

Jozsef Gabor Kovacs

List of Publications by Year in Descending Order

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Version: 2024-04-19

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Plasma treatment to improve the adhesion between ABS and PA6 in hybrid structures produced by injection overmolding. <i>Polymer Testing</i> , 2022 , 106, 107446	4.5	2
61	In-situ monitoring of deformation in rapid prototyped injection molds. <i>Additive Manufacturing</i> , 2021 , 42, 102001	6.1	3
60	Improving the ductility and heat deflection temperature of injection molded Poly(lactic acid) products: A comprehensive review. <i>Polymer Testing</i> , 2021 , 101, 107282	4.5	7
59	Development of injection molding simulation algorithms that take into account segregation. <i>Powder Technology</i> , 2021 , 389, 368-375	5.2	0
58	Monitoring multi-respiratory indices via a smart nanofibrous mask filter based on a triboelectric nanogenerator. <i>Nano Energy</i> , 2021 , 89, 106418	17.1	9
57	Personalized Mass Production by Hybridization of Additive Manufacturing and Injection Molding. <i>Polymers</i> , 2021 , 13,	4.5	6
56	Development and Validation of a Test Mold for Thermoplastic Resin Transfer Molding of Reactive PA-6. <i>Polymers</i> , 2020 , 12,	4.5	1
55	Combination of 3D printing and injection molding: Overmolding and overprinting. <i>EXPRESS Polymer Letters</i> , 2019 , 13, 889-897	3.4	21
54	Thermal analysis based method development for novel rapid tooling applications. <i>International Communications in Heat and Mass Transfer</i> , 2019 , 108, 104297	5.8	5
53	A Review of Thermoplastic Resin Transfer Molding: Process Modeling and Simulation. <i>Polymers</i> , 2019 , 11,	4.5	10
52	In-Mold Sensors for Injection Molding: On the Way to Industry 4.0. <i>Sensors</i> , 2019 , 19,	3.8	31
51	Modeling the Thermal Conductivity Inhomogeneities of Injection-Molded Particle-Filled Composites, Caused by Segregation. <i>Polymers</i> , 2019 , 11,	4.5	1
50	Effects of Dynamic Mixers on the Color Homogeneity and the Process in Injection Molding. <i>Polymer Engineering and Science</i> , 2019 , 59, E189-E195	2.3	1
49	Surface Homogeneity of Injection Molded Parts. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2018 , 62, 284-291	1.8	6
48	Enhancing Thermal Simulations for Prototype Molds. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2018 , 62, 320-325	1.8	2
47	Effects of Injection Molding Screw Tips on Polymer Mixing. <i>Periodica Polytechnica, Mechanical Engineering</i> , 2018 , 62, 241-246	1.8	5
46	Thermoplastic Overmolding onto Injection-Molded and In Situ Polymerization-Based Polyamides. <i>Materials</i> , 2018 , 11,	3.5	5

45	The effect of limescale on heat transfer in injection molding. <i>International Communications in Heat and Mass Transfer</i> , 2017 , 86, 101-107	5.8	3
44	Characterization of Internal Stresses in Hybrid Steel Structures Produced by Direct Metal Laser Sintering. <i>Materials Science Forum</i> , 2017 , 885, 196-201	0.4	1
43	The Effect of Masterbatch Recipes on the Homogenization Properties of Injection Molded Parts. <i>International Journal of Polymer Science</i> , 2017 , 2017, 1-7	2.4	
42	Evaluation of the homogenization properties of masterbatches. <i>Coloration Technology</i> , 2017 , 133, 431-438		0
41	Enhanced Injection Molding Simulation of Advanced Injection Molds. <i>Polymers</i> , 2017 , 9,	4.5	17
40	Creep behaviour of injection-moulded basalt fibre reinforced poly(lactic acid) composites. <i>Journal of Reinforced Plastics and Composites</i> , 2016 , 35, 1600-1610	2.9	17
39	Comparison of thermal, mechanical and thermomechanical properties of poly(lactic acid) injection-molded into epoxy-based Rapid Prototyped (PolyJet) and conventional steel mold. <i>Journal of Thermal Analysis and Calorimetry</i> , 2016 , 123, 349-361	4.1	35
38	Methodology development for through-plane thermal conductivity prediction of composites. <i>International Journal of Thermal Sciences</i> , 2016 , 100, 54-59	4.1	13
37	Effect of crystalline forms (α and β) of poly(lactic acid) on its mechanical, thermo-mechanical, heat deflection temperature and creep properties. <i>European Polymer Journal</i> , 2016 , 82, 232-243	5.2	52
36	The analysis of injection molding defects caused by gate vestiges. <i>EXPRESS Polymer Letters</i> , 2015 , 9, 394-400	3.4	3
35	Thermal simulations and measurements for rapid tool inserts in injection molding applications. <i>Applied Thermal Engineering</i> , 2015 , 85, 44-51	5.8	28
34	Thermal and mechanical analysis of injection moulded poly(lactic acid) filled with poly(ethylene glycol) and talc. <i>Journal of Thermal Analysis and Calorimetry</i> , 2014 , 118, 1419-1430	4.1	28
33	Development of a novel color inhomogeneity test method for injection molded parts. <i>Polymer Testing</i> , 2014 , 37, 112-116	4.5	11
32	Aerodynamic and aero-acoustic improvement of electric motor cooling equipment. <i>Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy</i> , 2014 , 228, 300-316	1.6	5
31	Development of a pressure-volume-temperature measurement method for thermoplastic materials based on compression injection molding. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	4
30	Investigation of injection moulded poly(lactic acid) reinforced with long basalt fibres. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014 , 64, 99-106	8.4	41
29	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	2.9	18
28	Injection molding of ceramic filled polypropylene: The effect of thermal conductivity and cooling rate on crystallinity. <i>Thermochimica Acta</i> , 2013 , 574, 145-150	2.9	24

27	Chopped basalt fibres: A new perspective in reinforcing poly(lactic acid) to produce injection moulded engineering composites from renewable and natural resources. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 107-119	3.4	54
26	Development and characterisation of injection moulded, all-polypropylene composites. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 134-145	3.4	27
25	Improvement of Mechanical Properties of Injection-Molded Poly(lactic acid)/Kenaf Fiber Biocomposite. <i>Journal of Thermoplastic Composite Materials</i> , 2012 , 25, 153-164	1.9	41
24	Development of a Novel PVT Measuring Technique. <i>Materials Science Forum</i> , 2012 , 729, 126-131	0.4	1
23	Development of Thermally Conductive Polymer Materials and their Investigation. <i>Materials Science Forum</i> , 2012 , 729, 80-84	0.4	6
22	Micromechanical Property Investigations of Poly(lactic acid)/Kenaf Fiber Biocomposites. <i>Journal of Natural Fibers</i> , 2011 , 8, 14-26	1.8	11
21	Investigation of cooling effect at corners in injection molding. <i>International Communications in Heat and Mass Transfer</i> , 2011 , 38, 1330-1334	5.8	19
20	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	2.3	18
19	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	2.3	9
18	Evaluation of measured and calculated thermal parameters of a photopolymer. <i>International Communications in Heat and Mass Transfer</i> , 2011 , 38, 863-867	5.8	8
17	Test method development for deformation analysis of injection moulded plastic parts. <i>Polymer Testing</i> , 2011 , 30, 543-547	4.5	10
16	Deformation analysis of short glass fiber-reinforced polypropylene injection-molded plastic parts. <i>Journal of Reinforced Plastics and Composites</i> , 2011 , 30, 1367-1372	2.9	8
15	Interfacial Shear Strength of Poly(lactic acid)-Kenaf Fibre Biocomposites. <i>Key Engineering Materials</i> , 2011 , 471-472, 781-785	0.4	5
14	Injection Molding of Degradable Interference Screws into Polymeric Mold. <i>Materials Science Forum</i> , 2010 , 659, 73-77	0.4	11
13	Crystalline structure of annealed poly(lactic acid) and its relation to processing. <i>EXPRESS Polymer Letters</i> , 2010 , 4, 659-668	3.4	209
12	The Change of the 3D Printing Product Mechanical Properties in the Function of Different Post-Treatment. <i>Materials Science Forum</i> , 2010 , 659, 183-189	0.4	1
11	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	5.8	11
10	3D Rapid Prototyping Technology (RPT) as a powerful tool in microfluidic development. <i>Procedia Engineering</i> , 2010 , 5, 291-294		90

9	Experimental validation of simulated weld line formation in injection moulded parts. <i>Polymer Testing</i> , 2010 , 29, 910-914	4.5	17
8	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	2.3	19
7	Developments in the Field of Rapid Prototype Production. <i>Materials Science Forum</i> , 2008 , 589, 421-425	0.4	4
6	The Examination of Weld Line Properties in Injection Molded PP Composites. <i>Materials Science Forum</i> , 2008 , 589, 263-267	0.4	4
5	The effect of EVA content on the processing parameters and the mechanical properties of LDPE/ground tire rubber blends. <i>Polymer Engineering and Science</i> , 2008 , 48, 868-874	2.3	31
4	Examination of injection moulded thermoplastic maize starch. <i>EXPRESS Polymer Letters</i> , 2007 , 1, 804-809	3.4	35
3	Construction of Pre-Deformed Shapes for Rapid Tooling in Injection Molding. <i>Macromolecular Symposia</i> , 2006 , 239, 259-265	0.8	4
2	Comparison of the efficiency of the most effective heterogeneous nucleating agents for Poly(lactic acid). <i>Journal of Thermal Analysis and Calorimetry</i> , 1	4.1	3
1	Bonding strength calculation in multicomponent plastic processing technologies. <i>Materials and Manufacturing Processes</i> , 1-9	4.1	1