

Lyes Kadem

List of Publications by Year in descending order

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Version: 2024-02-01

42
papers

441
citations

687363

13
h-index

752698

20
g-index

50
all docs

50
docs citations

50
times ranked

519
citing authors

#	ARTICLE	IF	CITATIONS
1	Brads in the heart: global measures of mixing for cardiovascular flows. <i>Flow</i> , 2022, 2, .	2.6	2
2	Proper Orthogonal Decomposition Analysis of the Flow Downstream of a Dysfunctional Bileaflet Mechanical Aortic Valve. <i>Cardiovascular Engineering and Technology</i> , 2021, 12, 286-299.	1.6	8
3	Energy loss associated with in-vitro modeling of mitral annular calcification. <i>PLoS ONE</i> , 2021, 16, e0246701.	2.5	1
4	Response to: "Color Doppler Splay: A New Tool for the Assessment of Valvular Regurgitations" by Allievi et al. <i>Journal of the American Society of Echocardiography</i> , 2021, 34, 1022-1023.	2.8	1
5	Flow Dynamics in a Model of a Left Ventricle with Different Mitral Valve Orientations. <i>Fluids</i> , 2021, 6, 428.	1.7	2
6	Flow examination in abdominal aortic aneurysms: Reduced-order models driven by <i>in vitro</i> data and spectral proper orthogonal decomposition. <i>Physics of Fluids</i> , 2021, 33, .	4.0	6
7	Extracting Lagrangian coherent structures in cardiovascular flows using Lagrangian descriptors. <i>Physics of Fluids</i> , 2021, 33, .	4.0	15
8	Spectral-Clustering of Lagrangian Trajectory Graphs: Application to Abdominal Aortic Aneurysms. <i>Cardiovascular Engineering and Technology</i> , 2021, , 1.	1.6	0
9	A semi-analytical model of heat transfer and pressure drop in annular flow regime for flow boiling in a horizontal microtube at uniform heat flux. <i>Transactions of the Canadian Society for Mechanical Engineering</i> , 2020, 44, 362-384.	0.8	0
10	Flow characteristics in a model of a left ventricle in the presence of a dysfunctional mitral mechanical heart valve. <i>Journal of Visualization</i> , 2020, 23, 1-8.	1.8	5
11	Impact of Mitral Regurgitation on the Flow in a Model of a Left Ventricle. <i>Cardiovascular Engineering and Technology</i> , 2020, 11, 708-718.	1.6	2
12	Color Doppler Splay: A Clue to the Presence of Significant Mitral Regurgitation. <i>Journal of the American Society of Echocardiography</i> , 2020, 33, 1212-1219.e1.	2.8	11
13	How pulmonary valve regurgitation after tetralogy of fallot repair changes the flow dynamics in the right ventricle: An <i>in vitro</i> study. <i>Medical Engineering and Physics</i> , 2020, 83, 48-55.	1.7	7
14	<i>In vitro</i> characterization of Lagrangian fluid transport downstream of a dysfunctional bileaflet mechanical aortic valve. <i>AIP Advances</i> , 2020, 10, .	1.3	6
15	Pulsatile twin parallel jets through a flexible orifice with application to edge-to-edge mitral valve repair. <i>Physics of Fluids</i> , 2020, 32, 121702.	4.0	1
16	Effects of hemodynamic conditions and valve sizing on leaflet bending stress in self-expanding transcatheter aortic valve: An <i>in vitro</i> study. <i>Artificial Organs</i> , 2020, 44, E277-E287.	1.9	6
17	Experimental Investigation of the Effect of Heart Rate on Flow in the Left Ventricle in Health and Disease" Aortic Valve Regurgitation. <i>Journal of Biomechanical Engineering</i> , 2020, 142, .	1.3	3
18	10.1063/5.0021372.1. , 2020, , .		0

#	ARTICLE	IF	CITATIONS
19	10.1063/5.0021372.4. , 2020, , .		0
20	10.1063/5.0021372.3. , 2020, , .		0
21	10.1063/5.0021372.5. , 2020, , .		0
22	10.1063/5.0021372.2. , 2020, , .		0
23	Experimental investigation of the flow downstream of a dysfunctional bileaflet mechanical aortic valve. <i>Artificial Organs</i> , 2019, 43, E249-E263.	1.9	9
24	Response to letter to the editor: "Left ventricular flow in the presence of aortic regurgitation". <i>Journal of Biomechanics</i> , 2019, 87, 212-214.	2.1	1
25	Reduced-order modeling of left ventricular flow subject to aortic valve regurgitation. <i>Physics of Fluids</i> , 2019, 31, .	4.0	22
26	Jet collisions and vortex reversal in the human left ventricle. <i>Journal of Biomechanics</i> , 2018, 78, 155-160.	2.1	31
27	Material transport in the left ventricle with aortic valve regurgitation. <i>Physical Review Fluids</i> , 2018, 3, .	2.5	15
28	ANALYSIS OF DIASTOLIC VORTEX FLOW AS A MARKER OF VENTRICULAR DETERIORATION IN AORTIC REGURGITATION. <i>Journal of the American College of Cardiology</i> , 2017, 69, 1976.	2.8	3
29	Are the Current Doppler Echocardiography Criteria Able to Discriminate Mitral Bileaflet Mechanical Heart Valve Malfunction? An In Vitro Study. <i>Artificial Organs</i> , 2016, 40, E52-E60.	1.9	4
30	Experimental Investigation of Louver Cooling Scheme on Gas Turbine Stator. <i>Heat Transfer Engineering</i> , 2016, 37, 82-105.	1.9	7
31	The role of aortic compliance in determination of coarctation severity: Lumped parameter modeling, in vitro study and clinical evaluation. <i>Journal of Biomechanics</i> , 2015, 48, 4229-4237.	2.1	26
32	Effect of Aortic Annulus Size and Prosthesis Oversizing on the Hemodynamics and Leaflet Bending Stress of Transcatheter Valves: An In Vitro Study. <i>Canadian Journal of Cardiology</i> , 2015, 31, 1041-1046.	1.7	16
33	Timing of Dynamic NT-proBNP and hs-cTnT Response to Exercise Challenge in Asymptomatic Children with Moderate Aortic Valve Regurgitation or Moderate Aortic Valve Stenosis. <i>Pediatric Cardiology</i> , 2015, 36, 1735-1741.	1.3	3
34	Hemodynamic Changes following Aortic Valve Bypass: A Mathematical Approach. <i>PLoS ONE</i> , 2015, 10, e0123000.	2.5	21
35	Non-Invasive Determination of Left Ventricular Workload in Patients with Aortic Stenosis Using Magnetic Resonance Imaging and Doppler Echocardiography. <i>PLoS ONE</i> , 2014, 9, e86793.	2.5	35
36	Effect of coarctation of the aorta and bicuspid aortic valve on flow dynamics and turbulence in the aorta using particle image velocimetry. <i>Experiments in Fluids</i> , 2014, 55, 1.	2.4	26

#	ARTICLE	IF	CITATIONS
37	Accuracy of Doppler-echocardiographic parameters for the detection of aortic bileaflet mechanical prosthetic valve dysfunction. <i>European Heart Journal Cardiovascular Imaging</i> , 2014, 15, 142-151.	1.2	16
38	Cardiovascular magnetic resonance evaluation of aortic stenosis severity using single plane measurement of effective orifice area. <i>Journal of Cardiovascular Magnetic Resonance</i> , 2012, 14, 24.	3.3	37
39	Visualization of an imploding circular wave front and the formation of a central vertical jet. <i>Journal of Visualization</i> , 2011, 14, 19-22.	1.8	2
40	Numerical simulation and flow visualization using soap film of the self-organized vortex structure in the wake of an array of cylinders. <i>Journal of Visualization</i> , 2011, 14, 311-314.	1.8	1
41	Assessment of left heart and pulmonary circulation flow dynamics by a new pulsed mock circulatory system. <i>Experiments in Fluids</i> , 2010, 48, 837-850.	2.4	49
42	Effects of dynamic contact angle on numerical modeling of electrowetting in parallel plate microchannels. <i>Microfluidics and Nanofluidics</i> , 2010, 8, 47-56.	2.2	39