

MÃ³nica S A Oliveira

List of Publications by Year in descending order

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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	Mechanical properties of high density polyethylene/carbon nanotube composites. <i>Composites Science and Technology</i> , 2007, 67, 3071-3077.	7.8	391
2	Transport and thermal properties of quaternary phosphonium ionic liquids and IoNanofluids. <i>Journal of Chemical Thermodynamics</i> , 2013, 64, 80-92.	2.0	97
3	The influence of different tibial stem designs in load sharing and stability at the cementâ€“bone interface in revision TKA. <i>Knee</i> , 2008, 15, 227-232.	1.6	70
4	Assessing colloidal stability of long term MWCNT based nanofluids. <i>Journal of Colloid and Interface Science</i> , 2012, 381, 17-23.	9.4	61
5	Mesoscale SPH modeling of fluid flow in isotropic porous media. <i>Computer Physics Communications</i> , 2007, 176, 471-480.	7.5	55
6	Shape memory polyurethanes reinforced with carbon nanotubes. <i>Composite Structures</i> , 2013, 99, 105-111.	5.8	55
7	Critical analysis of the thermal conductivity models for CNT based nanofluids. <i>International Journal of Thermal Sciences</i> , 2014, 78, 65-76.	4.9	43
8	Thermodynamic and Transport Properties of CNT-Water Based Nanofluids. <i>Journal of Nano Research</i> , 0, 11, 101-106.	0.8	37
9	Tribological characterisation of carbon nanotubes/ultrahigh molecular weight polyethylene composites: the effect of sliding distance. <i>International Journal of Surface Science and Engineering</i> , 2010, 4, 305.	0.4	36
10	Forced convection heat transfer of non-Newtonian MWCNTs nanofluids in microchannels under laminar flow. <i>International Communications in Heat and Mass Transfer</i> , 2021, 127, 105495.	5.6	36
11	Laminar natural convection in a vertical stack of parallelogrammic partial enclosures with variable geometry. <i>International Journal of Heat and Mass Transfer</i> , 2005, 48, 779-792.	4.8	34
12	Foaming of AA 6061 using multiple pieces of foamable precursor. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 438, 47-55.	4.7	34
13	Relative influence of injection molding processing conditions on HDPE acetabular cups dimensional stability. <i>Journal of Materials Processing Technology</i> , 2009, 209, 3894-3904.	6.3	32
14	One step forward toward smart city Utopia: Smart building energy management based on adaptive surrogate modelling. <i>Energy and Buildings</i> , 2020, 223, 110146.	6.7	31
15	Neural network analysis of experimental data for air/water spray cooling. <i>Journal of Materials Processing Technology</i> , 2001, 113, 439-445.	6.3	30
16	Control of laminar natural convection in differentially heated square enclosures using solid inserts at the corners. <i>International Journal of Heat and Mass Transfer</i> , 2003, 46, 3529-3537.	4.8	30
17	Enhanced UHMWPE Reinforced with MWCNT through Mechanical Ball-Milling. <i>Defect and Diffusion Forum</i> , 0, 312-315, 1238-1243.	0.4	27
18	Quenching of aerospace forgings from high temperatures using air-assisted, atomized water sprays. <i>Journal of Materials Engineering and Performance</i> , 2002, 11, 80-85.	2.5	26

#	ARTICLE	IF	CITATIONS
19	CVD diamond-coated steel inserts for thermoplastic mould tools” Characterization and preliminary performance evaluation. <i>Journal of Materials Processing Technology</i> , 2009, 209, 1085-1091.	6.3	25
20	Experimental characterization of convective heat transfer with MWCNT based nanofluids under laminar flow conditions. <i>Heat and Mass Transfer</i> , 2014, 50, 65-74.	2.1	22
21	The effect of carbon nanotubes on viscoelastic behaviour of biomedical grade ultra-high molecular weight polyethylene. <i>Composite Structures</i> , 2013, 105, 263-268.	5.8	18
22	SPH simulation of transition to turbulence for planar shear flow subjected to a streamwise magnetic field. <i>Journal of Computational Physics</i> , 2006, 217, 485-501.	3.8	17
23	EG/CNTs Nanofluids Engineering and Thermo-Rheological Characterization. <i>Journal of Nano Research</i> , 0, 13, 69-74.	0.8	17
24	Integral approach for production of thermoplastics microparts by injection moulding. <i>Journal of Materials Science</i> , 2013, 48, 81-94.	3.7	17
25	Numerical simulation of non-Darcian flows through spaces partially filled with a porous medium. <i>Computers and Structures</i> , 2004, 82, 1535-1541.	4.4	15
26	Diamond coatings on 3D structured steel. <i>Diamond and Related Materials</i> , 2008, 17, 1424-1428.	3.9	14
27	Polycrystalline diamond coatings on steel substrates. <i>International Journal of Nanomanufacturing</i> , 2008, 2, 99.	0.3	14
28	Dynamic Mechanical Analysis of Multi-Walled Carbon Nanotube/HDPE Composites. <i>Journal of Nanoscience and Nanotechnology</i> , 2008, 8, 4008-4012.	0.9	13
29	Can buildings be more intelligent than users?- The role of intelligent supervision concept integrated into building predictive control. <i>Energy Reports</i> , 2020, 6, 409-416.	5.1	13
30	Experimental and Numerical Study of Convective Heat Transfer and Laminar Flow of a MWCNTs Nanofluid in a Horizontal Tube. <i>Journal of Nanofluids</i> , 2019, 8, 132-142.	2.7	13
31	Thermo-mechanical characterization of shape-memory polyurethane nanocomposites filled with carbon nanotubes and graphene nanosheets. <i>Polymer Composites</i> , 2018, 39, E1216.	4.6	11
32	Life cycle assessment of shared and private use of automated and electric vehicles on interurban mobility. <i>Applied Energy</i> , 2022, 310, 118589.	10.1	11
33	Performance evaluation of convective heat transfer and laminar flow of non-Newtonian MWCNTs in a circular tube. <i>Thermal Science and Engineering Progress</i> , 2021, 25, 101029.	2.7	10
34	Long-Term MWCNTs Nanofluids toward Heat Transfer Capability Improvement. <i>Journal of Physical Chemistry C</i> , 2013, 117, 12826-12834.	3.1	9
35	SPH Simulation of Low Reynolds Number Planar Shear Flow and Heat Convection. <i>Materialwissenschaft Und Werkstofftechnik</i> , 2005, 36, 613-619.	0.9	8
36	The Use of Taguchi Technique to Optimize the Compression Moulding Cycle to Process Acetabular Cup Components. <i>Journal of Nanoscience and Nanotechnology</i> , 2011, 11, 5334-5339.	0.9	8

#	ARTICLE	IF	CITATIONS
37	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
38	Numerical analysis of percolation formation in carbon nanotube based nanofluids. International Journal for Numerical Methods in Engineering, 2013, 95, 257-270.	2.8	7
39	Optimization to Assist Design and Analysis of Temperature Control Strategies for Injection Moldingâ€”A Review. Materials, 2022, 15, 4048.	2.9	7
40	Time-modulated chemical vapour deposition diamond on mould making 2738 steel. Vacuum, 2008, 82, 1346-1349.	3.5	6
41	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
42	Incorporation of Fiber Bragg Sensors for Shape Memory Polyurethanes Characterization. Sensors, 2017, 17, 2600.	3.8	5
43	Polymer flow dynamics in microimpressions: An experimental approach. Polymer Testing, 2013, 32, 567-574.	4.8	3
44	Innovative polymeric airâ€”air heat recovery system â€” Life cycle assessment. Energy Reports, 2020, 6, 429-435.	5.1	3
45	Computer-Aided Reengineering towards Plastic Part Failure Minimization. Materials, 2021, 14, 6303.	2.9	3
46	On the Assessment of Viscosity Variability by Nanofluid Engineering: A Review. Journal of Nanofluids, 2016, 5, 23-36.	2.7	2
47	Theoretical Model Development for Nanofluids Thermal Effectiveness. Defect and Diffusion Forum, 2006, 258-260, 164-171.	0.4	1
48	Carbon Nanotubes â€” Interactions with Biological Systems. , 0, , .		1
49	Nanocrystalline Diamond Coating on Non-Planar Silicon Substrates. Journal of Nanoscience and Nanotechnology, 2012, 12, 6700-6706.	0.9	1
50	Mechanical testing of micromolded plastic parts by nanoindentation. Polymer Engineering and Science, 2018, 58, 609-614.	3.1	1
51	SPH Simulations for Turbulence Control of Magneto hydrodynamic Poiseuille Flow. , 2005, , .		1
52	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
53	Influence of Mesh Discretization on the Prediction of Polymer Flow Behaviour in Microcavities. Materials Science Forum, 0, 730-732, 525-530.	0.3	0
54	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