

Carla Daniele

List of Publications by Year in descending order

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35
papers

665
citations

623188

14
h-index

552369

26
g-index

35
all docs

35
docs citations

35
times ranked

630
citing authors

#	ARTICLE	IF	CITATIONS
1	The Power-law Mathematical Model for Blood Damage Prediction: Analytical Developments and Physical Inconsistencies. <i>Artificial Organs</i> , 2004, 28, 467-475.	1.0	103
2	Discussion. <i>Journal of Biomechanics</i> , 1999, 32, 1107-1112.	0.9	76
3	A mathematical description of blood spiral flow in vessels: application to a numerical study of flow in arterial bending. <i>Journal of Biomechanics</i> , 2005, 38, 1375-1386.	0.9	68
4	Computational model of the fluid dynamics of a cannula inserted in a vessel: incidence of the presence of side holes in blood flow. <i>Journal of Biomechanics</i> , 2002, 35, 1599-1612.	0.9	58
5	The influence of the leaflets' curvature on the flow field in two bileaflet prosthetic heart valves. <i>Journal of Biomechanics</i> , 2001, 34, 613-621.	0.9	46
6	The beneficial vortex and best spatial arrangement in total extracardiac cavopulmonary connection. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2002, 124, 471-478.	0.4	37
7	Investigation of the flow field downstream of an artificial heart valve by means of PIV and PTV. <i>Experiments in Fluids</i> , 2004, 36, 204-213.	1.1	35
8	Three-Dimensional Numeric Simulation of Flow Through an Aortic Bileaflet Valve in a Realistic Model of Aortic Root. <i>ASAIO Journal</i> , 2005, 51, 176-183.	0.9	35
9	Particle Image Velocimetry Analysis of the Flow Field in the Total Cavopulmonary Connection. <i>Artificial Organs</i> , 2000, 24, 946-952.	1.0	25
10	Innovative technologies for the assessment of cardiovascular medical devices: state-of-the-art techniques for artificial heart valve testing. <i>Expert Review of Medical Devices</i> , 2004, 1, 81-93.	1.4	25
11	State of the art and challenges for the classification of studies on electromechanical and robotic devices in neurorehabilitation: a scoping review. <i>European Journal of Physical and Rehabilitation Medicine</i> , 2021, 57, 831-840.	1.1	23
12	Evaluation of the surface-averaged load exerted on a blood element by the Reynolds shear stress field provided by artificial cardiovascular devices. <i>Journal of Biomechanics</i> , 2002, 35, 1613-1622.	0.9	21
13	Flow on the symmetry plane of a total cavo-pulmonary connection. <i>Journal of Biomechanics</i> , 2002, 35, 595-608.	0.9	19
14	On the monodimensional approach to the estimation of the highest Reynolds shear stress in a turbulent flow. <i>Journal of Biomechanics</i> , 2000, 33, 701-708.	0.9	15
15	Laser Doppler Anemometry Study of Bidimensional Flows Downstream of Three 19 mm Bileaflet Valves in the Mitral Position, Under Kinematic Similarity. <i>Annals of Biomedical Engineering</i> , 2000, 28, 194-203.	1.3	14
16	Hemodynamic Performance of Small-Size Bileaflet Valves: Pressure Drop and Laser Doppler Anemometry Study Comparison of Three Prostheses. <i>Artificial Organs</i> , 2000, 24, 959-965.	1.0	10
17	Potential Mechanical Blood Trauma in Vascular Access Devices: A Comparison of Case Studies. <i>International Journal of Artificial Organs</i> , 2002, 25, 882-891.	0.7	9
18	Hydraulic functional characterisation of aortic mechanical heart valve prostheses through lumped-parameter modelling. <i>Journal of Biomechanics</i> , 2002, 35, 1427-1432.	0.9	9

#	ARTICLE	IF	CITATIONS
19	in vitro evaluation of prosthetic heart valves: towards comparable testing. Journal of Medical Engineering and Technology, 1992, 16, 10-14.	0.8	6
20	the patterns of flow in the total extracardiac cavopulmonary connection. Cardiology in the Young, 2004, 14, 53-56.	0.4	6
21	Numerical Simulation of a Realistic Total Cavo-pulmonary Connection: Effect of Unbalanced Pulmonary Resistances on Hydrodynamic Performance. International Journal of Artificial Organs, 2003, 26, 1005-1014.	0.7	5
22	Beat to beat analysis of mechanical heart valves by means of return map. Journal of Medical Engineering and Technology, 2007, 31, 94-100.	0.8	4
23	Approaching comparability and results of pulsatile flow <i>in vitro</i> testing of prosthetic heart valves. Journal of Medical Engineering and Technology, 1995, 19, 115-118.	0.8	3
24	Pathological Patient in Protocol Definition for Bench Testing of Mechanical Cardiac Support System. International Journal of Artificial Organs, 2003, 26, 64-72.	0.7	3
25	Evaluation of Tilting Disc Valves after Fatigue Life Testing: Preliminary Results within a Comparison Program. Artificial Organs, 1995, 19, 921-927.	1.0	2
26	Morphological Analysis of in Vivo Velocity Field in the Alteration of the Vasomotor Tone. International Journal of Artificial Organs, 2004, 27, 868-881.	0.7	2
27	Electromechanical and Robotic Devices for Gait and Balance Rehabilitation of Children with Neurological Disability: A Systematic Review. Applied Sciences (Switzerland), 2021, 11, 12061.	1.3	2
28	In vitro assessment of a new algorithm for quantitative echo measurement of heart valve regurgitant jet. , 2003, , .		1
29	Endovascular Stents: Market Vigilance and Risk Factors. International Journal of Artificial Organs, 2004, 27, 45-54.	0.7	1
30	Laser Doppler technique for nondestructive evaluation of mechanical heart valves kinematics. , 2004, , .		1
31	Proposal for a Quantitative Description of Blood Spiral Flow in Medical Devices. International Journal of Artificial Organs, 2004, 27, 231-242.	0.7	1
32	Fluid dynamics studies of cardiovascular medical devices and blood damage prediction. , 2008, 2008, 1419-22.		0
33	Oxygen permeability measurements of contact lenses: A proposal for accuracy improvement. , 2013, 2013, 4730-3.		0
34	3D velocity field characterization of prosthetic heart valve with two different valve testers by means of stereo-PIV. , 2015, 2015, 3327-30.		0
35	A Mathematical Model of Discharge Coefficient for Prosthetic Valvesâ€™ Performance Evaluation. IFMBE Proceedings, 2016, , 688-693.	0.2	0