Raul Anton

List of Publications by Year in descending order

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PALL ANTON

#	Article	IF	CITATIONS
1	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.	1.3	33
2	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.	2.7	29
3	Experimental and computational investigation of the patient-specific abdominal aortic aneurysm pressure field. Computer Methods in Biomechanics and Biomedical Engineering, 2015, 18, 981-992.	1.6	27
4	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.	2.4	26
5	Effect of the spray cone angle in the spray cooling with R134a. Experimental Thermal and Fluid Science, 2013, 50, 127-138.	2.7	26
6	Computational parametric study of an impinging jet in a cross-flow configuration for electronics cooling applications. Applied Thermal Engineering, 2013, 52, 428-438.	6.0	26
7	Numerical modelling of the natural ventilation of underground transformer substations. Applied Thermal Engineering, 2013, 51, 852-863.	6.0	26
8	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.	2.1	26
9	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.	2.7	23
10	Film Thickness and Heat Transfer Measurements in a Spray Cooling System With R134a. Journal of Electronic Packaging, Transactions of the ASME, 2011, 133, .	1.8	21
11	Characterization of fan spray atomizers through numerical simulation. International Journal of Heat and Fluid Flow, 2009, 30, 339-355.	2.4	19
12	Zonal thermal model of the ventilation of underground transformer substations: Development and parametric study. Applied Thermal Engineering, 2014, 62, 215-228.	6.0	19
13	Computational particle–haemodynamics analysis of liver radioembolization pretreatment as an actual treatment surrogate. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e02791.	2.1	19
14	Computational assessment of the effects of the catheter type on particle–hemodynamics during liver radioembolization. Journal of Biomechanics, 2016, 49, 3705-3713.	2.1	17
15	Linear spatial instability of viscous flow of a liquid sheet through gas. Physics of Fluids, 2010, 22, .	4.0	16
16	Geometric surrogates of abdominal aortic aneurysm wall mechanics. Medical Engineering and Physics, 2018, 59, 43-49.	1.7	16
17	The role of angledâ€tip microcatheter and microsphere injection velocity in liver radioembolization: A computational particle–hemodynamics study. International Journal for Numerical Methods in Biomedical Engineering, 2017, 33, e2895.	2.1	15
18	Liver Radioembolization: An Analysis of Parameters that Influence the Catheter-Based Particle-Delivery via CFD. Current Medicinal Chemistry, 2020, 27, 1600-1615.	2.4	15

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19	Abdominal Aortic Aneurysm: From Clinical Imaging to Realistic Replicas. Journal of Biomechanical Engineering, 2014, 136, 014502.	1.3	13
20	The Relationship Between Surface Curvature and Abdominal Aortic Aneurysm Wall Stress. Journal of Biomechanical Engineering, 2017, 139, .	1.3	13
21	Computational Fluid Dynamics Modeling of Liver Radioembolization: A Review. CardioVascular and Interventional Radiology, 2022, 45, 12-20.	2.0	13
22	Numerical investigation of liver radioembolization via computational particle–hemodynamics: The role of the microcatheter distal direction and microsphere injection point and velocity. Journal of Biomechanics, 2016, 49, 3714-3721.	2.1	12
23	A proof-of-concept study of the in-vivo validation of a computational fluid dynamics model of personalized radioembolization. Scientific Reports, 2021, 11, 3895.	3.3	12
24	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.	1.8	11
25	Numerical zeroâ€dimensional hepatic artery hemodynamics model for balloonâ€occluded transarterial chemoembolization. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2983.	2.1	11
26	Optimization of thermal management systems for vertical elevation applications powered by lithium-ion batteries. Applied Thermal Engineering, 2019, 147, 155-166.	6.0	11
27	In Vitro Surfactant and Perfluorocarbon Aerosol Deposition in a Neonatal Physical Model of the Upper Conducting Airways. PLoS ONE, 2014, 9, e106835.	2.5	10
28	A Methodology for Verifying Abdominal Aortic Aneurysm Wall Stress. Journal of Biomechanical Engineering, 2017, 139, .	1.3	9
29	A methodology for developing anisotropic AAA phantoms via additive manufacturing. Journal of Biomechanics, 2017, 57, 161-166.	2.1	9
30	Detailed CFD Modelling of EMC Screens for Radio Base Stations: A Parametric Study. IEEE Transactions on Components and Packaging Technologies, 2009, 32, 145-155.	1.3	7
31	Detailed CFD Modeling of EMC Screen for Radio Base Stations: A Benchmark Study. IEEE Transactions on Components and Packaging Technologies, 2007, 30, 754-763.	1.3	6
32	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.	1.3	6
33	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.	3.1	6
34	Experimental study of fibre breakup and shot formation in melt blowing nozzle designs. Journal of Industrial Textiles, 2022, 51, 3895S-3922S.	2.4	6
35	Performance of Axial Fans in Close Proximity to the Electromagnetic Compatibility Screens. Journal of Electronic Packaging, Transactions of the ASME, 2012, 134, .	1.8	5
36	CFD Simulations of Radioembolization: A Proof-of-Concept Study on the Impact of the Hepatic Artery Tree Truncation. Mathematics, 2021, 9, 839.	2.2	5

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37	Modeling of air conditioning systems for cooling of data centers. , 0, , .		4
38	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.	1.6	4
39	Experimental study on the hot-melt adhesive pattern produced by melt blowing nozzle designs. Journal of Industrial Textiles, 2022, 51, 3923S-3948S.	2.4	4
40	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.	2.4	3
41	Anisotropic abdominal aortic aneurysm replicas with biaxial material characterization. Medical Engineering and Physics, 2016, 38, 1505-1512.	1.7	3
42	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.	2.1	3
43	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.	3.1	2
44	Compact Model of a Screen under Fan-Induced Swirl Conditions Using a Porous Media Approach. Applied Sciences (Switzerland), 2021, 11, 1999.	2.5	2
45	ON THE DISINTEGRATION OF FAN-SHAPED LIQUID SHEETS. Atomization and Sprays, 2012, 22, 733-755.	0.8	2
46	The influence of a non-linear lecturing approach on student attention: Implementation and assessment. Ingenieria E Investigacion, 2015, 35, 115-120.	0.4	2
47	"Computational study of a novel catheter for liver radioembolization― International Journal for Numerical Methods in Biomedical Engineering, 2022, , e3577.	2.1	2
48	In Vitro Model for Simulating Drug Delivery during Balloon-Occluded Transarterial Chemoembolization. Biology, 2021, 10, 1341.	2.8	2
49	Towards the efficient refrigeration of transformer substations by means of computational fluid dynamics. , 2013, , .		1
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	How Could 90Y-Loaded Microsphere Distribution Be Optimized?. CardioVascular and Interventional Radiology, 2022, 45, 970-971.	2.0	1
52	Analysis of the performance reduction of axial fans in close proximity to EMC screens. , 2010, , .		0
53	A methodology for assessing local bifurcated blood vessel shape variations. Biomedical Physics and Engineering Express, 2016, 2, 015001.	1.2	0
54	INFLUENCE OF THE LOCAL MEAN CURVATURE ON THE ABDOMINAL AORTIC ANEURYSM STRESS DISTRIBUTION. Journal of Mechanics in Medicine and Biology, 2017, 17, 1750106.	0.7	0

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55	Gibeleko erradioenbolizazioaren CFD simulazioak: odolaren biskositatearen eragina gibeleko hemodinamikan eta mikroesferen distribuzioan. Ekaia (journal), 0, , .	0.0	0
56	ENERGY EFFICIENCY OF A RAILWAY CARRIAGE AIR CONDITIONING SYSTEM: PARAMETRIC ANALYSIS AND OPTIMIZATION THROUGH DoE TECHNIQUES. Dyna (Spain), 2020, 95, 640-645.	0.2	0