George Papadakis

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Analysis of turbulent coagulation in a jet with discretised population balance and DNS. Journal of Fluid Mechanics, 2022, 937, .	1.4	6
2	Analysis of wall mass transfer in turbulent pipe flow combining extended proper orthogonal decomposition and Fukagata-Iwamoto-Kasagi identity. Physical Review Fluids, 2022, 7, .	1.0	3
3	Analysis of interscale energy transfer in a boundary layer undergoing bypass transition. Journal of Fluid Mechanics, 2022, 941, .	1.4	10
4	On the interaction of turbulence with nucleation and growth in reaction crystallisation. Journal of Fluid Mechanics, 2022, 944, .	1.4	8
5	Reconstruction of largeâ€scale flow structures in a stirred tank from limited sensor data. AICHE Journal, 2021, 67, e17348.	1.8	15
6	A methodology for coupling DNS and discretised population balance for modelling turbulent precipitation. International Journal of Heat and Fluid Flow, 2020, 86, 108689.	1.1	6
7	The role of coherent structures and inhomogeneity in near-field interscale turbulent energy transfers. Journal of Fluid Mechanics, 2020, 896, .	1.4	20
8	Uncertainty quantification of sensitivities of time-average quantities in chaotic systems. Physical Review E, 2020, 101, 022223.	0.8	7
9	Application of Generalized Polynomial Chaos for Quantification of Uncertainties of Time Averages and Their Sensitivities in Chaotic Systems. Algorithms, 2020, 13, 90.	1.2	1
10	Evolution of conditionally averaged second-order structure functions in a transitional boundary layer. Physical Review Fluids, 2020, 5, .	1.0	5
11	Feedback control of chaotic systems using multiple shooting shadowing and application to Kuramoto–Sivashinsky equation. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2020, 476, 20200322.	1.0	1
12	DSMC simulations of turbulent flows at moderate Reynolds numbers. AIP Conference Proceedings, 2019, , .	0.3	0
13	A preconditioned Multiple Shooting Shadowing algorithm for the sensitivity analysis of chaotic systems. Journal of Computational Physics, 2019, 398, 108861.	1.9	9
14	Wave propagation in stenotic vessels; theoretical analysis and comparison between 3D and 1D fluid–structure-interaction models. Journal of Fluids and Structures, 2019, 88, 352-366.	1.5	9
15	Nonlinear optimal control of transition due to a pair of vortical perturbations using a receding horizon approach. Journal of Fluid Mechanics, 2019, 861, 524-555.	1.4	16
16	Data-based, reduced-order, dynamic estimator for reconstruction of nonlinear flows exhibiting limit-cycle oscillations. Physical Review Fluids, 2019, 4, .	1.0	6
17	Reduced power consumption in stirred vessels by means of fractal impellers. AICHE Journal, 2018, 64, 1485-1499.	1.8	36
18	Direct numerical simulation of heat transfer from a cylinder immersed in the production and decay regions of grid-element turbulence. Journal of Fluid Mechanics, 2018, 847, 452-488.	1.4	10

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19	Evolution of passive scalar statistics in a spatially developing turbulence. Physical Review Fluids, 2018, 3, .	1.0	4
20	Gas-kinetic simulation of sustained turbulence in minimal Couette flow. Physical Review Fluids, 2018, 3, .	1.0	12
21	Resolvent analysis of separated and attached flows around an airfoil at transitional Reynolds number. Physical Review Fluids, 2018, 3, .	1.0	17
22	Reduced mixing time in stirred vessels by means of irregular impellers. Physical Review Fluids, 2018, 3, .	1.0	15
23	Turbulence dissipation and the role of coherent structures in the near wake of a square prism. Physical Review Fluids, 2018, 3, .	1.0	11
24	Molecular-Level Simulations of Turbulence and Its Decay. Physical Review Letters, 2017, 118, 064501.	2.9	72
25	Effect of trailing edge shape on the separated flow characteristics around an airfoil at low Reynolds number: A numerical study. Physics of Fluids, 2017, 29, .	1.6	49
26	Genesis and evolution of velocity gradients in near-field spatially developing turbulence. Journal of Fluid Mechanics, 2017, 815, 295-332.	1.4	33
27	DNS investigation of the dynamical behaviour of trailing vortices in unbaffled stirred vessels at transitional Reynolds numbers. Physics of Fluids, 2017, 29, .	1.6	13
28	Nonlinear optimal control of bypass transition in a boundary layer flow. Physics of Fluids, 2017, 29, .	1.6	22
29	The turbulence cascade in the near wake of aÂsquare prism. Journal of Fluid Mechanics, 2017, 825, 315-352.	1.4	67
30	Closed-loop control of boundary layer streaks induced by free-stream turbulence. Physical Review Fluids, 2016, 1, .	1.0	9
31	An iterative method for the computation of the response of linearised Navier–Stokes equations to harmonic forcing and application to forced cylinder wakes. International Journal for Numerical Methods in Fluids, 2014, 74, 794-817.	0.9	9
32	Optimal state feedback control of streaks and görtler vortices induced by free-stream vortical disturbances. , 2014, , .		1
33	Wave Propagation in Tapered Vessels: New Analytic Solutions That Account for Vessel Distensibility and Fluid Compressibility. Journal of Pressure Vessel Technology, Transactions of the ASME, 2014, 136, .	0.4	2
34	Performance Limits for Control of Boundary Layer Streaks Induced by Free Stream Turbulence. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2014, 47, 7007-7012.	0.4	0
35	Wave Propagation in Tapered Vessels: New Analytic Solutions That Account for Vessel Distensibility and Fluid Compressibility. , 2013, , .		0
36	Investigation of the effect of external periodic flow pulsation on a cylinder wake using linear stability analysis. Physics of Fluids, 2011, 23, .	1.6	6

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37	New analytic solutions for wave propagation in flexible, tapered vessels with reference to mammalian arteries. Journal of Fluid Mechanics, 2011, 689, 465-488.	1.4	8
38	Linear Stability Analysis and Buckling of Two-Layered Shells Under External Circumferential Loading: A Numerical Investigation. Journal of Pressure Vessel Technology, Transactions of the ASME, 2010, 132,	0.4	1
39	Computational analysis of flow structure and particle deposition in a single asthmatic human airway bifurcation. Journal of Biomechanics, 2010, 43, 2453-2459.	0.9	16
40	Fractional fourier-based filter for denoising elastograms. , 2010, 2010, 4028-31.		4
41	Coupling 3D and 1D fluid–structureâ€interaction models for wave propagation in flexible vessels using a finite volume pressureâ€correction scheme. Communications in Numerical Methods in Engineering, 2009, 25, 533-551.	1.3	17
42	Linear and nonâ€linear simulations of feedback control in plane Poiseuille flow. International Journal for Numerical Methods in Fluids, 2009, 59, 907-925.	0.9	3
43	Effect of tube spacing on the vortex shedding characteristics of laminar flow past an inline tube array: A numerical study. Computers and Fluids, 2009, 38, 950-964.	1.3	50
44	Design of poiseuille flow controllers using the method of inequalities. International Journal of Automation and Computing, 2009, 6, 14-21.	4.5	1
45	Linear Stability Analysis and Buckling of Two-Layered Shells Under External Circumferential Loading: A Numerical Investigation. , 2009, , .		0
46	A novel pressure–velocity formulation and solution method for fluid–structure interaction problems. Journal of Computational Physics, 2008, 227, 3383-3404.	1.9	20
47	Buckling of thick cylindrical shells under external pressure: A new analytical expression for the critical load and comparison with elasticity solutions. International Journal of Solids and Structures, 2008, 45, 5308-5321.	1.3	37
48	Linear Stability Analysis and Application of a New Solution Method of the Elastodynamic Equations Suitable for a Unified Fluid-Structure-Interaction Approach. Journal of Pressure Vessel Technology, Transactions of the ASME, 2008, 130, .	0.4	2
49	Minimizing transient energy growth in plane Poiseuille flow. Proceedings of the Institution of Mechanical Engineers Part I: Journal of Systems and Control Engineering, 2008, 222, 323-331.	0.7	9
50	Simulations of Feedback Control of Early Transition in Poiseuille Flow. IUTAM Symposium on Cellular, Molecular and Tissue Mechanics, 2008, , 345-348.	0.1	0
51	Linear quadratic control of plane Poiseuille flow–the transient behaviour. International Journal of Control, 2007, 80, 1912-1930.	1.2	22
52	Large eddy simulation of pulsating flow over a circular cylinder at subcritical Reynolds number. Computers and Fluids, 2007, 36, 299-312.	1.3	44
53	Large eddy simulation of cross-flow through a staggered tube bundle at subcritical Reynolds number. Journal of Fluids and Structures, 2007, 23, 1215-1230.	1.5	50
54	A linear state-space representation of plane Poiseuille flow for control design: a tutorial. International Journal of Modelling, Identification and Control, 2006, 1, 272.	0.2	25

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55	Near-Wall Modification of an Explicit Algebraic Reynolds Stress Model Using Elliptic Blending. Flow, Turbulence and Combustion, 2006, 77, 257-275.	1.4	1
56	Investigation of laminar flow in a stirred vessel at low Reynolds numbers. Chemical Engineering Science, 2006, 61, 2762-2770.	1.9	33
57	Determination of mixing time and degree of homogeneity in stirred vessels with large eddy simulation. Chemical Engineering Science, 2005, 60, 2293-2302.	1.9	89
58	Study of the Effect of Flow Pulsation on the Flow Field and Heat Transfer Over an Inline Cylinder Array Using LES. , 2005, , 813-822.		6
59	Numerical Simulation of Turbulent Flow Characteristics in a Stirred Vessel Using the LES and RANS Approaches with the Sliding/Deforming Mesh Methodology. Chemical Engineering Research and Design, 2004, 82, 834-848.	2.7	109
60	On Spatial and Temporal Variations and Estimates of Energy Dissipation in Stirred Reactors. Chemical Engineering Research and Design, 2004, 82, 1188-1198.	2.7	40
61	Large Eddy Simulation of Turbulent Flow in a Rushton Impeller Stirred Reactor with Sliding-Deforming Mesh Methodology. Chemical Engineering and Technology, 2004, 27, 257-263.	0.9	32
62	Numerical simulation of the flow and heat transfer around a cylinder with a pulsating approaching flow at a low Reynolds number. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 105-119.	1.1	8
63	Numerical evaluation of alternate tube configurations for particle deposition rate reduction in heat exchanger tube bundles. International Journal of Heat and Fluid Flow, 2001, 22, 525-536.	1.1	57
64	An experimental and numerical study of the flow past elliptic cylinder arrays. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2001, 215, 1287-1301.	1.1	21
65	A local grid refinement method for three-dimensional turbulent recirculating flows. International Journal for Numerical Methods in Fluids, 1999, 31, 1157-1172.	0.9	11
66	A locally modified second order upwind scheme for convection terms discretization. International Journal of Numerical Methods for Heat and Fluid Flow, 1995, 5, 49-62.	1.6	46