

# Jeferson Avila Souza

## List of Publications by Year in descending order

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73  
papers

493  
citations

687363

13  
h-index

839539

18  
g-index

73  
all docs

73  
docs citations

73  
times ranked

427  
citing authors

#	ARTICLE	IF	CITATIONS
1	ESTUDO NUMÉRICO DA INFLUÊNCIA DA RAZÃO DE AFASTAMENTO DAS PÂS NO ROTOR SAVONIUS. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2023, 6, .	0.0	0
2	VALIDAÇÃO DE DOIS MODELOS NUMÉRICOS (AXISSIMÉTRICO E TRIDIMENSIONAL) PARA SOLUÇÃO DE PROBLEMAS DE MOLDAGEM LÍQUIDA. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2023, 4, .	0.0	0
3	Evaluation of Flow-Mesh Influence in Resin Injection Processes. Applied Composite Materials, 2021, 28, 369-380.	2.5	0
4	Modeling of the resin transfer molding process including viscosity dependence with time and temperature. Polymer Composites, 2021, 42, 2795.	4.6	2
5	In-plane Permeability and Mechanical Properties of R-Glass/Aramid Hybrid Composites. Journal of Materials Engineering and Performance, 2020, 29, 4484-4492.	2.5	21
6	Numerical Analysis of the Influence of Empty Channels Design on Performance of Resin Flow in a Porous Plate. Applied Sciences (Switzerland), 2020, 10, 4054.	2.5	7
7	Thermal analysis of tubular arrangements submitted to external flow using constructal theory. International Communications in Heat and Mass Transfer, 2020, 111, 104458.	5.6	12
8	Computational modeling of resin infusion process applied to small vessel hulls. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	1.6	0
9	Experimental evaluation of temperature effect on the transverse permeability of a fibrous preform. Materials Today: Proceedings, 2019, 8, 731-737.	1.8	2
10	Experimental investigation of transverse permeability applied to liquid molding. Polymer Composites, 2019, 40, 3938-3946.	4.6	10
11	Evolutionary design algorithm for optimal light trapping in solar cells. Journal of Applied Physics, 2019, 125, 043105.	2.5	7
12	Overtopping device numerical study: Openfoam solution verification and evaluation of curved ramps performances. International Journal of Heat and Mass Transfer, 2019, 131, 411-423.	4.8	14
13	Coupling of the population balance equation into a two-phase model for the simulation of combined cooling and antisolvent crystallization using OpenFOAM. Computers and Chemical Engineering, 2019, 123, 246-256.	3.8	20
14	Determinação Numérico-Experimental da Permeabilidade Transversal em Problemas de RTM. Revista Cereus, 2019, 11, 81-95.	0.1	0
15	A new Constructal Theory based algorithm applied to thermal problems. International Journal of Thermal Sciences, 2018, 126, 118-124.	4.9	20
16	Geometric evaluation of the main operational principle of an overtopping wave energy converter by means of Constructal Design. Renewable Energy, 2018, 118, 727-741.	8.9	53
17	Construction of conductive pathways using Genetic Algorithms and Constructal Theory. International Journal of Thermal Sciences, 2018, 134, 200-207.	4.9	18
18	Transverse permeability determination and influence in resin flow through an orthotropic medium in the RTM process. Revista Materia, 2017, 22, .	0.2	6

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19	NUMERICAL ANALYSES OF OPENFOAM'S OVERTOPPING DEVICE SOLUTION. Revista De Engenharia Térmica, 2017, 16, 96.	0.2	1
20	Modelagem computacional de um conversor de energia das ondas em energia elétrica do tipo Coluna de Água Oscilante (CAO) considerando dados de estado do mar. Scientia Plena, 2017, 13, .	0.2	4
21	ESTUDO DOS PROCEDIMENTOS NUMÉRICOS PARA SIMULAÇÃO DE UM DISPOSITIVO DE GALGAMENTO. Revista Brasileira De Energias Renováveis, 2017, 6, .	0.1	1
22	Geometric Optimization of Solar Cells by Constructal Law. , 2017, , .		0
23	Three-dimensional numerical study of staggered finned circular and elliptic tubes in forced convection. , 2017, , .		0
24	SOLUÇÃO NUMÉRICA PARA RTM UTILIZANDO O OPENFOAM. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2017, 1, .	0.0	0
25	Conductive pathways construction using Genetic Algorithm and Constructal Design. , 2017, , .		0
26	OWC SIMULATION COMPARISON BETWEEN TURBULENT AND LAMINAR MODELS USING OPENFOAM CODE. , 2017, , .		0
27	Non-orthogonal components analysis of the permeability tensor in RTM reinforced medium. , 2017, , .		0
28	ANÁLISE NUMÉRICA DE UM DISPOSITIVO DE GALGAMENTO ONSHORE COMPARANDO A INFLUÊNCIA DE UMA ONDA MONOCROMÁTICA E DE UM ESPECTRO DE ONDAS. Revista Brasileira De Energias Renováveis, 2017, 6, .	0.1	2
29	AVALIAÇÃO GEOMÉTRICA DA CÂMARA DE UM DISPOSITIVO DE CONVERSÃO DE ENERGIA DAS ONDAS DO TIPO OWC PARA DIFERENTES COMPRIMENTOS DA BORDA FRONTAL. Revista Brasileira De Energias Renováveis, 2017, 6, .	0.1	1
30	Otimização construtal de uma cavidade multi-bifurcada para dissipação de calor. Scientia Plena, 2017, 13, .	0.2	0
31	Evaluation of mechanical properties of sandwich structures with polyethylene terephthalate and polyvinyl chloride core. Journal of Sandwich Structures and Materials, 2016, 18, 229-241.	3.5	17
32	Geometrical evaluation of a resin infusion process by means of constructal design. International Journal of Heat and Technology, 2016, 34, S101-S108.	0.6	2
33	Geometrical evaluation of a resin infusion process by means of constructal design. International Journal of Heat and Technology, 2016, 34, S101-S108.	0.6	2
34	IMPORTANCE OF THE INJECTION TIME IN MANUFACTURE OF COMPOSITES BY RTM PROCESS. , 2016, , .		0
35	Studies on thermal and viscoelastic properties of vinyl ester resin and its composites with glass fiber. Revista Materia, 2015, 20, 64-71.	0.2	13
36	Constructal design of an onshore overtopping device in real scale for two different depths. Marine Systems and Ocean Technology, 2015, 10, 120-129.	1.0	10

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37	A volume element model (VEM) for energy systems engineering. International Journal of Energy Research, 2015, 39, 46-74.	4.5	23
38	Modelagem computacional aplicada ao estudo de um trocador de calor solo-ar com diferentes configurações geométricas. Scientia Plena, 2015, 11, .	0.2	2
39	Estudo numérico da influência de condições de contorno na modelagem computacional de trocador de calor solo-ar. Scientia Plena, 2015, 11, .	0.2	4
40	Constructal Design de um dispositivo de galgamento onshore em escala real para uma profundidade fixa. Scientia Plena, 2015, 11, .	0.2	0
41	Estudo numérico de escoamentos turbulentos com convecção forçada em cavidades cilíndricas: comparação entre LES e RANS. Scientia Plena, 2015, 11, .	0.2	0
42	Computational modeling applied to the study of wave energy converters (WEC). Marine Systems and Ocean Technology, 2014, 9, 77-84.	1.0	4
43	Resin Transfer Molding Process: A Numerical Analysis. Defect and Diffusion Forum, 2014, 353, 44-49.	0.4	2
44	Three-dimensional launch simulation and active cooling analysis of a single-shot electromagnetic railgun. Simulation, 2014, 90, 1312-1327.	1.8	9
45	Temperature and Pressure Drop Model for Gaseous Helium Cooled Superconducting DC Cables. IEEE Transactions on Applied Superconductivity, 2013, 23, 5402005-5402005.	1.7	9
46	Resin transfer molding process: a numerical and experimental investigation. International Journal of Multiphysics, 2013, 7, 125-136.	0.1	13
47	Algebraic rectilinear model for multilayer resin transfer molding injection. Journal of Reinforced Plastics and Composites, 2013, 32, 3-15.	3.1	6
48	Numerical analysis of the hydropneumatic chamber shape influence in an oscillating water column (OWC) wave energy converter (WEC). Marine Systems and Ocean Technology, 2013, 8, 111-119.	1.0	0
49	Constructal Design of High-Conductivity Inserts. Understanding Complex Systems, 2013, , 91-111.	0.6	2
50	Notional all-electric ship systems integration thermal simulation and visualization. Simulation, 2012, 88, 1116-1128.	1.8	8
51	Resin Transfer Molding Process: Fundamentals, Numerical Computation and Experiments. Advanced Structured Materials, 2012, , 121-151.	0.5	6
52	Three-dimensional numerical modeling of RTM and LRTM processes. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2012, 34, 105-111.	1.6	17
53	Thermal Modeling of Helium Cooled High-Temperature Superconducting DC Transmission Cable. IEEE Transactions on Applied Superconductivity, 2011, 21, 947-952.	1.7	15
54	A numerical investigation of the resin flow front tracking applied to the RTM process. Materials Research, 2011, 14, 345-354.	1.3	6

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55	Thermodynamic optimization of fluidized catalytic cracking (FCC) units. International Journal of Heat and Mass Transfer, 2011, 54, 1187-1197.	4.8	12
56	Influence of calcium carbonate on RTM and RTM light processing and properties of molded composites. Journal of Reinforced Plastics and Composites, 2011, 30, 1213-1221.	3.1	27
57	The inverse methodology of parameter estimation for model adjustment, design, simulation, control and optimization of fluid catalytic cracking (FCC) risers. Journal of Chemical Technology and Biotechnology, 2009, 84, 343-355.	3.2	9
58	Hexahedral modular bioreactor for solid state bioprocesses. World Journal of Microbiology and Biotechnology, 2009, 25, 2173-2178.	3.6	5
59	Two-dimensional control volume modeling of the resin infiltration of a porous medium with a heterogeneous permeability tensor. Materials Research, 2008, 11, 261-268.	1.3	5
60	A two-dimensional model for simulation, control, and optimization of FCC risers. AIChE Journal, 2006, 52, 1895-1905.	3.6	23
61	Friction and heat transfer for inclined surfaces in relative motion to an air stream under buoyancy effect. International Journal of Heat and Fluid Flow, 2003, 24, 713-725.	2.4	6
62	Resin Transfer Molding Process: A Numerical Investigation. Defect and Diffusion Forum, 0, 334-335, 193-198.	0.4	6
63	Numerical Study of the Effect of the Relative Depth on the Overtopping Wave Energy Converters According to Constructal Design. Defect and Diffusion Forum, 0, 348, 232-244.	0.4	19
64	Numerical Analysis of the Resin Transfer Molding Process via PAM-RTM Software. Defect and Diffusion Forum, 0, 365, 88-93.	0.4	6
65	Design of Cooling Cavities by the Application of the Constructal Design. Defect and Diffusion Forum, 0, 372, 163-169.	0.4	0
66	A Simplified Model for Particle Internal Temperature Calculation in Fluidized Bed. Defect and Diffusion Forum, 0, 396, 135-144.	0.4	0
67	Numerical technique for determination of transverse permeability in RTM composites. , 0, , .		0
68	CONSTRUCTAL DESIGN OF AN ONSHORE OVERTOPPING DEVICE IN REAL SCALE FOR TWO DIFFERENT OCEAN WAVE PERIODS AND DIFFERENT AREAS OF THE RAMP. Anais Do ... Congresso Ibero-Latino-Americano De MÃ©todos Computacionais Em Engenharia, 0, , .	0.0	3
69	AVALIAÃ§Ã£o GEOMÃ©TRICA DE CANAIS RETANGULARES EM UM PROCESSO DE INFUSÃ£o POR RESINA. , 0, , .		0
70	NUMERICAL STUDY ABOUT THE INFLUENCE OF GEOMETRIC PARAMETERS ON THE AVAILABLE POWER IN A SOLAR CHIMNEY BY MEANS OF CONSTRUCTAL DESIGN. , 0, , .		0
71	Numerical Simulation and Solution Verification of an Overtopping Wave Energy Converter. Anais Do ... Congresso Ibero-Latino-Americano De MÃ©todos Computacionais Em Engenharia, 0, , .	0.0	1
72	THERMAL ANALYSIS AND GEOMETRIC OPTIMIZATION OF A TUBULAR ARRAY USING CONSTRUCTAL DESIGN. , 0, , .		0

#	ARTICLE	IF	CITATIONS
73	NUMERICAL ANALYSIS OF A SANDWICH COMPOSITE USING OPEN FOAM SOFTWARE. Journal of Materials Science and Engineering With Advanced Technology, 0, , 49-67.	0.1	0