Jozsef Gabor Kovacs

List of Publications by Year
in descending order

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	Bonding strength calculation in multicomponent plastic processing technologies. Materials and Manufacturing Processes, 2022, 37, 151-159.	4.7	6
2	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
3	Comparison of the efficiency of the most effective heterogeneous nucleating agents for Poly(lactic) Tj ETQq1 1 0.784314 rgBT /Overlo	3.6	11
4	Pressureâ€dependent heat transfer coefficient measurement for thermoplastic melts. Polymer Engineering and Science, 2022, 62, 1137-1146.	3.1	4
5	Machine Learning in Injection Molding: An Industry 4.0 Method of Quality Prediction. Sensors, 2022, 22, 2704.	3.8	20
6	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
7	In-situ monitoring of deformation in rapid prototyped injection molds. Additive Manufacturing, 2021, 42, 102001.	3.0	11
8	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
9	Development of injection molding simulation algorithms that take into account segregation. Powder Technology, 2021, 389, 368-375.	4.2	3
10	Monitoring multi-respiratory indices via a smart nanofibrous mask filter based on a triboelectric nanogenerator. Nano Energy, 2021, 89, 106418.	16.0	40
11	Personalized Mass Production by Hybridization of Additive Manufacturing and Injection Molding. Polymers, 2021, 13, 309.	4.5	17
12	Development and Validation of a Test Mold for Thermoplastic Resin Transfer Molding of Reactive PA-6. Polymers, 2020, 12, 976.	4.5	10
13	In-Mold Sensors for Injection Molding: On the Way to Industry 4.0. Sensors, 2019, 19, 3551.	3.8	65
14	Modeling the Thermal Conductivity Inhomogeneities of Injection-Molded Particle-Filled Composites, Caused by Segregation. Polymers, 2019, 11, 1691.	4.5	1
15	Combination of 3D printing and injection molding: Overmolding and overprinting. EXPRESS Polymer Letters, 2019, 13, 889-897.	2.1	38
16	Thermal analysis based method development for novel rapid tooling applications. International Communications in Heat and Mass Transfer, 2019, 108, 104297.	5.6	16
17	A Review of Thermoplastic Resin Transfer Molding: Process Modeling and Simulation. Polymers, 2019, 11, 1555.	4.5	27
18	Effects of Dynamic Mixers on the Color Homogeneity and the Process in Injection Molding. Polymer Engineering and Science, 2019, 59, E189.	3.1	2

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19	Surface Homogeneity of Injection Molded Parts. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 284-291.	1.4	7
20	Enhancing Thermal Simulations for Prototype Molds. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 320-325.	1.4	4
21	Effects of Injection Molding Screw Tips on Polymer Mixing. Periodica Polytechnica, Mechanical Engineering, 2018, 62, 241-246.	1.4	7
22	Thermoplastic Overmolding onto Injection-Molded and In Situ Polymerization-Based Polyamides. Materials, 2018, 11, 2140.	2.9	11
23	The effect of limescale on heat transfer in injection molding. International Communications in Heat and Mass Transfer, 2017, 86, 101-107.	5.6	6
24	Characterization of Internal Stresses in Hybrid Steel Structures Produced by Direct Metal Laser Sintering. Materials Science Forum, 2017, 885, 196-201.	0.3	1
25	Evaluation of the homogenization properties of masterbatches. Coloration Technology, 2017, 133, 431-438.	1.5	1
26	Enhanced Injection Molding Simulation of Advanced Injection Molds. Polymers, 2017, 9, 77.	4.5	33
27	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
28	Effect of crystalline forms (Î±â€² and Î±) 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
29	Creep behaviour of injection-moulded basalt fibre reinforced poly(lactic acid) composites. Journal of Reinforced Plastics and Composites, 2016, 35, 1600-1610.	3.1	20
30	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
31	Methodology development for through-plane thermal conductivity prediction of composites. International Journal of Thermal Sciences, 2016, 100, 54-59.	4.9	14
32	The analysis of injection molding defects caused by gate vestiges. EXPRESS Polymer Letters, 2015, 9, 394-400.	2.1	3
33	Thermal simulations and measurements for rapid tool inserts in injection molding applications. Applied Thermal Engineering, 2015, 85, 44-51.	6.0	41
34	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
35	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
36	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

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37	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
38	Development of a novel color inhomogeneity test method for injection molded parts. Polymer Testing, 2014, 37, 112-116.	4.8	12
39	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.	3.1	22
40	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
41	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
42	Development and characterisation of injection moulded, all-polypropylene composites. EXPRESS Polymer Letters, 2013, 7, 134-145.	2.1	31
43	Development of a Novel Pvt Measuring Technique. Materials Science Forum, 2012, 729, 126-131.	0.3	2
44	Improvement of Mechanical Properties of Injection-Molded Polylactic Acidâ€"Kenaf Fiber Biocomposite. Journal of Thermoplastic Composite Materials, 2012, 25, 153-164.	4.2	54
45	Micromechanical Property Investigations of Poly(lactic acid)â€"Kenaf Fiber Biocomposites. Journal of Natural Fibers, 2011, 8, 14-26.	3.1	14
46	Investigation of cooling effect at corners in injection molding. International Communications in Heat and Mass Transfer, 2011, 38, 1330-1334.	5.6	22
47	Examination of starch preprocess drying and water absorption of injectionâ€molded starchâ€filled poly(lactic acid) products. Polymer Engineering and Science, 2011, 51, 843-850.	3.1	24
48	Shrinkage alteration induced by segregation of glass beads in injection molded PA6: Experimental analysis and modeling. Polymer Engineering and Science, 2011, 51, 2517-2525.	3.1	11
49	Evaluation of measured and calculated thermal parameters of a photopolymer. International Communications in Heat and Mass Transfer, 2011, 38, 863-867.	5.6	9
50	Test method development for deformation analysis of injection moulded plastic parts. Polymer Testing, 2011, 30, 543-547.	4.8	13
51	Deformation analysis of short glass fiber-reinforced polypropylene injection-molded plastic parts. Journal of Reinforced Plastics and Composites, 2011, 30, 1367-1372.	3.1	11
52	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
53	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.	5.6	13
54	3D Rapid Prototyping Technology (RPT) as a powerful tool in microfluidic development. Procedia Engineering, 2010, 5, 291-294.	1.2	113

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55	Experimental validation of simulated weld line formation in injection moulded parts. Polymer Testing, 2010, 29, 910-914.	4.8	21
56	Injection Molding of Degradable Interference Screws into Polymeric Mold. Materials Science Forum, 2010, 659, 73-77.	0.3	15
57	Crystalline structure of annealed polylactic acid and its relation to processing. EXPRESS Polymer Letters, 2010, 4, 659-668.	2.1	256
58	Effect of glass bead content and diameter on shrinkage and warpage of injectionâ€molded PA6. Polymer Engineering and Science, 2009, 49, 2218-2224.	3.1	26
59	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
60	Developments in the Field of Rapid Prototype Production. Materials Science Forum, 2008, 589, 421-425.	0.3	5
61	The Examination of Weld Line Properties in Injection Molded PP Composites. Materials Science Forum, 2008, 589, 263-267.	0.3	5
62	Examination of injection moulded thermoplastic maize starch. EXPRESS Polymer Letters, 2007, 1, 804-809.	2.1	41
63	Construction of Pre-Deformed Shapes for Rapid Tooling in Injection Molding. Macromolecular Symposia, 2006, 239, 259-265.	0.7	4
64	Interfacial Shear Strength of Polylactic Acid-Kenaf Fibre Biocomposites. Key Engineering Materials, 0, 471-472, 781-785.	0.4	5
65	Development of Thermally Conductive Polymer Materials and their Investigation. Materials Science Forum, 0, 729, 80-84.	0.3	9