

# Kai Zhang

## List of Publications by Year in descending order

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32  
papers

589  
citations

566801

15  
h-index

610482

24  
g-index

32  
all docs

32  
docs citations

32  
times ranked

323  
citing authors

#	ARTICLE	IF	CITATIONS
1	Numerical study on the effect of shape modification to the flow around circular cylinders. Journal of Wind Engineering and Industrial Aerodynamics, 2016, 152, 23-40.	1.7	61
2	On the formation of three-dimensional separated flows over wings under tip effects. Journal of Fluid Mechanics, 2020, 895, .	1.4	57
3	Convolutional neural networks for fluid flow analysis: toward effective metamodeling and low dimensionalization. Theoretical and Computational Fluid Dynamics, 2021, 35, 633-658.	0.9	48
4	Sparse identification of nonlinear dynamics with low-dimensionalized flow representations. Journal of Fluid Mechanics, 2021, 926, .	1.4	42
5	Generalization techniques of neural networks for fluid flow estimation. Neural Computing and Applications, 2022, 34, 3647-3669.	3.2	36
6	An Efficient Stochastic Clustering Auction for Heterogeneous Robotic Collaborative Teams. Journal of Intelligent and Robotic Systems: Theory and Applications, 2013, 72, 541-558.	2.0	29
7	An Overview of the Combined Interface Boundary Condition Method for Fluid-Structure Interaction. Archives of Computational Methods in Engineering, 2017, 24, 891-934.	6.0	29
8	Dynamic mode decomposition based analysis of flow past a transversely oscillating cylinder. Physics of Fluids, 2021, 33, .	1.6	26
9	A smoothed finite element approach for computational fluid dynamics: applications to incompressible flows and fluid-structure interaction. Computational Mechanics, 2018, 62, 1037-1057.	2.2	25
10	Flow-induced vibration on a circular cylinder in planar shear flow. Computers and Fluids, 2014, 105, 138-154.	1.3	23
11	Numerical simulation of vortex induced vibrations of a flexibly mounted wavy cylinder at subcritical Reynolds number. Ocean Engineering, 2017, 133, 170-181.	1.9	23
12	Laminar separated flows over finite-aspect-ratio swept wings. Journal of Fluid Mechanics, 2020, 905, .	1.4	21
13	Vortex-induced vibrations of two rigidly coupled circular cylinders of unequal diameters at low Reynolds number. Physics of Fluids, 2021, 33, .	1.6	20
14	Large eddy simulation of flow over inclined wavy cylinders. Journal of Fluids and Structures, 2018, 80, 179-198.	1.5	17
15	AC-CBS-Based Partitioned Semi-Implicit Coupling Algorithm for Fluid-Structure Interaction Using Stabilized Second-Order Pressure Scheme. Communications in Computational Physics, 2017, 21, 1449-1474.	0.7	16
16	Wake dynamics behind a rotary oscillating cylinder analyzed with proper orthogonal decomposition. Ocean Engineering, 2020, 218, 108185.	1.9	16
17	Vortex characteristics and flow-induced forces of the wavy cylinder at a subcritical Reynolds number. Ocean Engineering, 2021, 222, 108593.	1.9	13
18	Combined interface boundary condition method for fluid-structure interaction: Some improvements and extensions. Ocean Engineering, 2015, 109, 243-255.	1.9	12

#	ARTICLE	IF	CITATIONS
19	Numerical study of flow past a transversely oscillating wavy cylinder at $Re=5000$ . <i>Ocean Engineering</i> , 2018, 169, 539-550.	1.9	12
20	Laminar vortex dynamics around forward-swept wings. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	11
21	Linear modal instabilities around post-stall swept finite wings at low Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2022, 944, .	1.4	11
22	A novel Stochastic Clustering Auction for task allocation in multi-robot teams. , 2010, , .		7
23	Fluctuating wind and wave simulations and its application in structural analysis of a semi-submersible offshore platform. <i>International Journal of Naval Architecture and Ocean Engineering</i> , 2019, 11, 624-637.	1.0	7
24	Bistable states in the wake of a wavy cylinder. <i>Physics of Fluids</i> , 2020, 32, .	1.6	7
25	Numerical Simulation of Fluctuating Wind Effects on an Offshore Deck Structure. <i>Shock and Vibration</i> , 2017, 2017, 1-17.	0.3	6
26	Human-robot Team Coordination That Considers Human Fatigue. <i>International Journal of Advanced Robotic Systems</i> , 2014, 11, 91.	1.3	4
27	Wake Dynamics of Finite Aspect Ratio Wings. Part III: TriGlobal Linear Stability Analysis. , 2019, , .		3
28	Low-Reynolds-Number Aerodynamic Characteristics of Airfoils with Piezocomposite Trailing Surfaces. <i>AIAA Journal</i> , 2022, 60, 2701-2706.	1.5	3
29	Wake interactions between two side-by-side circular cylinders with different sizes. <i>Physical Review Fluids</i> , 2022, 7, .	1.0	2
30	Wake Dynamics of Finite Aspect Ratio Wings. Part II: Computational Study. , 2019, , .		1
31	From biglobal to triglobal resolvent analysis: laminar separated flows over swept wings. , 2022, , .		1
32	Aerodynamic characterization of low-aspect-ratio swept wings at $Re=400$ . , 2022, , .		0