

Jeferson Avila Souza

List of Publications by Year in descending order

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73
papers

493
citations

687363

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all docs

73
docs citations

73
times ranked

427
citing authors

#	ARTICLE	IF	CITATIONS
1	Geometric evaluation of the main operational principle of an overtopping wave energy converter by means of Constructal Design. <i>Renewable Energy</i> , 2018, 118, 727-741.	8.9	53
2	Influence of calcium carbonate on RTM and RTM light processing and properties of molded composites. <i>Journal of Reinforced Plastics and Composites</i> , 2011, 30, 1213-1221.	3.1	27
3	A two-dimensional model for simulation, control, and optimization of FCC risers. <i>AIChE Journal</i> , 2006, 52, 1895-1905.	3.6	23
4	A volume element model (VEM) for energy systems engineering. <i>International Journal of Energy Research</i> , 2015, 39, 46-74.	4.5	23
5	In-plane Permeability and Mechanical Properties of R-Glass/Aramid Hybrid Composites. <i>Journal of Materials Engineering and Performance</i> , 2020, 29, 4484-4492.	2.5	21
6	A new Constructal Theory based algorithm applied to thermal problems. <i>International Journal of Thermal Sciences</i> , 2018, 126, 118-124.	4.9	20
7	Coupling of the population balance equation into a two-phase model for the simulation of combined cooling and antisolvent crystallization using OpenFOAM. <i>Computers and Chemical Engineering</i> , 2019, 123, 246-256.	3.8	20
8	Numerical Study of the Effect of the Relative Depth on the Overtopping Wave Energy Converters According to Constructal Design. <i>Defect and Diffusion Forum</i> , 0, 348, 232-244.	0.4	19
9	Construction of conductive pathways using Genetic Algorithms and Constructal Theory. <i>International Journal of Thermal Sciences</i> , 2018, 134, 200-207.	4.9	18
10	Three-dimensional numerical modeling of RTM and LRTM processes. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2012, 34, 105-111.	1.6	17
11	Evaluation of mechanical properties of sandwich structures with polyethylene terephthalate and polyvinyl chloride core. <i>Journal of Sandwich Structures and Materials</i> , 2016, 18, 229-241.	3.5	17
12	Thermal Modeling of Helium Cooled High-Temperature Superconducting DC Transmission Cable. <i>IEEE Transactions on Applied Superconductivity</i> , 2011, 21, 947-952.	1.7	15
13	Overtopping device numerical study: Openfoam solution verification and evaluation of curved ramps performances. <i>International Journal of Heat and Mass Transfer</i> , 2019, 131, 411-423.	4.8	14
14	Resin transfer molding process: a numerical and experimental investigation. <i>International Journal of Multiphysics</i> , 2013, 7, 125-136.	0.1	13
15	Studies on thermal and viscoelastic properties of vinyl ester resin and its composites with glass fiber. <i>Revista Materia</i> , 2015, 20, 64-71.	0.2	13
16	Thermodynamic optimization of fluidized catalytic cracking (FCC) units. <i>International Journal of Heat and Mass Transfer</i> , 2011, 54, 1187-1197.	4.8	12
17	Thermal analysis of tubular arrangements submitted to external flow using constructal theory. <i>International Communications in Heat and Mass Transfer</i> , 2020, 111, 104458.	5.6	12
18	Constructal design of an onshore overtopping device in real scale for two different depths. <i>Marine Systems and Ocean Technology</i> , 2015, 10, 120-129.	1.0	10

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19	Experimental investigation of transverse permeability applied to liquid molding. <i>Polymer Composites</i> , 2019, 40, 3938-3946.	4.6	10
20	The inverse methodology of parameter estimation for model adjustment, design, simulation, control and optimization of fluid catalytic cracking (FCC) risers. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 343-355.	3.2	9
21	Temperature and Pressure Drop Model for Gaseous Helium Cooled Superconducting DC Cables. <i>IEEE Transactions on Applied Superconductivity</i> , 2013, 23, 5402005-5402005.	1.7	9
22	Three-dimensional launch simulation and active cooling analysis of a single-shot electromagnetic railgun. <i>Simulation</i> , 2014, 90, 1312-1327.	1.8	9
23	Notional all-electric ship systems integration thermal simulation and visualization. <i>Simulation</i> , 2012, 88, 1116-1128.	1.8	8
24	Evolutionary design algorithm for optimal light trapping in solar cells. <i>Journal of Applied Physics</i> , 2019, 125, 043105.	2.5	7
25	Numerical Analysis of the Influence of Empty Channels Design on Performance of Resin Flow in a Porous Plate. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4054.	2.5	7
26	Friction and heat transfer for inclined surfaces in relative motion to an air stream under buoyancy effect. <i>International Journal of Heat and Fluid Flow</i> , 2003, 24, 713-725.	2.4	6
27	A numerical investigation of the resin flow front tracking applied to the RTM process. <i>Materials Research</i> , 2011, 14, 345-354.	1.3	6
28	Resin Transfer Molding Process: Fundamentals, Numerical Computation and Experiments. <i>Advanced Structured Materials</i> , 2012, , 121-151.	0.5	6
29	Resin Transfer Molding Process: A Numerical Investigation. <i>Defect and Diffusion Forum</i> , 0, 334-335, 193-198.	0.4	6
30	Algebraic rectilinear model for multilayer resin transfer molding injection. <i>Journal of Reinforced Plastics and Composites</i> , 2013, 32, 3-15.	3.1	6
31	Numerical Analysis of the Resin Transfer Molding Process via PAM-RTM Software. <i>Defect and Diffusion Forum</i> , 0, 365, 88-93.	0.4	6
32	Transverse permeability determination and influence in resin flow through an orthotropic medium in the RTM process. <i>Revista Materia</i> , 2017, 22, .	0.2	6
33	Two-dimensional control volume modeling of the resin infiltration of a porous medium with a heterogeneous permeability tensor. <i>Materials Research</i> , 2008, 11, 261-268.	1.3	5
34	Hexahedral modular bioreactor for solid state bioprocesses. <i>World Journal of Microbiology and Biotechnology</i> , 2009, 25, 2173-2178.	3.6	5
35	Computational modeling applied to the study of wave energy converters (WEC). <i>Marine Systems and Ocean Technology</i> , 2014, 9, 77-84.	1.0	4
36	Estudo numérico da influência de condições de contorno na modelagem computacional de trocador de calor solo-ar. <i>Scientia Plena</i> , 2015, 11, .	0.2	4

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37	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
38	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 Máquinas Computacionais Em Engenharia, 0, , .	0.0	3
39	Resin Transfer Molding Process: A Numerical Analysis. Defect and Diffusion Forum, 2014, 353, 44-49.	0.4	2
40	Experimental evaluation of temperature effect on the transverse permeability of a fibrous preform. Materials Today: Proceedings, 2019, 8, 731-737.	1.8	2
41	Modeling of the resin transfer molding process including viscosity dependence with time and temperature. Polymer Composites, 2021, 42, 2795.	4.6	2
42	Modelagem computacional aplicada ao estudo de um trocador de calor solo-ar com diferentes configurações geométricas. Scientia Plena, 2015, 11, .	0.2	2
43	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
44	Constructal Design of High-Conductivity Inserts. Understanding Complex Systems, 2013, , 91-111.	0.6	2
45	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
46	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
47	NUMERICAL ANALYSES OF OPENFOAM'S OVERTOPPING DEVICE SOLUTION. Revista De Engenharia Térmica, 2017, 16, 96.	0.2	1
48	ESTUDO DOS PROCEDIMENTOS NUMÉRICOS PARA SIMULAÇÃO DE UM DISPOSITIVO DE GALGAMENTO. Revista Brasileira De Energias Renováveis, 2017, 6, .	0.1	1
49	Numerical Simulation and Solution Verification of an Overtopping Wave Energy Converter. Anais Do ... Congresso Ibero-Latino-Americano De Máquinas Computacionais Em Engenharia, 0, , .	0.0	1
50	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
51	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
52	Design of Cooling Cavities by the Application of the Constructal Design. Defect and Diffusion Forum, 0, 372, 163-169.	0.4	0
53	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
54	A Simplified Model for Particle Internal Temperature Calculation in Fluidized Bed. Defect and Diffusion Forum, 0, 396, 135-144.	0.4	0

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55	Evaluation of Flow-Mesh Influence in Resin Injection Processes. Applied Composite Materials, 2021, 28, 369-380.	2.5	0
56	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
57	Numerical technique for determination of transverse permeability in RTM composites. , 0, , .		0
58	AVALIAÇÃO GEOMÉTRICA DE CANAIS RETANGULARES EM UM PROCESSO DE INFUSÃO POR RESINA. , 0, , .		0
59	NUMERICAL STUDY ABOUT THE INFLUENCE OF GEOMETRIC PARAMETERS ON THE AVAILABLE POWER IN A SOLAR CHIMNEY BY MEANS OF CONSTRUCTAL DESIGN. , 0, , .		0
60	THERMAL ANALYSIS AND GEOMETRIC OPTIMIZATION OF A TUBULAR ARRAY USING CONSTRUCTAL DESIGN. , 0, , .		0
61	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
62	Constructal Design de um dispositivo de galgamento onshore em escala real para uma profundidade fixa. Scientia Plena, 2015, 11, .	0.2	0
63	Estudo numérico de escoamentos turbulentos com convecção forçada em cavidades cilíndricas: comparação entre LES e RANS. Scientia Plena, 2015, 11, .	0.2	0
64	IMPORTANCE OF THE INJECTION TIME IN MANUFACTURE OF COMPOSITES BY RTM PROCESS. , 2016, , .		0
65	Geometric Optimization of Solar Cells by Constructal Law. , 2017, , .		0
66	Three-dimensional numerical study of staggered finned circular and elliptic tubes in forced convection. , 2017, , .		0
67	SOLUÇÃO NUMÉRICA PARA RTM UTILIZANDO O OPENFOAM. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2017, 1, .	0.0	0
68	Conductive pathways construction using Genetic Algorithm and Constructal Design. , 2017, , .		0
69	OWC SIMULATION COMPARISON BETWEEN TURBULENT AND LAMINAR MODELS USING OPENFOAM CODE. , 2017, , .		0
70	Non-orthogonal components analysis of the permeability tensor in RTM reinforced medium. , 2017, , .		0
71	Otimização construtal de uma cavidade multi-bifurcada para dissipação de calor. Scientia Plena, 2017, 13, .	0.2	0
72	Determinação Numérico-Experimental da Permeabilidade Transversal em Problemas de RTM. Revista Cereus, 2019, 11, 81-95.	0.1	0

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73	VALIDAÇÃO DE DOIS MODELOS NUMÉRICOS (AXISSIMÉTRICO E TRIDIMENSIONAL) PARA SOLUÇÃO DE PROBLEMAS DE MOLDAGEM LÂQUIDA. Revista Mundi Engenharia Tecnologia E Gestão (ISSN 2525-4782), 2023, 4, .	0.0	0