MÃ³nica S A Oliveira

List of Publications by Year
in descending order

54 papers	1,437 citations	430874 18 h-index	345221 36 g-index
56 all docs	56 docs citations	56 times ranked	1681 citing authors

#	Article	IF	Citations
1	Life cycle assessment of shared and private use of automated and electric vehicles on interurban mobility. Applied Energy, 2022, 310, 118589.	10.1	11
2	Optimization to Assist Design and Analysis of Temperature Control Strategies for Injection Moldingâ€"A Review. Materials, 2022, 15, 4048.	2.9	7
3	Numerical model of a latent heat storage system for biological fluid administration â€“ Development and experimental validation. Journal of Energy Storage, 2022, 52, 104976.	8.1	0
4	Performance evaluation of convective heat transfer and laminar flow of non-Newtonian MWCNTs in a circular tube. Thermal Science and Engineering Progress, 2021, 25, 101029.	2.7	10
5	Forced convection heat transfer of non-Newtonian MWCNTs nanofluids in microchannels under laminar flow. International Communications in Heat and Mass Transfer, 2021, 127, 105495.	5.6	36
6	Computer-Aided Reengineering towards Plastic Part Failure Minimization. Materials, 2021, 14, 6303.	2.9	3
7	Can buildings be more intelligent than users?- The role of intelligent supervision concept integrated into building predictive control. Energy Reports, 2020, 6, 409-416.	5.1	13
8	Innovative polymeric airâ€"air heat recovery system â€" Life cycle assessment. Energy Reports, 2020, 6, 429-435.	5.1	3
9	One step forward toward smart city Utopia: Smart building energy management based on adaptive surrogate modelling. Energy and Buildings, 2020, 223, 110146.	6.7	31
10	Experimental and Numerical Study of Convective Heat Transfer and Laminar Flow of a MWCNTs Nanofluid in a Horizontal Tube. Journal of Nanofluids, 2019, 8, 132-142.	2.7	13
11	Thermoâ€mechanical characterization of shapeâ€memory polyurethane nanocomposites filled with carbon nanotubes and graphene nanosheets. Polymer Composites, 2018, 39, E1216.	4.6	11
12	Mechanical testing of micromolded plastic parts by nanoindentation. Polymer Engineering and Science, 2018, 58, 609-614.	3.1	1
13	Incorporation of Fiber Bragg Sensors for Shape Memory Polyurethanes Characterization. Sensors, 2017, 17, 2600.	3.8	5
14	On the Assessment of Viscosity Variability by Nanofluid Engineering: A Review. Journal of Nanofluids, 2016, 5, 23-36.	2.7	2
15	Experimental characterization of convective heat transfer with MWCNT based nanofluids under laminar flow conditions. Heat and Mass Transfer, 2014, 50, 65-74.	2.1	22
16	Critical analysis of the thermal conductivity models for CNT based nanofluids. International Journal of Thermal Sciences, 2014, 78, 65-76.	4.9	43
17	The effect of carbon nanotubes on viscoelastic behaviour of biomedical grade ultra-high molecular weight polyethylene. Composite Structures, 2013, 105, 263-268.	5.8	18
18	Integral approach for production of thermoplastics microparts by injection moulding. Journal of Materials Science, 2013, 48, 81-94.	3.7	17

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19	Polymer flow dynamics in microimpressions: An experimental approach. Polymer Testing, 2013, 32, 567-574.	4.8	3
20	Foaming of AA 6061 using multiple pieces of foamable precursor. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 438, 47-55.	4.7	34
21	Shape memory polyurethanes reinforced with carbon nanotubes. Composite Structures, 2013, 99, 105-111.	5.8	55
22	Transport and thermal properties of quaternary phosphonium ionic liquids and IoNanofluids. Journal of Chemical Thermodynamics, 2013, 64, 80-92.	2.0	97
23	Long-Term MWCNTs Nanofluids toward Heat Transfer Capability Improvement. Journal of Physical Chemistry C, 2013, 117, 12826-12834.	3.1	9
24	Numerical analysis of percolation formation in carbon nanotube based nanofluids. International Journal for Numerical Methods in Engineering, 2013, 95, 257-270.	2.8	7
25	Nanocrystalline Diamond Coating on Non-Planar Silicon Substrates. Journal of Nanoscience and Nanotechnology, 2012, 12, 6700-6706.	0.9	1
26	Assessing colloidal stability of long term MWCNT based nanofluids. Journal of Colloid and Interface Science, 2012, 381, 17-23.	9.4	61
27	The Use of Taguchi Technique to Optimize the Compression Moulding Cycle to Process Acetabular Cup Components. Journal of Nanoscience and Nanotechnology, 2011, 11, 5334-5339.	0.9	8
28	Tribological characterisation of carbon nanotubes/ultrahigh molecular weight polyethylene composites: the effect of sliding distance. International Journal of Surface Science and Engineering, 2010, 4, 305.	0.4	36
29	CVD diamond-coated steel inserts for thermoplastic mould toolsâ€"Characterization and preliminary performance evaluation. Journal of Materials Processing Technology, 2009, 209, 1085-1091.	6.3	25
30	Relative influence of injection molding processing conditions on HDPE acetabular cups dimensional stability. Journal of Materials Processing Technology, 2009, 209, 3894-3904.	6.3	32
31	Performance of sub-micron diamond films coated on mould inserts for plastic injection moulding. Journal of Materials Science, 2008, 43, 3392-3399.	3.7	5
32	Time-modulated chemical vapour deposition diamonf on mould making 2738 steel. Vacuum, 2008, 82, 1346-1349.	3.5	6
33	The influence of different tibial stem designs in load sharing and stability at the cementâ€“bone interface in revision TKA. Knee, 2008, 15, 227-232.	1.6	70
34	Diamond coatings on 3D structured steel. Diamond and Related Materials, 2008, 17, 1424-1428.	3.9	14
35	Dynamic Mechanical Analysis of Multi-Walled Carbon Nanotube/HDPE Composites. Journal of Nanoscience and Nanotechnology, 2008, 8, 4008-4012.	0.9	13
36	Polycrystalline diamond coatings on steel substrates. International Journal of Nanomanufacturing, 2008, 2, 99.	0.3	14

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37	Mechanical properties of high density polyethylene/carbon nanotube composites. Composites Science and Technology, 2007, 67, 3071-3077.	7.8	391
38	Mesoscale SPH modeling of fluid flow in isotropic porous media. Computer Physics Communications, 2007, 176, 471-480.	7.5	55
39	SPH simulation of transition to turbulence for planar shear flow subjected to a streamwise magnetic field. Journal of Computational Physics, 2006, 217, 485-501.	3.8	17
40	Diffusion of Critical Elements in Steel during Thermal Treatments in a Diamond Chemical Vapour Deposition Atmosphere. Defect and Diffusion Forum, 2006, 258-260, 270-275.	0.4	0
41	Theoretical Model Development for Nanofluids Thermal Effectiveness. Defect and Diffusion Forum, 2006, 258-260, 164-171.	0.4	1
42	Laminar natural convection in a vertical stack of parallelogrammic partial enclosures with variable geometry. International Journal of Heat and Mass Transfer, 2005, 48, 779-792.	4.8	34
43	SPH Simulation of Low Reynolds Number Planar Shear Flow and Heat Convection. Materialwissenschaft Und Werkstofftechnik, 2005, 36, 613-619.	0.9	8
44	SPH Simulations for Turbulence Control of Magnetohydrodynamic Poiseuille Flow. , 2005, , .		1
45	Numerical simulation of non-Darcian flows through spaces partially filled with a porous medium. Computers and Structures, 2004, 82, 1535-1541.	4.4	15
46	Control of laminar natural convection in differentially heated square enclosures using solid inserts at the corners. International Journal of Heat and Mass Transfer, 2003, 46, 3529-3537.	4.8	30
47	Quenching of aerospace forgings from high temperatures using air-assisted, atomized water sprays. Journal of Materials Engineering and Performance, 2002, 11, 80-85.	2.5	26
48	Neural network analysis of experimental data for air/water spray cooling. Journal of Materials Processing Technology, 2001, 113, 439-445.	6.3	30
49	Thermodynamic and Transport Properties of CNT-Water Based Nanofluids. Journal of Nano Research, 0, 11, 101-106.	0.8	37
50	Carbon Nanotubes â€“ Interactions with Biological Systems. , 0, , .		1
51	Enhanced UHMWPE Reinforced with MWCNT through Mechanical Ball-Milling. Defect and Diffusion Forum, 0, 312-315, 1238-1243.	0.4	27
52	Thermo-Mechanical Behaviour of Ultrahigh Molecular Weight Polyethylene-Carbon Nanotubes Composites under Different Cooling Techniques. Defect and Diffusion Forum, 0, 312-315, 331-340.	0.4	7
53	EG/CNTs Nanofluids Engineering and Thermo-Rheological Characterization. Journal of Nano Research, 0, 13, 69-74.	0.8	17
54	Influence of Mesh Discretization on the Prediction of Polymer Flow Behaviour in Microcavities. Materials Science Forum, 0, 730-732, 525-530.	0.3	0