

John Charonko

List of Publications by Year in descending order

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51
papers

1,121
citations

471061

17
h-index

433756

31
g-index

56
all docs

56
docs citations

56
times ranked

1104
citing authors

#	ARTICLE	IF	CITATIONS
1	Estimation of uncertainty bounds for individual particle image velocimetry measurements from cross-correlation peak ratio. <i>Measurement Science and Technology</i> , 2013, 24, 065301.	1.4	171
2	Assessment of pressure field calculations from particle image velocimetry measurements. <i>Measurement Science and Technology</i> , 2010, 21, 105401.	1.4	121
3	Phase correlation processing for DPIV measurements. <i>Experiments in Fluids</i> , 2008, 45, 485-500.	1.1	95
4	Vortices Formed on the Mitral Valve Tips Aid Normal Left Ventricular Filling. <i>Annals of Biomedical Engineering</i> , 2013, 41, 1049-1061.	1.3	90
5	Particle image velocimetry (PIV) uncertainty quantification using moment of correlation (MC) plane. <i>Measurement Science and Technology</i> , 2018, 29, 115301.	1.4	60
6	Particle image velocimetry correlation signal-to-noise ratio metrics and measurement uncertainty quantification. <i>Measurement Science and Technology</i> , 2014, 25, 115301.	1.4	58
7	Loss of Adrenergic Augmentation of Diastolic Intra-LV Pressure Difference in Patients With Diastolic Dysfunction. <i>JACC: Cardiovascular Imaging</i> , 2012, 5, 861-870.	2.3	54
8	In Vitro, Time-Resolved PIV Comparison of the Effect of Stent Design on Wall Shear Stress. <i>Annals of Biomedical Engineering</i> , 2009, 37, 1310-1321.	1.3	53
9	Adaptive gappy proper orthogonal decomposition for particle image velocimetry data reconstruction. <i>Measurement Science and Technology</i> , 2012, 23, 025303.	1.4	46
10	Robust wall gradient estimation using radial basis functions and proper orthogonal decomposition (POD) for particle image velocimetry (PIV) measured fields. <i>Measurement Science and Technology</i> , 2009, 20, 045401.	1.4	37
11	Stereo-particle image velocimetry uncertainty quantification. <i>Measurement Science and Technology</i> , 2017, 28, 015301.	1.4	36
12	Left ventricular vortex formation is unaffected by diastolic impairment. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2012, 303, H1255-H1262.	1.5	35
13	Variable-density mixing in turbulent jets with coflow. <i>Journal of Fluid Mechanics</i> , 2017, 825, 887-921.	1.4	35
14	Particle image pattern mutual information and uncertainty estimation for particle image velocimetry. <i>Measurement Science and Technology</i> , 2015, 26, 074001.	1.4	27
15	In Vitro Comparison of the Effect of Stent Configuration on Wall Shear Stress Using Time-resolved Particle Image Velocimetry. <i>Annals of Biomedical Engineering</i> , 2010, 38, 889-902.	1.3	24
16	The effect of initial conditions on mixing transition of the Richtmyer-Meshkov instability. <i>Journal of Fluid Mechanics</i> , 2020, 904, .	1.4	20
17	Disabled-2 modulates homotypic and heterotypic platelet interactions by binding to sulfatides. <i>British Journal of Haematology</i> , 2011, 154, 122-133.	1.2	18
18	Structure, Sulfatide Binding Properties, and Inhibition of Platelet Aggregation by a Disabled-2 Protein-derived Peptide. <i>Journal of Biological Chemistry</i> , 2012, 287, 37691-37702.	1.6	17

#	ARTICLE	IF	CITATIONS
19	A KÄ;rmÄ;nâ€™Howarthâ€™Monin equation for variable-density turbulence. Journal of Fluid Mechanics, 2018, 843, 382-418.	1.4	17
20	Assessment of Left Ventricular Diastolic Function Using 4-Dimensional Phase-Contrast Cardiac Magnetic Resonance. Journal of Computer Assisted Tomography, 2011, 35, 108-112.	0.5	11
21	Understanding the transport and break up of reactive ejecta. Physica D: Nonlinear Phenomena, 2021, 415, 132787.	1.3	10
22	Measurement of fluid rotation, dilation, and displacement in particle image velocimetry using a Fourierâ€™Mellin cross-correlation. Measurement Science and Technology, 2015, 26, 035301.	1.4	9
23	A Scaling Parameter for Predicting Pressure Wave Reflection in Stented Arteries. Journal of Medical Devices, Transactions of the ASME, 2009, 3, .	0.4	6
24	Multispectral processing for color particle image velocimetry. Microfluidics and Nanofluidics, 2014, 17, 729-743.	1.0	5
25	Accuracy of volumetric flow rate inflow/outflow measurement by integrating PIV velocity fields. Measurement Science and Technology, 2020, 31, 115303.	1.4	5
26	Windowed Fourier transform and cross-correlation algorithms for molecular tagging velocimetry. Measurement Science and Technology, 2020, 31, 074007.	1.4	4
27	Studies of reactive and nonreactive metalsâ€™ejectaâ€™transporting nonreactive and reactive gases and vacuum. AIP Conference Proceedings, 2020, , .	0.3	3
28	Liquid Entrainment by Round Turbulent Gas Jets Submerged in Water. , 2011, , .		2
29	The temperatures of ejecta transporting in vacuum and gases. Journal of Applied Physics, 2022, 131, 195104.	1.1	2
30	A Time Resolved DPIV In-Vitro Evaluation of Coronary Stents in Realistic Conditions: Part I â€™ Influence of Stent Configuration. , 2008, , .		1
31	Estimation of Uncertainty Bounds From Cross Correlation Peak Ratio for Individual PIV Measurements. , 2012, , .		1
32	Proton radiography of explosively dispersed metal particles with varying volume fraction and varying carrier phase. Shock Waves, 2021, 31, 75-88.	1.0	1
33	Beyond Taylorâ€™s hypothesis: a novel volumetric reconstruction of velocity and density fields for variableâ€™density and shear flows. Experiments in Fluids, 2021, 62, 1.	1.1	1
34	Improvements to the Dynamic Range of Velocity Measurements Using DPIV. , 2006, , .		1
35	On the Dynamics of Active Flow Control Over a Separated Airfoil Using Leading Edge Unsteady Blowing. , 2006, , 21.		0
36	Phase Correlation Processing for DPIV Measurements: Part I â€™ Spatial Domain Analysis. , 2007, , .		0

#	ARTICLE	IF	CITATIONS
37	1100 Phase contrast imaging: a novel way of assessing left ventricular diastolic function. Journal of Cardiovascular Magnetic Resonance, 2008, 10, .	1.6	0
38	A Time Resolved DPIV In-Vitro Evaluation of Coronary Stents in Realistic Conditions: Part II " Effect of Stent Design. , 2008, , .		0
39	Investigation of the Relationship Between Color M-Mode Early Diastolic Propagation Velocity and Left Ventricular Adverse Pressure Gradients. , 2010, , .		0
40	A Relationship Between Pressure Fields and Flow Patterns During Left Ventricular Diastolic Dysfunction Using 2D Phase Contrast MRI. , 2010, , .		0
41	Impaired Dobutamine Augmentation of Early Diastolic Suction in Diastolic Dysfunction. Journal of Cardiac Failure, 2011, 17, S7.	0.7	0
42	Estimation of Left Ventricular Wall Stiffness by Analysis of Late Diastolic Pressure Components. , 2011, , .		0
43	Left Ventricular Systolic Circumferential Deformation is Associated with Left Ventricular Diastolic Apical Suction. Journal of Cardiac Failure, 2013, 19, S170.	0.7	0
44	A Numerical and Experimental Analysis of Cardiovascular Stent Design Considerations. , 2003, , .		0
45	Phase Correlation Processing for DPIV Measurements: Part II " Spectral Domain Analysis. , 2007, , .		0
46	Time-Accurate Measurement of Pressure From Particle Image Velocimetry Data (Keynote). , 2007, , .		0
47	Robust Gradient Estimation Schemes Using Radial Basis Functions. , 2008, , .		0
48	Time Resolved DPIV in a Transonic Turbine Cascade. , 2008, , .		0
49	A Hydrodynamic Efficiency Parameter as a Novel Left Ventricular Diastolic Dysfunction Diagnostic Metric. , 2008, , .		0
50	A Novel Break Point Parameter as a Diagnostic Tool for Left Ventricular Diastolic Dysfunction. , 2008, , .		0
51	Left Ventricular Vortex Ring Dynamics and Their Association to Early Diastolic Filling. , 2011, , .		0