Eduardo SuÃ¡rez

List of Publications by Year
in descending order

34	363	840776 11	839539 18
papers	citations	h-index	g-index

36	36	36	265
all docs	docs citations	times ranked	citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical modelling of osteocyte growth on different bone tissue scaffolds. Computer Methods in Biomechanics and Biomedical Engineering, 2022, 25, 641-655.	1.6	3
2	Evolution of EGR cooler deposits under hydrocarbon condensation: Analysis of local thickness, roughness, and fouling layer density. International Journal of Thermal Sciences, 2021, 161, 106744.	4.9	11
3	FSI modeling on the effect of artery-aneurysm thickness and coil embolization in patient cases. Computer Methods and Programs in Biomedicine, 2021, 206, 106148.	4.7	8
4	Assessment of the methodology for the CFD simulation of the flight of a quadcopter UAV. Journal of Wind Engineering and Industrial Aerodynamics, 2021, 218, 104776.	3.9	19
5	Development of a Computational Fluid Dynamics Model for Predicting Fouling Process Using Dynamic Mesh Model. Heat Transfer Engineering, 2020, 41, 199-207.	1.9	15
6	CFD analysis of the aerodynamic effects on the stability of the flight of a quadcopter UAV in the proximity of walls and ground. Journal of Wind Engineering and Industrial Aerodynamics, 2020, 206, 104378.	3.9	37
7	Fouling evolution on ribbed surfaces under EGR dry soot conditions: Experimental measurements and 3D model validation. International Journal of Thermal Sciences, 2020, 151, 106271.	4.9	12
8	New methodology for CFD simulations of compact evaporators used in automotive ORC systems. International Journal of Thermal Sciences, 2019, 143, 14-26.	4.9	5
9	Development of a Pattern Recognition Methodology with Thermography and Implementation in an Experimental Study of a Boiler for a WHRS-ORC. Sensors, 2019, 19, 1680.	3.8	1
10	Analysis of the volume of fluid (VOF) method for the simulation of the mucus clearance process with CFD. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 547-566.	1.6	11
11	Effect of realistic ballasted track in the underbody flow of a high-speed train via CFD simulations. Journal of Wind Engineering and Industrial Aerodynamics, 2019, 184, 1-9.	3.9	15
12	DEVELOPMENT OF AN ONLINE TOOL BASED ON CFD AND OBJECT-ORIENTED PROGRAMMING TO SUPPORT TEACHING FLUID MECHANICS. , 2019, , .		0
13	CFD Simulation of the Oral-Nasal Flow Partitioning During a Breathing Cycle Based on the Soft Palate Movement. Smart Innovation, Systems and Technologies, 2018, , 35-45.	0.6	2
14	CFD transient simulation of the cough clearance process using an Eulerian wall film model. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 142-152.	1.6	21
15	Numerical methodology for evaluating the effect of sleepers in the underbody flow of a high-speed train. Journal of Wind Engineering and Industrial Aerodynamics, 2017, 167, 140-147.	3.9	35
16	Glottis effects on the cough clearance process simulated with a CFD dynamic mesh and Eulerian wall film model. Computer Methods in Biomechanics and Biomedical Engineering, 2017, 20, 1326-1338.	1.6	14
17	CFD Transient Simulation of a Breathing Cycle in an Oral-Nasal Extrathoracic Model. Journal of Applied Fluid Mechanics, 2017, 10, 777-784.	0.2	4
18	On the effect of surface roughness and material on the subcooled flow boiling of water: Experimental study and global correlation. Experimental Thermal and Fluid Science, 2015, 64, 114-124.	2.7	28

#	Article	IF	Citations
19	Numerical study of the impact of windblown sand particles on a high-speed train. Journal of Wind Engineering and Industrial Aerodynamics, 2015, 145, 87-93.	3.9	41
20	Aerodynamic Simulations of High-Speed Trains for the Technical Specification of Interoperability. International Journal of Railway Technology, 2015, 4, 89-102.	0.3	0
21	The simulation of a Rankine based Waste Heat Recovery system for a heavy duty diesel engine. WIT Transactions on Engineering Sciences, 2014, , .	0.0	1
22	Experimental study of soot particle fouling on ribbed plates: Applicability of the critical local wall shear stress criterion. Experimental Thermal and Fluid Science, 2013, 44, 364-373.	2.7	20
23	Development of a Predictive CFD Fouling Model for Diesel Engine Exhaust Gas Systems. Heat Transfer Engineering, 2013, 34, 674-682.	1.9	36
24	CFD simulation of a CT scan oral-nasal extrathoracic model. WIT Transactions on Engineering Sciences, 2013, , .	0.0	3
25	CFD implementation and experimental validation of the Chen model for heat transfer in nucleate boiling. , 2013, , .		3
26	Experimental evaluation of the critical local wall shear stress around cylindrical probes fouled by diesel exhaust gases. Experimental Thermal and Fluid Science, 2012, 38, 85-93.	2.7	13
27	Eulerian model for the prediction of nucleate boiling of refrigerant in heat exchangers. , 2010, , .		1
28	Computational model for particle deposition in turbulent gas flows for CFD codes. , 2010, , .		1
29	Pressure Drop in Protective Metal Meshes in Clean Low EGR Loop. , 0, , .		0
30	CFD Numerical Simulation of HP-EGR Cooler Performance Under Pulsating Engine Conditions. , 0, , .		0
31	Numerical Modelling of Fouling Process in EGR System: A Review. , 0, , .		1
32	Aerodynamic Simulations of High-Speed Trains. , 0, , .		1
33	Comparison of Turbulent Models applied to the Aerodynamics of a High Speed Train. , 0, , .		0
34	A Computational Fluid Dynamics Comparison of the Underflow of Different Commercial High-Speed Trains. , 0, , .		0