Raul Anton

List of Publications by Year
in descending order

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56	600	566801	713013
papers	citations	15	21
		h-index	g-index

56	56	56	506
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental study of fibre breakup and shot formation in melt blowing nozzle designs. Journal of Industrial Textiles, 2022, 51, 3895S-3922S.	1.1	6
2	Experimental study on the hot-melt adhesive pattern produced by melt blowing nozzle designs. Journal of Industrial Textiles, 2022, 51, 3923S-3948S.	1.1	4
3	Computational Fluid Dynamics Modeling of Liver Radioembolization: A Review. CardioVascular and Interventional Radiology, 2022, 45, 12-20.	0.9	13
4	â€œComputational study of a novel catheter for liver radioembolizationâ€• International Journal for Numerical Methods in Biomedical Engineering, 2022, , e3577.	1.0	2
5	How Could 90Y-Loaded Microsphere Distribution Be Optimized?. CardioVascular and Interventional Radiology, 2022, 45, 970-971.	0.9	1
6	A proof-of-concept study of the in-vivo validation of a computational fluid dynamics model of personalized radioembolization. Scientific Reports, 2021, 11, 3895.	1.6	12
7	Compact Model of a Screen under Fan-Induced Swirl Conditions Using a Porous Media Approach. Applied Sciences (Switzerland), 2021, 11, 1999.	1.3	2
8	CFD Simulations of Radioembolization: A Proof-of-Concept Study on the Impact of the Hepatic Artery Tree Truncation. Mathematics, 2021, 9, 839.	1.1	5
9	In Vitro Model for Simulating Drug Delivery during Balloon-Occluded Transarterial Chemoembolization. Biology, 2021, 10, 1341.	1.3	2
10	On the importance of spiralâ€flow inflow boundary conditions when using idealized artery geometries in the analysis of liver radioembolization: A parametric study. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3337.	1.0	3
11	Liver Radioembolization: An Analysis of Parameters that Influence the Catheter-Based Particle-Delivery via CFD. Current Medicinal Chemistry, 2020, 27, 1600-1615.	1.2	15
12	ENERGY EFFICIENCY OF A RAILWAY CARRIAGE AIR CONDITIONING SYSTEM: PARAMETRIC ANALYSIS AND OPTIMIZATION THROUGH DoE TECHNIQUES. Dyna (Spain), 2020, 95, 640-645.	0.1	0
13	A methodology for numerically analysing the hepatic artery haemodynamics during B-TACE: a proof of concept. Computer Methods in Biomechanics and Biomedical Engineering, 2019, 22, 518-532.	0.9	4
14	Optimization of thermal management systems for vertical elevation applications powered by lithium-ion batteries. Applied Thermal Engineering, 2019, 147, 155-166.	3.0	11
15	Numerical zeroâ€dimensional hepatic artery hemodynamics model for balloonâ€occluded transarterial chemoembolization. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2983.	1.0	11
16	Geometric surrogates of abdominal aortic aneurysm wall mechanics. Medical Engineering and Physics, 2018, 59, 43-49.	0.8	16
17	Computational particleâ€“haemodynamics analysis of liver radioembolization pretreatment as an actual treatment surrogate. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02791.	1.0	19
18	A Methodology for Verifying Abdominal Aortic Aneurysm Wall Stress. Journal of Biomechanical Engineering, 2017, 139, .	0.6	9

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19	Mathematical modeling and numerical simulation of surfactant delivery within a physical model of the neonatal trachea for different aerosol characteristics. Aerosol Science and Technology, 2017, 51, 168-177.	1.5	6
20	A methodology for developing anisotropic AAA phantoms via additive manufacturing. Journal of Biomechanics, 2017, 57, 161-166.	0.9	9
21	The role of angledâ€tip microcatheter and microsphere injection velocity in liver radioembolization: A computational particleâ€“hemodynamics study. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2895.	1.0	15
22	The Relationship Between Surface Curvature and Abdominal Aortic Aneurysm Wall Stress. Journal of Biomechanical Engineering, 2017, 139, .	0.6	13
23	INFLUENCE OF THE LOCAL MEAN CURVATURE ON THE ABDOMINAL AORTIC ANEURYSM STRESS DISTRIBUTION. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750106.	0.3	0
24	A methodology for assessing local bifurcated blood vessel shape variations. Biomedical Physics and Engineering Express, 2016, 2, 015001.	0.6	0
25	Computational assessment of the effects of the catheter type on particleâ€“hemodynamics during liver radioembolization. Journal of Biomechanics, 2016, 49, 3705-3713.	0.9	17
26	Numerical investigation of liver radioembolization via computational particleâ€“hemodynamics: The role of the microcatheter distal direction and microsphere injection point and velocity. Journal of Biomechanics, 2016, 49, 3714-3721.	0.9	12
27	Anisotropic abdominal aortic aneurysm replicas with biaxial material characterization. Medical Engineering and Physics, 2016, 38, 1505-1512.	0.8	3
28	Liver cancer arterial perfusion modelling and CFD boundary conditions methodology: a case study of the haemodynamics of a patientâ€specific hepatic artery in literatureâ€based healthy and tumourâ€bearing liver scenarios. International Journal for Numerical Methods in Biomedical Engineering, 2016, 32, e02764.	1.0	26
29	Physiological outflow boundary conditions methodology for small arteries with multiple outlets: A patient-specific hepatic artery haemodynamics case study. Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine, 2015, 229, 291-306.	1.0	11
30	Experimental and computational investigation of the patient-specific abdominal aortic aneurysm pressure field. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 981-992.	0.9	27
31	The influence of a non-linear lecturing approach on student attention: Implementation and assessment. Ingenieria E Investigacion, 2015, 35, 115-120.	0.2	2
32	In Vitro Surfactant and Perfluorocarbon Aerosol Deposition in a Neonatal Physical Model of the Upper Conducting Airways. PLoS ONE, 2014, 9, e106835.	1.1	10
33	Effects of Intraluminal Thrombus on Patient-Specific Abdominal Aortic Aneurysm Hemodynamics via Stereoscopic Particle Image Velocity and Computational Fluid Dynamics Modeling. Journal of Biomechanical Engineering, 2014, 136, 031001.	0.6	33
34	Abdominal Aortic Aneurysm: From Clinical Imaging to Realistic Replicas. Journal of Biomechanical Engineering, 2014, 136, 014502.	0.6	13
35	Influence of Geometrical Parameters in The Downstream Flow of A Screen Under Fan-Induced Swirl Conditions. Engineering Applications of Computational Fluid Mechanics, 2014, 8, 623-638.	1.5	2
36	Zonal thermal model of the ventilation of underground transformer substations: Development and parametric study. Applied Thermal Engineering, 2014, 62, 215-228.	3.0	19

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37	PIV measurements and a CFD benchmark study of a screen under fan-induced swirl conditions. International Journal of Heat and Fluid Flow, 2014, 46, 43-60.	1.1	3
38	Effect of the spray cone angle in the spray cooling with R134a. Experimental Thermal and Fluid Science, 2013, 50, 127-138.	1.5	26
39	Computational parametric study of an impinging jet in a cross-flow configuration for electronics cooling applications. Applied Thermal Engineering, 2013, 52, 428-438.	3.0	26
40	Numerical modelling of the natural ventilation of underground transformer substations. Applied Thermal Engineering, 2013, 51, 852-863.	3.0	26
41	Influence of surface roughness on a spray cooling system with R134a. Part I: Heat transfer measurements. Experimental Thermal and Fluid Science, 2013, 46, 183-190.	1.5	29
42	Influence of surface roughness on a spray cooling system with R134a. Part II: Film thickness measurements. Experimental Thermal and Fluid Science, 2013, 48, 73-80.	1.5	23
43	Towards the efficient refrigeration of transformer substations by means of computational fluid dynamics. , 2013, , .		1
44	Performance of Axial Fans in Close Proximity to the Electromagnetic Compatibility Screens. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.2	5
45	Experimental study of the turbulent flow around a single wall-mounted cube exposed to a cross-flow and an impinging jet. International Journal of Heat and Fluid Flow, 2012, 38, 50-71.	1.1	26
46	ON THE DISINTEGRATION OF FAN-SHAPED LIQUID SHEETS. Atomization and Sprays, 2012, 22, 733-755.	0.3	2
47	Film Thickness and Heat Transfer Measurements in a Spray Cooling System With R134a. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.2	21
48	Linear spatial instability of viscous flow of a liquid sheet through gas. Physics of Fluids, 2010, 22, .	1.6	16
49	Analysis of the performance reduction of axial fans in close proximity to EMC screens. , 2010, , .		0
50	Experimental study of the turbulent flow around a single wall-mounted prism obstacle placed in a cross-flow and an impinging jet. WIT Transactions on Engineering Sciences, 2010, , .	0.0	1
51	Characterization of fan spray atomizers through numerical simulation. International Journal of Heat and Fluid Flow, 2009, 30, 339-355.	1.1	19
52	Detailed CFD Modelling of EMC Screens for Radio Base Stations: A Parametric Study. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 145-155.	1.4	7
53	Detailed CFD Modeling of EMC Screen for Radio Base Stations: A Benchmark Study. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 754-763.	1.4	6
54	Compact CFD Modeling of EMC Screen for Radio Base Stations: A Porous Media Approach and a Correlation for the Directional Loss Coefficients. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 875-885.	1.4	6

#	Article	IF	Citations
55	Modeling of air conditioning systems for cooling of data centers. , 0, , .		4
56	Gibeleko erradioenbolizazioaren CFD simulazioak: odolaren biskositatearen eragina gibeleko hemodinamikan eta mikroesferen distribuzioan. Ekaia (journal), 0, , .	0.0	0