Eduardo Divo

List of Publications by Year
in descending order

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37	554	623574	677027
papers	citations	14 h-index	22 g-index

37	37	37	430
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A generalized boundary integral equation for isotropic heat conduction with spatially varying thermal conductivity. Engineering Analysis With Boundary Elements, 1996, 18, 273-286.	2.0	60
2	Localized Meshless Modeling of Natural-Convective Viscous Flows. Numerical Heat Transfer, Part B: Fundamentals, 2008, 53, 487-509.	0.6	39
3	A parallel domain decomposition boundary element method approach for the solution of large-scale transient heat conduction problems. Engineering Analysis With Boundary Elements, 2006, 30, 553-563.	2.0	33
4	Retrieval of multidimensional heat transfer coefficient distributions using an inverse BEM-based regularized algorithm: numerical and experimental results. Engineering Analysis With Boundary Elements, 2005, 29, 150-160.	2.0	32
5	A meshless method for conjugate heat transfer problems. Engineering Analysis With Boundary Elements, 2005, 29, 136-149.	2.0	30
6	Computational Analysis of Hybrid Norwood Circulation With Distal Aortic Arch Obstruction and Reverse Blalock-Taussig Shunt. Annals of Thoracic Surgery, 2012, 94, 1540-1550.	0.7	28
7	Minimisation of the wall shear stress gradients in bypass grafts anastomoses using meshless CFD and genetic algorithms optimisation. Computer Methods in Biomechanics and Biomedical Engineering, 2010, 13, 35-47.	0.9	27
8	The Effect of Conjugate Heat Transfer on Film Cooling Effectiveness. Numerical Heat Transfer, Part B: Fundamentals, 2010, 56, 335-350.	0.6	23
9	Generalized Boundary Integral Equation for Transient Heat Conduction in Heterogeneous Media. Journal of Thermophysics and Heat Transfer, 1998, 12, 364-373.	0.9	22
10	Generalized boundary integral equation for heat conduction in non-homogeneous media: recent developments on the sifting property. Engineering Analysis With Boundary Elements, 1998, 22, 221-234.	2.0	21
11	Iterative domain decomposition meshless method modeling of incompressible viscous flows and conjugate heat transfer. Engineering Analysis With Boundary Elements, 2006, 30, 465-478.	2.0	21
12	Estimating thermal contact resistance using sensitivity analysis and regularization. Engineering Analysis With Boundary Elements, 2009, 33, 54-62.	2.0	20
13	Computational fluid dynamics in congenital heart disease. Cardiology in the Young, 2012, 22, 800-808.	0.4	20
14	Reconstruction of time-dependent boundary heat flux by a BEM-based inverse algorithm. Engineering Analysis With Boundary Elements, 2006, 30, 767-773.	2.0	16
15	Computational Investigation of a Self-Powered Fontan Circulation. Cardiovascular Engineering and Technology, 2018, 9, 202-216.	0.7	16
16	A patient-specific model of the biomechanics of hip reduction for neonatal Developmental Dysplasia of the Hip: Investigation of strategies for low to severe grades of Developmental Dysplasia of the Hip. Journal of Biomechanics, 2015, 48, 2026-2033.	0.9	14
17	Patient-Specific Multi-Scale Model Analysis of Hemodynamics Following the Hybrid Norwood Procedure for Hypoplastic Left Heart Syndrome: Effects of Reverse Blalockâ€“Taussig Shunt Diameter. Cardiovascular Engineering and Technology, 2019, 10, 136-154.	0.7	14
18	Effects of Ferroelectric Fillers on Composite Dielectric Elastomer Actuator. Actuators, 2021, 10, 137.	1.2	11

#	Article	IF	Citations
19	Experimental and boundary element method study on the effect of stress on the polarization curve of cast aluminum alloy in sodium chloride solution. Corrosion Science, 2018, 132, 136-145.	3.0	10
20	A binary-tree subdivision method for evaluation of singular integrals in 3D BEM. Engineering Analysis With Boundary Elements, 2019, 103, 80-93.	2.0	10
21	Parametric investigation of an injection-jet self-powered Fontan circulation. Scientific Reports, 2022, 12, 2161.	1.6	10
22	Use of computational fluid dynamics (CFD) to tailor the surgical implantation of a ventricular assist device (VAD): A patient-specific approach to reduce risk of stroke. Journal of the American College of Surgeons, 2010, 211, S26-S27.	0.2	9
23	Computational Fluid Dynamics Study of Cerebral Thromboembolism Risk in Ventricular Assist Device Patients: Effects of Pulsatility and Thrombus Origin. Journal of Biomechanical Engineering, 2021, 143, .	0.6	9
24	Experimental Study of Anisotropic Stress/Strain Relationships of the Piglet Great Vessels and Relevance to Pediatric Congenital Heart Disease. Annals of Thoracic Surgery, 2015, 99, 1399-1407.	0.7	8
25	Fluidâ€“Structure Interaction methods for the progressive anatomical and artificial aortic valve stenosis. International Journal of Mechanical Sciences, 2022, 227, 107410.	3.6	7
26	Experimental Study of Anisotropic Stress/Strain Relationships of Aortic and Pulmonary Artery Homografts and Synthetic Vascular Grafts. Journal of Biomechanical Engineering, 2017, 139, .	0.6	6
27	A shock-capturing meshless scheme using RBF blended interpolation and moving least squares. Engineering Analysis With Boundary Elements, 2019, 109, 81-93.	2.0	6
28	Phenotypic and transcriptional changes in Escherichia coli K12 in response to simulated microgravity on the EagleStat, a new 2D microgravity analog for bacterial studies.. Life Sciences in Space Research, 2022, 34, 1-8.	1.2	6
29	Automated hybrid singularity superposition and anchored grid pattern BEM algorithm for the solution of inverse geometric problems. Engineering Analysis With Boundary Elements, 2016, 73, 69-78.	2.0	5
30	Computational fluid dynamics investigation of the novel hybrid comprehensive stage II operation. JTCVS Open, 2021, 7, 308-323.	0.2	5
31	Biomechanical evaluation of femoral anteversion in developmental dysplasia of the hip and potential implications for closed reduction. Clinical Biomechanics, 2020, 72, 179-185.	0.5	4
32	In-Vitro Validation of Self-Powered Fontan Circulation for Treatment of Single Ventricle Anomaly. Fluids, 2021, 6, 401.	0.8	4
33	Developmental dysplasia of the hip: A computational biomechanical model of the path of least energy for closed reduction. Journal of Orthopaedic Research, 2017, 35, 1799-1805.	1.2	3
34	Patient-specific multiscale computational fluid dynamics assessment of embolization rates in the hybrid Norwood: effects of size and placement of the reverse Blalockâ€“Taussig shunt. Canadian Journal of Physiology and Pharmacology, 2018, 96, 690-700.	0.7	2
35	Meshless Modeling of Flow Dispersion and Progressive Piping in Poroelastic Levees. Fluids, 2019, 4, 120.	0.8	2
36	In-silico analysis of outflow graft implantation orientation and cerebral thromboembolism incidence for full LVAD support. Computer Methods in Biomechanics and Biomedical Engineering, 2021, , 1-13.	0.9	1

#	Article	IF	Citations
37	RBF-BASED LASER SPECKLE PATTERN DIGITAL IMAGE CORRELATION METHOD FOR SURFACE STRAIN MEASUREMENTS. , 2018, , .		0