

# Carla Daniele

## List of Publications by Year in descending order

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35  
papers

665  
citations

623734  
14  
h-index

552781  
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. Artificial Organs, 2004, 28, 467-475.	1.9	103
2	Discussion. Journal of Biomechanics, 1999, 32, 1107-1112.	2.1	76
3	A mathematical description of blood spiral flow in vessels: application to a numerical study of flow in arterial bending. Journal of Biomechanics, 2005, 38, 1375-1386.	2.1	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. Journal of Biomechanics, 2002, 35, 1599-1612.	2.1	58
5	The influence of the leaflets' curvature on the flow field in two bileaflet prosthetic heart valves. Journal of Biomechanics, 2001, 34, 613-621.	2.1	46
6	The beneficial vortex and best spatial arrangement in total extracardiac cavopulmonary connection. Journal of Thoracic and Cardiovascular Surgery, 2002, 124, 471-478.	0.8	37
7	Investigation of the flow field downstream of an artificial heart valve by means of PIV and PTV. Experiments in Fluids, 2004, 36, 204-213.	2.4	35
8	Three-Dimensional Numeric Simulation of Flow Through an Aortic Bileaflet Valve in a Realistic Model of Aortic Root. ASAIO Journal, 2005, 51, 176-183.	1.6	35
9	Particle Image Velocimetry Analysis of the Flow Field in the Total Cavopulmonary Connection. Artificial Organs, 2000, 24, 946-952.	1.9	25
10	Innovative technologies for the assessment of cardiovascular medical devices: state-of-the-art techniques for artificial heart valve testing. Expert Review of Medical Devices, 2004, 1, 81-93.	2.8	25
11	State of the art and challenges for the classification of studies on electromechanical and robotic devices in neurorehabilitation: a scoping review. European Journal of Physical and Rehabilitation Medicine, 2021, 57, 831-840.	2.2	23
12	Evaluation of the surface-averaged load exerted on a blood element by the Reynolds shear stress field provided by artificial cardiovascular devices. Journal of Biomechanics, 2002, 35, 1613-1622.	2.1	21
13	Flow on the symmetry plane of a total cavo-pulmonary connection. Journal of Biomechanics, 2002, 35, 595-608.	2.1	19
14	On the monodimensional approach to the estimation of the highest Reynolds shear stress in a turbulent flow. Journal of Biomechanics, 2000, 33, 701-708.	2.1	15
15	Laser Doppler Anemometry Study of Bidimensional Flows Downstream of Three 19 mm Bileaflet Valves in the Mitral Position, Under Kinematic Similarity. Annals of Biomedical Engineering, 2000, 28, 194-203.	2.5	14
16	Hemodynamic Performance of Small-Size Bileaflet Valves: Pressure Drop and Laser Doppler Anemometry Study Comparison of Three Prostheses. Artificial Organs, 2000, 24, 959-965.	1.9	10
17	Potential Mechanical Blood Trauma in Vascular Access Devices: A Comparison of Case Studies. International Journal of Artificial Organs, 2002, 25, 882-891.	1.4	9
18	Hydraulic functional characterisation of aortic mechanical heart valve prostheses through lumped-parameter modelling. Journal of Biomechanics, 2002, 35, 1427-1432.	2.1	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.	1.4	6
20	the patterns of flow in the total extracardiac cavopulmonary connection. Cardiology in the Young, 2004, 14, 53-56.	0.8	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.	1.4	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.	1.4	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.	1.4	3
24	Pathological Patient in Protocol Definition for Bench Testing of Mechanical Cardiac Support System. International Journal of Artificial Organs, 2003, 26, 64-72.	1.4	3
25	Evaluation of Tilting Disc Valves after Fatigue Life Testing: Preliminary Results within a Comparison Program. Artificial Organs, 1995, 19, 921-927.	1.9	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.	1.4	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.	2.5	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.	1.4	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.	1.4	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.	0.3	0