

# Antonio Sergio Pouzada

## List of Publications by Year in descending order

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68  
times ranked

692  
citing authors

#	ARTICLE	IF	CITATIONS
1	$\hat{I}_\pm$ - to $\hat{I}^2$ Transformation on PVDF Films Obtained by Uniaxial Stretch. Materials Science Forum, 2006, 514-516, 872-876.	0.3	96
2	Friction properties of moulding thermoplastics. Polymer Testing, 2006, 25, 1017-1023.	2.3	52
3	On the effect of the fiber orientation on the flexural stiffness of injection molded short fiber reinforced polycarbonate plates. Polymer Composites, 1998, 19, 640-651.	2.3	40
4	The use of a three-point support flexural test to predict the stiffness of anisotropic composite plates in bending. Polymer Testing, 2002, 21, 27-33.	2.3	37
5	Microstructural characterization and mechanical properties of functionally graded PA12/HDPE parts by selective laser sintering. International Journal of Advanced Manufacturing Technology, 2012, 59, 583-591.	1.5	36
6	Hybrid moulds: effect of the moulding blocks on the morphology and dimensional properties. Rapid Prototyping Journal, 2009, 15, 71-82.	1.6	33
7	Structure-properties relationship in single polymer composites based on polyamide 6 prepared by in-mold anionic polymerization. Journal of Materials Science, 2013, 48, 7260-7273.	1.7	31
8	Ejection force in tubular injection moldings. Part I: Effect of processing conditions. Polymer Engineering and Science, 2004, 44, 891-897.	1.5	27
9	Preparation, structural development, and mechanical properties of microfibrillar composite materials based on polyethylene/polyamide 6 oriented blends. Journal of Applied Polymer Science, 2010, 115, 2918-2932.	1.3	27
10	Hybrid moulds: A case of integration of alternative materials and rapid prototyping for tooling. Virtual and Physical Prototyping, 2009, 4, 195-202.	5.3	25
11	Ejection force of tubular injection moldings. Part II: A prediction model. Polymer Engineering and Science, 2005, 45, 325-332.	1.5	23
12	Effect of LBM and large-area EBM finishing on micro-injection moulding surfaces. International Journal of Advanced Manufacturing Technology, 2011, 52, 171-182.	1.5	22
13	Thermo-rheological behaviour of polymer melts in microinjection moulding. Journal of Micromechanics and Microengineering, 2009, 19, 105012.	1.5	19
14	Study of tribological properties of moulds obtained by stereolithography. Virtual and Physical Prototyping, 2007, 2, 29-36.	5.3	18
15	Analysis of friction in the ejection of thermoplastic mouldings. International Journal of Advanced Manufacturing Technology, 2012, 59, 977-986.	1.5	17
16	Toughness distribution in complex PP/nanoclay injected moldings. Composites Science and Technology, 2013, 74, 28-36.	3.8	17
17	The use of birefringence for predicting the stiffness of injection molded polycarbonate discs. Polymer Engineering and Science, 1998, 38, 1770-1777.	1.5	16
18	Experimental assessment of hybrid mould performance. International Journal of Advanced Manufacturing Technology, 2010, 50, 441-448.	1.5	16

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19	Predicting the Skin-Core Boundary Location in Injection Moldings. <i>International Polymer Processing</i> , 1991, 6, 370-377.	0.3	16
20	Formation and Characterization of Carbon/Polycarbonate Towpregs and Composites. <i>Journal of Composite Materials</i> , 1997, 31, 1758-1777.	1.2	15
21	Influence of hybridization of glass fiber and talc on the mechanical performance of polypropylene composites. <i>Journal of Applied Polymer Science</i> , 2009, 114, 3592-3601.	1.3	15
22	Solidification Criterion on Shrinkage Predictions for Semi-crystalline Injection Moulded Samples. <i>International Polymer Processing</i> , 2000, 15, 284-290.	0.3	14
23	A study on morphological properties of laser sintered functionally graded blends of amorphous thermoplastics. <i>International Journal of Materials and Product Technology</i> , 2010, 39, 205.	0.1	14
24	Mechanical properties of polyamide 6 reinforced microfibrillar composites. <i>Polymer Composites</i> , 2011, 32, 407-417.	2.3	13
25	Impact properties and microhardness of double- $\phi$ gated glass-reinforced polypropylene injection moldings. <i>Polymer Engineering and Science</i> , 2009, 49, 1688-1695.	1.5	11
26	Morphology-performance relationship of polypropylene-nanoclay composites processed by shear controlled injection moulding. <i>Polymer International</i> , 2013, 62, 1589-1599.	1.6	11
27	The Effect of Holding Pressure on the Shrinkage and Birefringence of Injection Moulded Polypropylene Plates. <i>Materials Science Forum</i> , 2004, 455-456, 814-817.	0.3	10
28	Mechanical Properties of Epoxy Composites Filled with Short Steel Fibres for Hybrid Injection Moulds. <i>Materials Science Forum</i> , 0, 587-588, 222-226.	0.3	10
29	The role of the interaction coefficient in the prediction of the fiber orientation in planar injection moldings. <i>Polymer Composites</i> , 2003, 24, 358-366.	2.3	9
30	Comparative Structural and Mechanical Studies on Polyamide 6 Knitted-Reinforced Single Polymer Composites Prepared by Different Reactive Processing Techniques. <i>Polymer Composites</i> , 2019, 40, E886.	2.3	9
31	Experimental Validation of Morphology Simulation in Glass Fibre Reinforced Polycarbonate Discs. <i>Journal of Reinforced Plastics and Composites</i> , 2001, 20, 452-465.	1.6	8
32	Performance and Friction Properties of Injection Hybrid Moulds with Stereolithography Moulding Zones. <i>Materials Science Forum</i> , 2006, 514-516, 1673-1677.	0.3	8
33	Is there any chance for polypropylene/clay nanocomposites in injection molding?. <i>EXPRESS Polymer Letters</i> , 2011, 5, 661-661.	1.1	8
34	Dynamic Behaviour of Rubber Compounds for Engine Mounts. <i>Key Engineering Materials</i> , 2002, 230-232, 303-306.	0.4	7
35	Assessment of weld line performance of PP/Talc moldings produced in hot runner injection molds. <i>Journal of Vinyl and Additive Technology</i> , 2007, 13, 159-165.	1.8	7
36	Friction Properties of Steel Fibre Reinforced Epoxy Composites Used in Moulding Blocks of Hybrid Moulds. <i>Materials Science Forum</i> , 2008, 587-588, 217-221.	0.3	7

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37	A study on microinjection moulding using moulding blocks by additive micromanufacturing. International Journal of Advanced Manufacturing Technology, 2013, 69, 2293-2299.	1.5	7
38	Uni- and biaxial impact behavior of double-gated nanoclay-reinforced polypropylene injection moldings. Polymer Engineering and Science, 2013, 53, 724-733.	1.5	7
39	Comparative Study, by Optical Techniques of the Interface Polymer/Steel in Replication Conditions. Materials Science Forum, 2004, 455-456, 467-471.	0.3	5
40	Predicting Shrinkage in Semi-Crystalline Injection Mouldings – The Influence of Pressure. Materials Science Forum, 2006, 514-516, 1501-1505.	0.3	5
41	Epoxy/steel fiber composites – A simple model to predict the fiber sedimentation. Polymer Composites, 2010, 31, 1378-1386.	2.3	5
42	Polypropylene/Clay Nanocomposites Produced by Shear Controlled Orientation in Injection Moulding: Deformation and Fracture Properties. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, 697-704.	0.6	5
43	Alternative materials in moulding elements of hybrid moulds: structural integrity and tribological aspects. International Journal of Advanced Manufacturing Technology, 2021, 113, 351-363.	1.5	5
44	Modeling of the consolidation of polycarbonate/carbon fiber towpregs. Polymer Composites, 1999, 20, 260-268.	2.3	4
45	Glass Fibre Content of PP Plates and their Properties: Part II: Tensile Mechanical Properties. Key Engineering Materials, 2002, 230-232, 52-55.	0.4	4
46	The use of subcomponents for the prediction of the mechanical behaviour of polypropylene injection moulded products. Makromolekulare Chemie Macromolecular Symposia, 1988, 20-21, 475-487.	0.6	3
47	Polymer flow dynamics in microimpressions: An experimental approach. Polymer Testing, 2013, 32, 567-574.	2.3	3
48	The Influence of Processing on the Aesthetic, Morphological and Mechanical Properties of Structural Foam Mouldings of High- Impact Polystyrene. Strojniski Vestnik/Journal of Mechanical Engineering, 2013, 59, 637-645.	0.6	3
49	Isothermal and non-isothermal consolidation of carbon fiber towpregs. Polymer Composites, 2001, 22, 71-79.	2.3	2
50	Influence of an Integral Blend of Silane Coupling Agents on the Wet Mechanical Properties of Epoxy Particulate-Filled Composites for Outdoor Electrical Insulation. Key Engineering Materials, 2002, 230-232, 235-238.	0.4	2
51	Optical properties of injection-molded polystyrene scintillators. II. Distribution of dopants. Journal of Applied Polymer Science, 2003, 88, 2714-2718.	1.3	2
52	Experimental Validation of Morphology Simulation in Glass Fibre Reinforced Polycarbonate Discs. , 0, .		2
53	Glass Fibre Contents of PP Plates and their Properties: Part I: Shrinkage and Changes in Time. Key Engineering Materials, 2002, 230-232, 48-51.	0.4	1
54	Optical properties of injection-molded polystyrene scintillators. I. Processing and optical properties. Journal of Applied Polymer Science, 2003, 88, 2706-2713.	1.3	1

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55	Effect of Melt Viscosity on the Ejection Force in Injection Moulds. Materials Science Forum, 2004, 455-456, 755-758.	0.3	1
56	Hybrid Moulds with Epoxy-based Composites – Effects of Materials and Processing on Shrinkage and Warpage. International Polymer Processing, 2011, 26, 256-264.	0.3	1
57	Characterization of Polypropylene Structural Foams for Large Part Applications. Materials Science Forum, 2012, 730-732, 981-987.	0.3	1
58	Characterization of Epoxy/Steel Fibres Composites for Hybrid Injection Moulds. Materials Science Forum, 0, 730-732, 277-282.	0.3	1
59	Influence of Graphite and Carbon Nanotubes on the Mechanical and Electrical Properties of Cast Epoxy Composites. Materials Science Forum, 2012, 730-732, 909-914.	0.3	1
60	Characterization of polymer behaviour in microchannels. , 2014, , .		1
61	Selection of thermoplastics. , 2021, , 87-140.		1
62	INFLUÊNCIA DE MATERIAIS ALTERNATIVOS NAS PROPRIEDADES DE PEÇAS TUBULARES NO CONTEXTO DE MOLDES PROTÓTIPOS DE INJEÇÃO. Tecnologia Em Metalurgia E Materiais, 2008, 4, 37-42.	0.1	1
63	Assessment of Injection Moulded Parts of PP/Nanoclay Produced with Hybrid Moulds. Materials Science Forum, 0, 730-732, 963-968.	0.3	0
64	Influence of Mesh Discretization on the Prediction of Polymer Flow Behaviour in Microcavities. Materials Science Forum, 0, 730-732, 525-530.	0.3	0
65	Mechanical design with plastics. , 2021, , 201-248.		0
66	Basic data required for designing plastic parts. , 2021, , 141-199.		0
67	Processing and product performance. , 2021, , 511-586.		0