

# Raul Anton

## List of Publications by Year in descending order

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56  
papers

600  
citations

566801

15  
h-index

713013

21  
g-index

56  
all docs

56  
docs citations

56  
times ranked

506  
citing authors

#	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. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 031001.	0.6	33
2	Influence of surface roughness on a spray cooling system with R134a. Part I: Heat transfer measurements. <i>Experimental Thermal and Fluid Science</i> , 2013, 46, 183-190.	1.5	29
3	Experimental and computational investigation of the patient-specific abdominal aortic aneurysm pressure field. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , 2015, 18, 981-992.	0.9	27
4	Experimental study of the turbulent flow around a single wall-mounted cube exposed to a cross-flow and an impinging jet. <i>International Journal of Heat and Fluid Flow</i> , 2012, 38, 50-71.	1.1	26
5	Effect of the spray cone angle in the spray cooling with R134a. <i>Experimental Thermal and Fluid Science</i> , 2013, 50, 127-138.	1.5	26
6	Computational parametric study of an impinging jet in a cross-flow configuration for electronics cooling applications. <i>Applied Thermal Engineering</i> , 2013, 52, 428-438.	3.0	26
7	Numerical modelling of the natural ventilation of underground transformer substations. <i>Applied Thermal Engineering</i> , 2013, 51, 852-863.	3.0	26
8	Liver cancer arterial perfusion modelling and CFD boundary conditions methodology: a case study of the haemodynamics of a patient-specific hepatic artery in literature-based healthy and tumour-bearing liver scenarios. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2016, 32, e02764.	1.0	26
9	Influence of surface roughness on a spray cooling system with R134a. Part II: Film thickness measurements. <i>Experimental Thermal and Fluid Science</i> , 2013, 48, 73-80.	1.5	23
10	Film Thickness and Heat Transfer Measurements in a Spray Cooling System With R134a. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2011, 133, .	1.2	21
11	Characterization of fan spray atomizers through numerical simulation. <i>International Journal of Heat and Fluid Flow</i> , 2009, 30, 339-355.	1.1	19
12	Zonal thermal model of the ventilation of underground transformer substations: Development and parametric study. <i>Applied Thermal Engineering</i> , 2014, 62, 215-228.	3.0	19
13	Computational particle-based haemodynamics analysis of liver radioembolization pretreatment as an actual treatment surrogate. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e02791.	1.0	19
14	Computational assessment of the effects of the catheter type on particle-based hemodynamics during liver radioembolization. <i>Journal of Biomechanics</i> , 2016, 49, 3705-3713.	0.9	17
15	Linear spatial instability of viscous flow of a liquid sheet through gas. <i>Physics of Fluids</i> , 2010, 22, .	1.6	16
16	Geometric surrogates of abdominal aortic aneurysm wall mechanics. <i>Medical Engineering and Physics</i> , 2018, 59, 43-49.	0.8	16
17	The role of angled-tip microcatheter and microsphere injection velocity in liver radioembolization: A computational particle-based hemodynamics study. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2017, 33, e2895.	1.0	15
18	Liver Radioembolization: An Analysis of Parameters that Influence the Catheter-Based Particle-Delivery via CFD. <i>Current Medicinal Chemistry</i> , 2020, 27, 1600-1615.	1.2	15

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19	Abdominal Aortic Aneurysm: From Clinical Imaging to Realistic Replicas. <i>Journal of Biomechanical Engineering</i> , 2014, 136, 014502.	0.6	13
20	The Relationship Between Surface Curvature and Abdominal Aortic Aneurysm Wall Stress. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	13
21	Computational Fluid Dynamics Modeling of Liver Radioembolization: A Review. <i>CardioVascular and Interventional Radiology</i> , 2022, 45, 12-20.	0.9	13
22	Numerical investigation of liver radioembolization via computational particleâ€œhemodynamics: The role of the microcatheter distal direction and microsphere injection point and velocity. <i>Journal of Biomechanics</i> , 2016, 49, 3714-3721.	0.9	12
23	A proof-of-concept study of the in-vivo validation of a computational fluid dynamics model of personalized radioembolization. <i>Scientific Reports</i> , 2021, 11, 3895.	1.6	12
24	Physiological outflow boundary conditions methodology for small arteries with multiple outlets: A patient-specific hepatic artery haemodynamics case study. <i>Proceedings of the Institution of Mechanical Engineers, Part H: Journal of Engineering in Medicine</i> , 2015, 229, 291-306.	1.0	11
25	Numerical zeroâ€œdimensional hepatic artery hemodynamics model for balloonâ€œoccluded transarterial chemoembolization. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2983.	1.0	11
26	Optimization of thermal management systems for vertical elevation applications powered by lithium-ion batteries. <i>Applied Thermal Engineering</i> , 2019, 147, 155-166.	3.0	11
27	In Vitro Surfactant and Perfluorocarbon Aerosol Deposition in a Neonatal Physical Model of the Upper Conducting Airways. <i>PLoS ONE</i> , 2014, 9, e106835.	1.1	10
28	A Methodology for Verifying Abdominal Aortic Aneurysm Wall Stress. <i>Journal of Biomechanical Engineering</i> , 2017, 139, .	0.6	9
29	A methodology for developing anisotropic AAA phantoms via additive manufacturing. <i>Journal of Biomechanics</i> , 2017, 57, 161-166.	0.9	9
30	Detailed CFD Modelling of EMC Screens for Radio Base Stations: A Parametric Study. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2009, 32, 145-155.	1.4	7
31	Detailed CFD Modeling of EMC Screen for Radio Base Stations: A Benchmark Study. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2007, 30, 754-763.	1.4	6
32	Compact CFD Modeling of EMC Screen for Radio Base Stations: A Porous Media Approach and a Correlation for the Directional Loss Coefficients. <i>IEEE Transactions on Components and Packaging Technologies</i> , 2007, 30, 875-885.	1.4	6
33	Mathematical modeling and numerical simulation of surfactant delivery within a physical model of the neonatal trachea for different aerosol characteristics. <i>Aerosol Science and Technology</i> , 2017, 51, 168-177.	1.5	6
34	Experimental study of fibre breakup and shot formation in melt blowing nozzle designs. <i>Journal of Industrial Textiles</i> , 2022, 51, 3895S-3922S.	1.1	6
35	Performance of Axial Fans in Close Proximity to the Electromagnetic Compatibility Screens. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2012, 134, .	1.2	5
36	CFD Simulations of Radioembolization: A Proof-of-Concept Study on the Impact of the Hepatic Artery Tree Truncation. <i>Mathematics</i> , 2021, 9, 839.	1.1	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.	0.9	4
39	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
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.	1.1	3
41	Anisotropic abdominal aortic aneurysm replicas with biaxial material characterization. Medical Engineering and Physics, 2016, 38, 1505-1512.	0.8	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.	1.0	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.	1.5	2
44	Compact Model of a Screen under Fan-Induced Swirl Conditions Using a Porous Media Approach. Applied Sciences (Switzerland), 2021, 11, 1999.	1.3	2
45	ON THE DISINTEGRATION OF FAN-SHAPED LIQUID SHEETS. Atomization and Sprays, 2012, 22, 733-755.	0.3	2
46	The influence of a non-linear lecturing approach on student attention: Implementation and assessment. Ingenieria E Investigacion, 2015, 35, 115-120.	0.2	2
47	â€Computational study of a novel catheter for liver radioembolizationâ€. International Journal for Numerical Methods in Biomedical Engineering, 2022, , e3577.	1.0	2
48	In Vitro Model for Simulating Drug Delivery during Balloon-Occluded Transarterial Chemoembolization. Biology, 2021, 10, 1341.	1.3	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.	0.9	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.	0.6	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.	0.3	0

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55	Gibelego erradioenbolizazioaren CFD simulazioak: odolaren biskositearen eragina gibelego 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.	0.1	0