

Michael W Plesniak

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/753853/publications.pdf>

Version: 2024-02-01

73
papers

1,641
citations

304368

22
h-index

315357

38
g-index

75
all docs

75
docs citations

75
times ranked

1391
citing authors

#	ARTICLE	IF	CITATIONS
1	An in vitro analysis of the effect of geometry-induced flows on endothelial cell behavior in 3D printed small-diameter blood vessels. , 2022, 137, 212832.		9
2	Dual 3D printing for vascularized bone tissue regeneration. Acta Biomaterialia, 2021, 123, 263-274.	4.1	53
3	The effect of entrance flow development on vortex formation and wall shear stress in a curved artery model. Physics of Fluids, 2021, 33, .	1.6	14
4	Effects of highly pulsatile inflow frequency on surface-mounted bluff body wakes. Journal of Fluid Mechanics, 2020, 904, .	1.4	2
5	3D Bioprinting-Tunable Small-Diameter Blood Vessels with Biomimetic Biphasic Cell Layers. ACS Applied Materials & Interfaces, 2020, 12, 45904-45915.	4.0	70
6	Macro-Rheology Characterization of Gill Raker Mucus in the Silver Carp, <i>Hypophthalmichthys molitrix</i> . Journal of Visualized Experiments, 2020, , .	0.2	0
7	Formation and interaction of multiple secondary flow vortical structures in a curved pipe: transient and oscillatory flows. Journal of Fluid Mechanics, 2019, 876, 481-526.	1.4	14
8	An acoustic source model for asymmetric intraglottal flow with application to reduced-order models of the vocal folds. PLoS ONE, 2019, 14, e0219914.	1.1	8
9	Three-dimensional vortical structures and wall shear stress in a curved artery model. Physics of Fluids, 2019, 31, .	1.6	29
10	Insights on arterial secondary flow structures and vortex dynamics gained using the MRV technique. International Journal of Heat and Fluid Flow, 2018, 73, 143-153.	1.1	11
11	Secondary flow vortical structures in a 180° elastic curved vessel with torsion under steady and pulsatile inflow conditions. Physical Review Fluids, 2018, 3, .	1.0	19
12	PID controller design to generate pulsatile flow rate for in vitro experimental studies of physiological flows. Biomedical Engineering Letters, 2017, 7, 339-344.	2.1	4
13	Surface obstacles in pulsatile flow. Experiments in Fluids, 2017, 58, 1.	1.1	2
14	Integrating three-dimensional printing and nanotechnology for musculoskeletal regeneration. Nanotechnology, 2017, 28, 382001.	1.3	22
15	Morphology of Secondary Flows in a Curved Pipe With Pulsatile Inflow. Journal of Fluids Engineering, Transactions of the ASME, 2016, 138, .	0.8	17
16	On the rheology of refractive-index-matched, non-Newtonian blood-analog fluids for PIV experiments. Experiments in Fluids, 2016, 57, 1.	1.1	32
17	A high-order solver for unsteady incompressible Navier–Stokes equations using the flux reconstruction method on unstructured grids with implicit dual time stepping. Journal of Computational Physics, 2016, 314, 414-435.	1.9	26
18	Experimental Investigation of Secondary Flow Structures Downstream of a Model Type IV Stent Failure in a 180° Curved Artery Test Section. Journal of Visualized Experiments, 2016, , .	0.2	3

#	ARTICLE	IF	CITATIONS
19	Evolution of vortical structures in a curved artery model with non-Newtonian blood-analog fluid under pulsatile inflow conditions. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	21
20	A synergistic approach to the design, fabrication and evaluation of 3D printed micro and nano featured scaffolds for vascularized bone tissue repair. <i>Nanotechnology</i> , 2016, 27, 064001.	1.3	126
21	A flux reconstruction solver for unsteady incompressible viscous flow using artificial compressibility with implicit dual time stepping. , 2016, , .		2
22	Three-dimensional flow separation over a surface-mounted hemisphere in pulsatile flow. <i>Experiments in Fluids</i> , 2016, 57, 1.	1.1	16
23	Shannon Entropy-Based Wavelet Transform Method for Autonomous Coherent Structure Identification in Fluid Flow Field Data. <i>Entropy</i> , 2015, 17, 6617-6642.	1.1	19
24	A High-Order Method for Solving Unsteady Incompressible Navier-Stokes Equations with Implicit Time Stepping on Unstructured Grids. , 2015, , .		1
25	Flow field in the wake of a bluff body driven through a steady recirculating flow. <i>Experiments in Fluids</i> , 2015, 56, 1.	1.1	7
26	Non-Newtonian perspectives on pulsatile blood-analog flows in a 180° curved artery model. <i>Physics of Fluids</i> , 2015, 27, .	1.6	45
27	Determination of secondary flow morphologies by wavelet analysis in a curved artery model with physiological inflow. <i>Experiments in Fluids</i> , 2014, 55, 1.	1.1	15
28	Investigating the Three-dimensional Flow Separation Induced by a Model Vocal Fold Polyp. <i>Journal of Visualized Experiments</i> , 2014, , e51080.	0.2	1
29	A review of lumped-element models of voiced speech. <i>Speech Communication</i> , 2013, 55, 667-690.	1.6	53
30	A comparison of computational efficiencies of spectral difference method and correction procedure via reconstruction. <i>Journal of Computational Physics</i> , 2013, 239, 138-146.	1.9	36
31	Secondary flow morphologies due to model stent-induced perturbations in a 180° curved tube during systolic deceleration. <i>Experiments in Fluids</i> , 2013, 54, 1.	1.1	21
32	Fluid Dynamics of Human Phonation and Speech. <i>Annual Review of Fluid Mechanics</i> , 2013, 45, 437-467.	10.8	119
33	Response to "Comments on "A theoretical model of the pressure distributions arising from asymmetric intraglottal flows applied to a two-mass model of the vocal folds" [J. Acoust. Soc. Am. 130, 389-403 (2011)]. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 913-916.	0.5	3
34	A Wave Reflection Analog Extension for Reduced Order Vocal Fold Investigations With Asymmetric Intraglottal Flows. , 2012, , .		0
35	Secondary flow structures under stent-induced perturbations for cardiovascular flow in a curved artery model. <i>International Journal of Heat and Fluid Flow</i> , 2012, 35, 76-83.	1.1	27
36	Three-dimensional laryngeal flow fields induced by a model vocal fold polyp. <i>International Journal of Heat and Fluid Flow</i> , 2012, 35, 93-101.	1.1	14

#	ARTICLE	IF	CITATIONS
37	Vortex dynamics and scalar transport in the wake of a bluff body driven through a steady recirculating flow. <i>Experiments in Fluids</i> , 2012, 53, 747-763.	1.1	10
38	Spectral Difference Solution of Incompressible Flow Over an Inline Tube Bundle With Oscillating Cylinder. , 2012, , .		1
39	Nonlinear Vocal Fold Dynamics in a Two-Mass Model of Speech Arising From Asymmetric Intraglottal Flow. , 2011, , .		0
40	Impact of scaling and body movement on contaminant transport in airliner cabins. <i>Atmospheric Environment</i> , 2011, 45, 6019-6028.	1.9	69
41	Nonlinear vocal fold dynamics resulting from asymmetric fluid loading on a two-mass model of speech. <i>Chaos</i> , 2011, 21, 033113.	1.0	17
42	Impact of wall rotation on supraglottal jet stability in voiced speech. <i>Journal of the Acoustical Society of America</i> , 2011, 129, EL64-EL70.	0.5	13
43	A theoretical model of the pressure field arising from asymmetric intraglottal flows applied to a two-mass model of the vocal folds. <i>Journal of the Acoustical Society of America</i> , 2011, 130, 389-403.	0.5	29
44	An investigation of asymmetric flow features in a scaled-up driven model of the human vocal folds. <i>Experiments in Fluids</i> , 2010, 49, 131-146.	1.1	48
45	Flow and contaminant transport in an airliner cabin induced by a moving body: Model experiments and CFD predictions. <i>Atmospheric Environment</i> , 2010, 44, 2830-2839.	1.9	124
46	Viscous flow features in scaled-up physical models of normal and pathological vocal phonation. <i>International Journal of Heat and Fluid Flow</i> , 2010, 31, 468-481.	1.1	16
47	Secondary Flow Structure Induced by Physiologically Relevant Waveform in a Curved Tube. , 2009, , .		0
48	An Experimental Investigation of the Quasi-Steady Assumption in Speech. , 2009, , .		0
49	The influence of inlet velocity profile and secondary flow on pulsatile flow in a model artery with stenosis. <i>Journal of Fluid Mechanics</i> , 2008, 616, 263-301.	1.4	39
50	Cavitation Structures in a Venturi Flow With Various Backward Facing Steps. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2008, 130, .	0.8	4
51	Biomedical Fluid Dynamics: Rich Flow Physics in Pulsatile Flow (Keynote). , 2007, , .		0
52	Near-Field Flow Measurements of a Cavitating Jet Emanating From a Crown-Shaped Nozzle. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2007, 129, 605-612.	0.8	5
53	Flow structure and skin friction in the vicinity of a streamwise-angled injection hole fed by a short pipe. <i>Experiments in Fluids</i> , 2007, 43, 627-638.	1.1	5
54	EVOLUTION OF VORTICAL STRUCTURES IN INDETERMINATE-ORIGIN NOZZLE JETS. <i>Journal of Flow Visualization and Image Processing</i> , 2007, 14, 143-154.	0.3	3

#	ARTICLE	IF	CITATIONS
55	Compressible large eddy simulations of wall-bounded turbulent flows using a semi-implicit numerical scheme for low Mach number aeroacoustics. <i>Journal of Computational Physics</i> , 2006, 215, 526-551.	1.9	19
56	An investigation of bimodal jet trajectory in flow through scaled models of the human vocal tract. <i>Experiments in Fluids</i> , 2006, 40, 683-696.	1.1	48
57	An investigation of jet trajectory in flow through scaled vocal fold models with asymmetric glottal passages. <i>Experiments in Fluids</i> , 2006, 41, 735-748.	1.1	34
58	Noncanonical Short Hole Jets-in-Crossflow for Turbine Film Cooling. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2006, 73, 474-482.	1.1	14
59	The occurrence of the Coanda effect in pulsatile flow through static models of the human vocal folds. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 1000-1011.	0.5	61
60	Non-Uniform Flow Behavior in a Parallel Plate Flow Chamber Alters Endothelial Cell Responses. <i>Annals of Biomedical Engineering</i> , 2005, 33, 328-336.	1.3	31
61	Surface shear stress measurements around multiple jets in crossflow using the fringe imaging skin friction technique. <i>Experiments in Fluids</i> , 2004, 37, 497-503.	1.1	9
62	Transfer efficiency for airless painting systems. <i>Journal of Coatings Technology Research</i> , 2004, 1, 137-145.	1.2	10
63	Wall Shear Stress Measurements for Conventional Applications and Biomedical Flows (Invited). , 2004, , .		18
64	Near-wall physics of a shear-driven three-dimensional turbulent boundary layer with varying crossflow. <i>Journal of Fluid Mechanics</i> , 2003, 484, 1-39.	1.4	13
65	Flow in a Co-Axial Control Valve. , 2003, , 457.		0
66	Modification of Near-Wall Structure in a Shear-Driven 3-D Turbulent Boundary Layer. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2002, 124, 118-126.	0.8	4
67	Structural features and surface heat transfer associated with a row of short-hole jets in crossflow. <i>International Journal of Heat and Fluid Flow</i> , 2000, 21, 542-553.	1.1	23
68	Curved two-stream turbulent mixing layers revisited. <i>Experimental Thermal and Fluid Science</i> , 1996, 13, 190-205.	1.5	14
69	The influence of interacting strain rates on turbulence in convex boundary layers. <i>Physics of Fluids</i> , 1996, 8, 3163-3171.	1.6	6
70	Evaluation of Vortex-Shedding Flow Meters for Monitoring Air Flows in HVAC Applications. <i>HVAC and R Research</i> , 1995, 1, 282-305.	0.9	7
71	Curved two-stream turbulent mixing layers: three-dimensional structure and streamwise evolution. <i>Journal of Fluid Mechanics</i> , 1994, 270, 1-50.	1.4	32
72	Spanwise averaging of plane mixing layer properties. <i>AIAA Journal</i> , 1992, 30, 835-837.	1.5	19

#	ARTICLE	IF	CITATIONS
73	Turbulent Surface Jet in Channel of Limited Depth. Journal of Hydraulic Engineering, 1989, 115, 1587-1606.	0.7	27