

# Dai Zhou

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

1,206  
citations

430442

18  
h-index

395343

33  
g-index

62  
all docs

62  
docs citations

62  
times ranked

742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Two-degree-of-freedom flow-induced vibrations on isolated and tandem cylinders with varying natural frequency ratios. <i>Journal of Fluids and Structures</i> , 2012, 35, 50-75.	1.5	173
2	Three-dimensional Improved Delayed Detached Eddy Simulation of a two-bladed vertical axis wind turbine. <i>Energy Conversion and Management</i> , 2017, 133, 235-248.	4.4	94
3	Short-term wind speed predicting framework based on EEMD-GA-LSTM method under large scaled wind history. <i>Energy Conversion and Management</i> , 2021, 227, 113559.	4.4	91
4	Airfoil optimization to improve power performance of a high-solidity vertical axis wind turbine at a moderate tip speed ratio. <i>Energy</i> , 2018, 150, 236-252.	4.5	88
5	2-D regional short-term wind speed forecast based on CNN-LSTM deep learning model. <i>Energy Conversion and Management</i> , 2021, 244, 114451.	4.4	87
6	The impact of pitch motion of a platform on the aerodynamic performance of a floating vertical axis wind turbine. <i>Energy</i> , 2017, 119, 369-383.	4.5	65
7	Investigation of V-shaped blade for the performance improvement of vertical axis wind turbines. <i>Applied Energy</i> , 2020, 260, 114326.	5.1	41
8	Laminar Flow Patterns Around Three Side-By-Side Arranged Circular Cylinders Using Semi-Implicit Three-Step Taylor-Characteristic-Based-Split (3-TCBS) Algorithm. <i>Engineering Applications of Computational Fluid Mechanics</i> , 2013, 7, 1-12.	1.5	37
9	Aerodynamic noise assessment for a vertical axis wind turbine using Improved Delayed Detached Eddy Simulation. <i>Renewable Energy</i> , 2019, 141, 559-569.	4.3	37
10	Partitioned subiterative coupling schemes for aeroelasticity using combined interface boundary condition method. <i>International Journal of Computational Fluid Dynamics</i> , 2014, 28, 272-300.	0.5	29
11	Flow instabilities in the wake of a circular cylinder with parallel dual splitter plates attached. <i>Journal of Fluid Mechanics</i> , 2019, 874, 299-338.	1.4	28
12	Investigation of wake characteristics for the offshore floating vertical axis wind turbines in pitch and surge motions of platforms. <i>Energy</i> , 2019, 166, 471-489.	4.5	28
13	Dynamic mode decomposition based analysis of flow past a transversely oscillating cylinder. <i>Physics of Fluids</i> , 2021, 33, .	1.6	26
14	Wake-Induced Vibrations of a Circular Cylinder behind a Stationary Square Cylinder Using a Semi-Implicit Characteristic-Based Split Scheme. <i>Journal of Engineering Mechanics - ASCE</i> , 2014, 140, .	1.6	24
15	Flow characteristics and flow-induced forces of a stationary and rotating triangular cylinder with different incidence angles at low Reynolds numbers. <i>Journal of Fluids and Structures</i> , 2014, 45, 107-123.	1.5	23
16	Numerical simulation of vortex induced vibrations of a flexibly mounted wavy cylinder at subcritical Reynolds number. <i>Ocean Engineering</i> , 2017, 133, 170-181.	1.9	23
17	Vortex-induced vibrations of two rigidly coupled circular cylinders of unequal diameters at low Reynolds number. <i>Physics of Fluids</i> , 2021, 33, .	1.6	20
18	A two-step Taylor-characteristic-based Galerkin method for incompressible flows and its application to flow over triangular cylinder with different incidence angles. <i>International Journal for Numerical Methods in Fluids</i> , 2010, 62, 1181-1208.	0.9	19

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19	Topological description of near-wall flows around a surface-mounted square cylinder at high Reynolds numbers. <i>Journal of Fluid Mechanics</i> , 2022, 933, .	1.4	19
20	Characterization of wake interference between two tandem offshore floating vertical-axis wind turbines: Effect of platform pitch motion. <i>Energy Conversion and Management</i> , 2022, 265, 115769.	4.4	18
21	Large eddy simulation of flow over inclined wavy cylinders. <i>Journal of Fluids and Structures</i> , 2018, 80, 179-198.	1.5	17
22	Wake dynamics behind a rotary oscillating cylinder analyzed with proper orthogonal decomposition. <i>Ocean Engineering</i> , 2020, 218, 108185.	1.9	16
23	Turbulent wake suppression of circular cylinder flow by two small counter-rotating rods. <i>Physics of Fluids</i> , 2020, 32, .	1.6	16
24	A shape optimization of H-shape Darrieus wind turbine under a given range of inlet wind speed. <i>Renewable Energy</i> , 2020, 159, 286-299.	4.3	13
25	Numerical investigation of mixed-mode crack growth in ductile material using elastic-plastic XFEM. <i>Journal of the Brazilian Society of Mechanical Sciences and Engineering</i> , 2016, 38, 1689-1699.	0.8	12
26	Numerical study of flow past a transversely oscillating wavy cylinder at Re=5000. <i>Ocean Engineering</i> , 2018, 169, 539-550.	1.9	12
27	Modification of three-dimensional instability in the planar shear flow around two circular cylinders in tandem. <i>Physics of Fluids</i> , 2019, 31, .	1.6	12
28	Wind-capture-accelerate device for performance improvement of vertical-axis wind turbines: External diffuser system. <i>Energy</i> , 2022, 239, 122196.	4.5	12
29	Dynamic response of a cable with triangular cross section subject to uniform flow at Reynolds number 3900. <i>Physics of Fluids</i> , 2020, 32, .	1.6	11
30	Investigation of pitch angles on the aerodynamics of twin-VAWT under staggered arrangement. <i>Ocean Engineering</i> , 2022, 254, 111385.	1.9	10
31	Numerical Investigation of Effects of Turbulence Intensity on Aerodynamic Performance for Straight-Bladed Vertical-Axis Wind Turbines. <i>Journal of Energy Engineering - ASCE</i> , 2021, 147, .	1.0	9
32	Large-eddy simulations of flow past a circular cylinder near a free surface. <i>Physics of Fluids</i> , 2021, 33, .	1.6	9
33	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
34	Bistable states in the wake of a wavy cylinder. <i>Physics of Fluids</i> , 2020, 32, .	1.6	7
35	Aerodynamic performance assessment of H-type vertical axis wind turbine under pitch motion. <i>Energy</i> , 2021, 225, 120202.	4.5	7
36	The mean wake model and its novel characteristic parameter of H-rotor VAWTs based on random forest method. <i>Energy</i> , 2022, 239, 122456.	4.5	7

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37	Numerical Simulation of Fluctuating Wind Effects on an Offshore Deck Structure. Shock and Vibration, 2017, 2017, 1-17.	0.3	6
38	Transition to chaos in the wake of a circular cylinder near a moving wall at low Reynolds numbers. Physics of Fluids, 2020, 32, 091703.	1.6	6
39	Accuracy Improvement of Smoothed Particle Hydrodynamics. Engineering Applications of Computational Fluid Mechanics, 2008, 2, 244-251.	1.5	5
40	Framework of airfoil max lift-to-drag ratio prediction using hybrid feature mining and Gaussian process regression. Energy Conversion and Management, 2021, 243, 114339.	4.4	5
41	Direct numerical simulation of flow over a cylinder immersed in the grid-generated turbulence. Physics of Fluids, 2022, 34, .	1.6	5
42	Nonlinear anisotropic composite biomechanical modeling of human skin. Journal of Shanghai Jiaotong University (Science), 2010, 15, 363-367.	0.5	4
43	Mesh motion approach based on spring analogy method for unstructured meshes. Journal of Shanghai Jiaotong University (Science), 2010, 15, 138-146.	0.5	4
44	Flow characteristics and dynamic responses of a parked straight-bladed vertical axis wind turbine. Energy Science and Engineering, 2019, 7, 1767-1783.	1.9	3
45	Three-dimensional wake transition in the flow over four square cylinders at low Reynolds numbers. AIP Advances, 2020, 10, 015142.	0.6	3
46	Predicting Travel Demand of a Docked Bikesharing System Based on LSGC-LSTM Networks. IEEE Access, 2021, 9, 92189-92203.	2.6	3
47	Dynamics and stability of the wake behind a circular cylinder in the vicinity of a plane moving wall. Ocean Engineering, 2021, 242, 110034.	1.9	3
48	Laminar wake suppression of airfoil by rotating rod at low Reynolds number. Physical Review Fluids, 2022, 7, .	1.0	3
49	Large eddy simulation for wind field analysis based on stabilized finite element method. Journal of Zhejiang University: Science A, 2011, 12, 278-290.	1.3	2
50	Numerical Simulation of Haze-Fog Particle Dispersion in the Typical Urban Community by Using Discrete Phase Model. Atmosphere, 2020, 11, 381.	1.0	2
51	Fatigue assessment on local components of a semi-submersible platform subjected to wind and wave loads. Journal of Vibroengineering, 2018, 20, 988-1006.	0.5	2
52	A method to improve first order approximation of smoothed particle hydrodynamics. Journal of Shanghai Jiaotong University (Science), 2008, 13, 136-138.	0.5	1
53	Parametric vibration and vibration reduction of cables in cable-stayed space latticed structure. Journal of Shanghai Jiaotong University (Science), 2008, 13, 145-149.	0.5	1
54	A semi-implicit three-step method based on SUPG finite element formulation for flow in lid driven cavities with different geometries. Journal of Zhejiang University: Science A, 2011, 12, 33-45.	1.3	1

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55	Wind pressure distribution and wind-induced dynamic response for spatial groined latticed vaults. Journal of Shanghai Jiaotong University (Science), 2008, 13, 391-399.	0.5	0
56	Improvement of the second order approximation of the smoothed particle hydrodynamics. Journal of Shanghai Jiaotong University (Science), 2008, 13, 404-407.	0.5	0
57	Novel mesh technique and its application in the wind field simulation for flexible spatial structure. Journal of Shanghai Jiaotong University (Science), 2010, 15, 257-266.	0.5	0
58	Biomechanical properties and modeling of skin with laser influence. Journal of Shanghai Jiaotong University (Science), 2011, 16, 610-613.	0.5	0
59	Wind-induced effect of a spatial latticed dome structure using stabilized finite element method. Journal of Shanghai Jiaotong University (Science), 2016, 21, 7-17.	0.5	0
60	Ultimate Strength of Annular Reinforced Concrete Members Under Combined Actions. Journal of Shanghai Jiaotong University (Science), 2019, 24, 430-438.	0.5	0
61	The Performance Assessment of a Semisubmersible Platform Subjected to Wind and Waves by a CFD/6-DOF Approach. Shock and Vibration, 2020, 2020, 1-16.	0.3	0
62	Analyzing Rail Traffic Diversion Based on Machine Learning Technique considering Transportation Security. Journal of Advanced Transportation, 2022, 2022, 1-14.	0.9	0