	Investigation of cooling effect at corners in injection molding. *International Communications in Heat and Mass Transfer*, **2011**, 38, 1330-1334	5.8	19
46	Effect of glass bead content and diameter on shrinkage and warpage of injection-molded PA6. *Polymer Engineering and Science*, **2009**, 49, 2218-2224	2.3	19

45	Thermally conductive polymer compounds for injection moulding: The synergetic effect of hexagonal boron-nitride and talc. *Journal of Reinforced Plastics and Composites*, **2013**, 32, 1234-1240	2.9	18
44	Examination of starch preprocess drying and water absorption of injection-molded starch-filled poly(lactic acid) products. *Polymer Engineering and Science*, **2011**, 51, 843-850	2.3	18
43	Creep behaviour of injection-moulded basalt fibre reinforced poly(lactic acid) composites. *Journal of Reinforced Plastics and Composites*, **2016**, 35, 1600-1610	2.9	17
42	Enhanced Injection Molding Simulation of Advanced Injection Molds. *Polymers*, **2017**, 9,	4.5	17
41	Experimental validation of simulated weld line formation in injection moulded parts. *Polymer Testing*, **2010**, 29, 910-914	4.5	17
40	Methodology development for through-plane thermal conductivity prediction of composites. *International Journal of Thermal Sciences*, **2016**, 100, 54-59	4.1	13
39	Development of a novel color inhomogeneity test method for injection molded parts. *Polymer Testing*, **2014**, 37, 112-116	4.5	11
38	Micromechanical Property Investigations of Poly(lactic acid)/Kenaf Fiber Biocomposites. *Journal of Natural Fibers*, **2011**, 8, 14-26	1.8	11
37	Injection Molding of Degradable Interference Screws into Polymeric Mold. *Materials Science Forum*, **2010**, 659, 73-77	0.4	11
36	Gate type influence on thermal characteristics of injection molded biodegradable interference screws for ACL reconstruction. *International Communications in Heat and Mass Transfer*, **2010**, 37, 766-769	5.8	11
35	A Review of Thermoplastic Resin Transfer Molding: Process Modeling and Simulation. *Polymers*, **2019**, 11,	4.5	10
34	Test method development for deformation analysis of injection moulded plastic parts. *Polymer Testing*, **2011**, 30, 543-547	4.5	10
33	Shrinkage alteration induced by segregation of glass beads in injection molded PA6: Experimental analysis and modeling. *Polymer Engineering and Science*, **2011**, 51, 2517-2525	2.3	9
32	Monitoring multi-respiratory indices via a smart nanofibrous mask filter based on a triboelectric nanogenerator. *Nano Energy*, **2021**, 89, 106418	17.1	9
31	Evaluation of measured and calculated thermal parameters of a photopolymer. *International Communications in Heat and Mass Transfer*, **2011**, 38, 863-867	5.8	8
30	Deformation analysis of short glass fiber-reinforced polypropylene injection-molded plastic parts. *Journal of Reinforced Plastics and Composites*, **2011**, 30, 1367-1372	2.9	8
29	Improving the ductility and heat deflection temperature of injection molded Poly(lactic acid) products: A comprehensive review. *Polymer Testing*, **2021**, 101, 107282	4.5	7
28	Development of Thermally Conductive Polymer Materials and their Investigation. *Materials Science Forum*, **2012**, 729, 80-84	0.4	6

27	Surface Homogeneity of Injection Molded Parts. *Periodica Polytechnica, Mechanical Engineering*, **2018**, 62, 284-291	1.8	6
26	Personalized Mass Production by Hybridization of Additive Manufacturing and Injection Molding. *Polymers*, **2021**, 13,	4.5	6
25	Thermal analysis based method development for novel rapid tooling applications. *International Communications in Heat and Mass Transfer*, **2019**, 108, 104297	5.8	5
24	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	1.6	5
23	Interfacial Shear Strength of Polylactic Acid-Kenaf Fibre Biocomposites. *Key Engineering Materials*, **2011**, 471-472, 781-785	0.4	5
22	Effects of Injection Molding Screw Tips on Polymer Mixing. *Periodica Polytechnica, Mechanical Engineering*, **2018**, 62, 241-246	1.8	5
21	Thermoplastic Overmolding onto Injection-Molded and In Situ Polymerization-Based Polyamides. *Materials*, **2018**, 11,	3.5	5
20	Development of a pressure□olume□emperature measurement method for thermoplastic materials based on compression injection molding. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	4
19	Developments in the Field of Rapid Prototype Production. *Materials Science Forum*, **2008**, 589, 421-425	0.4	4
18	The Examination of Weld Line Properties in Injection Molded PP Composites. *Materials Science Forum*, **2008**, 589, 263-267	0.4	4
17	Construction of Pre-Deformed Shapes for Rapid Tooling in Injection Molding. *Macromolecular Symposia*, **2006**, 239, 259-265	0.8	4
16	The effect of limescale on heat transfer in injection molding. *International Communications in Heat and Mass Transfer*, **2017**, 86, 101-107	5.8	3
15	The analysis of injection molding defects caused by gate vestiges. *EXPRESS Polymer Letters*, **2015**, 9, 394-400	3.4	3
14	Comparison of the efficiency of the most effective heterogeneous nucleating agents for Poly(lactic acid). *Journal of Thermal Analysis and Calorimetry*,1	4.1	3
13	In-situ monitoring of deformation in rapid prototyped injection molds. *Additive Manufacturing*, **2021**, 42, 102001	6.1	3
12	Plasma treatment to improve the adhesion between ABS and PA6 in hybrid structures produced by injection overmolding. *Polymer Testing*, **2022**, 106, 107446	4.5	2
11	Enhancing Thermal Simulations for Prototype Molds. *Periodica Polytechnica, Mechanical Engineering* , **2018**, 62, 320-325	1.8	2
10	Characterization of Internal Stresses in Hybrid Steel Structures Produced by Direct Metal Laser Sintering. *Materials Science Forum*, **2017**, 885, 196-201	0.4	1

9	Development and Validation of a Test Mold for Thermoplastic Resin Transfer Molding of Reactive PA-6. *Polymers*, **2020**, 12,	4.5	1
8	Modeling the Thermal Conductivity Inhomogeneities of Injection-Molded Particle-Filled Composites, Caused by Segregation. *Polymers*, **2019**, 11,	4.5	1
7	Development of a Novel Pvt Measuring Technique. *Materials Science Forum*, **2012**, 729, 126-131	0.4	1
6	The Change of the 3D Printing Product Mechanical Properties in the Function of Different Post-Treatment. *Materials Science Forum*, **2010**, 659, 183-189	0.4	1
5	Effects of Dynamic Mixers on the Color Homogeneity and the Process in Injection Molding. *Polymer Engineering and Science*, **2019**, 59, E189-E195	2.3	1
4	Bonding strength calculation in multicomponent plastic processing technologies. *Materials and Manufacturing Processes*,1-9	4.1	1
3	Evaluation of the homogenization properties of masterbatches. *Coloration Technology*, **2017**, 133, 431-438	2	0
2	Development of injection molding simulation algorithms that take into account segregation. *Powder Technology*, **2021**, 389, 368-375	5.2	0
1	The Effect of Masterbatch Recipes on the Homogenization Properties of Injection Molded Parts. *International Journal of Polymer Science*, **2017**, 2017, 1-7	2.4	