Yong Zhao

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6976658/publications.pdf

Version: 2024-02-01

72	839	471061	525886
papers	citations	17	27
		h-index	g-index

77	77	77	573
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A novel dynamic adaptive unstructured mesh algorithm forÂsimulating multiâ€object relative motion in incompressible fluid. International Journal for Numerical Methods in Fluids, 2022, 94, 1583-1610.	0.9	1
2	Role of plastic zone porosity and permeability in sand production in weak sandstone reservoirs. Underground Space (China), 2022, 7, 1003-1020.	3.4	2
3	High-Fidelity 2-Way FSI Simulation of a Wind Turbine Using Fully Structured Multiblock Meshes in OpenFoam for Accurate Aero-Elastic Analysis. Fluids, 2022, 7, 169.	0.8	2
4	Numerical investigation of sand production mechanisms in weak sandstone formations with various reservoir fluids. International Journal of Rock Mechanics and Minings Sciences, 2022, 154, 105096.	2.6	6
5	Numerical scheme for solving the Richardâ€™s equation based on finite volume model with unstructured mesh and implicit dual-time stepping. Computers and Geotechnics, 2022, 147, 104768.	2.3	6
6	Arbitrary Hybrid Turbulence Modeling Approach for High-Fidelity NREL Phase VI Wind Turbine CFD Simulation. Fluids, 2022, 7, 236.	0.8	0
7	3D NUMERICAL STUDY OF TEMPERATURE PATTERNS IN A FEMALE BREAST WITH TUMOR USING A REALISTIC MULTI-LAYERED MODEL. The Bulletin, 2021, 389, 6-13.	0.0	0
8	Patient-specific CFD simulation of aerodynamics for nasal pathology: a combined computational and experimental study. Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization, 2021, 9, 470-479.	1.3	2
9	3D Multidisciplinary Automated Design Optimization Toolbox for Wind Turbine Blades. Processes, 2021, 9, 581.	1.3	6
10	Patient/Breast-Specific Detection of Breast Tumor Based on Patientsâ€™ Thermograms, 3D Breast Scans, and Reverse Thermal Modelling. Applied Sciences (Switzerland), 2021, 11, 6565.	1.3	1
11	Coupled CFDâ€“DEM numerical modelling of perforation damage and sand production in weak sandstone formation. Geomechanics for Energy and the Environment, 2021, 28, 100255.	1.2	11
12	An Arbitrary Hybrid Turbulence Modeling Approach for Efficient and Accurate Automotive Aerodynamic Analysis and Design Optimization. Fluids, 2021, 6, 407.	0.8	1
13	Inverse thermal modeling and experimental validation for breast tumor detection by using highly personalized surface thermal patterns and geometry of the breast. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2020, , 095440622097059.	1.1	2
14	Investigation of High Lift Force Generation of Dragonfly Wing by a Novel Advanced Mode in Hover. Fluids, 2020, 5, 59.	0.8	2
15	Comparative Analysis of Turbulence Models for Automotive Aerodynamic Simulation and Design. International Journal of Automotive Technology, 2019, 20, 1145-1152.	0.7	15
16	A sand production prediction model for weak sandstone reservoir in Kazakhstan. Journal of Rock Mechanics and Geotechnical Engineering, 2019, 11, 760-769.	3.7	19
17	The Multigrid Method. , 2019, , 63-86.		0
18	IOM FSI Model Validations and Applications. , 2019, , 145-272.		0

#	Article	IF	Citations
19	ALE FSI Model Validations and Applications. , 2019, , 409-480.		0
20	Mathematical Formulation for Incompressible Flow Solver. , 2019, , 33-51.		0
21	Mathematical Formulation for Computational Structural Dynamics. , 2019, , 53-62.		0
22	Parallel Computation. , 2019, , 87-99.		0
23	The Immersed Object Method With Overlapping Grids. , 2019, , 101-108.		0
24	Arbitrary Lagrangianâ€“Eulerian (ALE) Method and Fluid-Structure Interaction. , 2019, , 127-144.		0
25	IMM FSI Model Validations and Applications for Incompressible Flows. , 2019, , 273-354.		0
26	IMM FSI Model Validations and Applications for Compressible Flows. , 2019, , 355-408.		0
27	Numerical and Experimental Investigations on the Hydrodynamic Performance of a Tidal Current Turbine. Journal of Offshore Mechanics and Arctic Engineering, 2018, 140, .	0.6	3
28	Numerical investigations on aerodynamic forces of deformable foils in hovering motions. Physics of Fluids, 2017, 29, .	1.6	12
29	Aircraft Tire Temperature at Touchdown with Wheel Prerotation. Journal of Aircraft, 2017, 54, 926-938.	1.7	16
30	An unstructured mesh arbitrary Lagrangian-Eulerian unsteady incompressible flow solver and its application to insect flight aerodynamics. Physics of Fluids, 2016, 28, .	1.6	12
31	Dragonfly (Sympetrum flaveolum) flight: Kinematic measurement and modelling. Journal of Fluids and Structures, 2013, 40, 115-126.	1.5	31
32	Stiffness evaluation of the leading edge of the dragonfly wing via laser vibrometer. Materials Letters, 2013, 97, 166-168.	1.3	22
33	A Preconditioned Implicit Free-Surface Capture Scheme for Large Density Ratio on Tetrahedral Grids. Communications in Computational Physics, 2012, 11, 215-248.	0.7	7
34	A novel coupled level set and volume of fluid method for sharp interface capturing on 3D tetrahedral grids. Journal of Computational Physics, 2010, 229, 2573-2604.	1.9	56
35	Kinematics of Dragonfly (Sympetrum flaveolum) Flight. IFMBE Proceedings, 2010, , 56-59.	0.2	0
36	Parallel unstructured multigrid simulation of 3D unsteady flows and fluidâ€“structure interaction in mechanical heart valve using immersed membrane method. Computers and Fluids, 2009, 38, 71-79.	1.3	11

#	Article	IF	Citations
37	ADAPTIVE IMMERSED OBJECT METHOD FOR MOVING OBJECTS IN FLOW FIELDS. , 2009, , .		0
38	Numerical simulation of 3D fluidâ€“structure interaction flow using an immersed object method with overlapping grids. Computers and Structures, 2007, 85, 749-762.	2.4	32
39	A matrix-free implicit unstructured multigrid finite volume method for simulating structural dynamics and fluidâ€“structure interaction. Journal of Computational Physics, 2007, 225, 120-144.	1.9	20
40	On the characteristics-based ACM for incompressible flows. Journal of Computational Physics, 2007, 227, 1-11.	1.9	13
41	Particle Image Velocimetry Study of Pulsatile Flow in Bi-leaflet Mechanical Heart Valves with Image Compensation Method. Journal of Biological Physics, 2007, 32, 531-551.	0.7	10
42	A 3D implicit unstructured-grid finite volume method for structural dynamics. Computational Mechanics, 2007, 40, 299-312.	2.2	16
43	An efficient parallel/unstructured-multigrid preconditioned implicit method for simulating 3D unsteady compressible flows with moving objects. Journal of Computational Physics, 2006, 215, 661-690.	1.9	27
44	Parallel computation of unsteady incompressible viscous flows around moving rigid bodies using an immersed object method with overlapping grids. Journal of Computational Physics, 2005, 207, 151-172.	1.9	32
45	Parallel-multigrid computation of unsteady incompressible viscous flows using a matrix-free implicit method and high-resolution characteristics-based scheme. Computer Methods in Applied Mechanics and Engineering, 2005, 194, 3949-3983.	3.4	36
46	An efficient parallel computation of unsteady incompressible viscous flow with elastic moving and compliant boundaries on unstructured grids. International Journal for Numerical Methods in Engineering, 2005, 64, 2072-2104.	1.5	5
47	NUMERICAL SIMULATION OF 3D FLUID-STRUCTURE INTERACTION USING AN IMMERSED MEMBRANE METHOD. Modern Physics Letters B, 2005, 19, 1447-1450.	1.0	6
48	Parallel Unsteady 3D MG Incompressible Flow. , 2005, , 443-450.		0
49	Numerical Simulation of a Systemic Flow Test Rig. ASAIO Journal, 2004, 50, 54-64.	0.9	10
50	Computation of complex turbulent flow using matrix-free implicit dual time-stepping scheme and LRN turbulence model on unstructured grids. Computers and Fluids, 2004, 33, 119-136.	1.3	9
51	Parallel computation of unsteady three-dimensional incompressible viscous flow using an unstructured multigrid method. Computers and Structures, 2004, 82, 2425-2436.	2.4	25
52	A finite volume unstructured multigrid method for efficient computation of unsteady incompressible viscous flows. International Journal for Numerical Methods in Fluids, 2004, 46, 59-84.	0.9	7
53	Numerical study of steady/unsteady flow and heat transfer in porous media using a characteristics-based matrix-free implicit FV method on unstructured grids. International Journal of Heat and Fluid Flow, 2004, 25, 1015-1033.	1.1	25
54	Parallel unsteady incompressible viscous flow computations using an unstructured multigrid method. Journal of Computational Physics, 2003, 192, 277-311.	1.9	41

#	Article	IF	Citations
55	A general method for simulation of fluid flows with moving and compliant boundaries on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2003, 192, 4439-4466.	3.4	35
56	Parallel computation of unsteady three-dimensional incompressible viscous flow using an unstructured multigrid method. , 2003, , 1148-1152.		1
57	Numerical simulation of opening process in a bileaflet mechanical heart valve under pulsatile flow condition. Journal of Heart Valve Disease, 2003, 12, 245-55.	0.5	21
58	A High-Resolution Characteristics-Based Implicit Dual Time-Stepping VOF Method for Free Surface Flow Simulation on Unstructured Grids. Journal of Computational Physics, 2002, 183, 233-273.	1.9	76
59	Simulation of micro flows with moving boundaries using high-order upwind FV method on unstructured grids. Computational Mechanics, 2002, 28, 66-75.	2.2	11
60	Parallel Computation of Unsteady Incompressible Viscous Flows Using an Unstructured Multigrid Method. , 2002, , .		1
61	Simulations of flow through fluid/porous layers by a characteristic-based method on unstructured grids. International Journal for Numerical Methods in Engineering, 2001, 50, 2443-2457.	1.5	3
62	Title is missing!. Journal of Scientific Computing, 2001, 16, 553-568.	1.1	3
63	Higher-Order Characteristics-Based Method for Incompressible Flow Computation on Unstructured Grids. AIAA Journal, 2001, 39, 1280-1287.	1.5	26
64	A numerical method for simulation of forced convection in a composite porous/fluid system. International Journal of Heat and Fluid Flow, 2000, 21, 432-441.	1.1	18
65	A high-order characteristics upwind FV method for incompressible flow and heat transfer simulation on unstructured grids. Computer Methods in Applied Mechanics and Engineering, 2000, 190, 733-756.	3.4	57
66	Numerical simulations of fluid flow and convection heat transfer through fluid/porous layers. , 1999, , .		4
67	Computation of shock/boundary-layer interactions in bump channels with transport-type turbulence models. Computer Methods in Applied Mechanics and Engineering, 1999, 173, 55-69.	3.4	4
68	Computation of internal high-speed separated flow with modified B-L and J-K models. International Journal for Numerical Methods in Fluids, 1998, 28, 1053-1071.	0.9	2
69	Stable computation of turbulent flows with a low-Reynolds-number k-Ïµ turbulence model and explicit solver. Advances in Engineering Software, 1997, 28, 487-499.	1.8	13
70	Multigrid Computation of Flow Past Airfoil Using k-Îµ Turbulence Model. Journal of Aerospace Engineering, 1995, 8, 180-188.	0.8	0
71	2D Unstructured Mesh Finite Volume Method for Simulating Structural Dynamics. Applied Mechanics and Materials, 0, 376, 345-348.	0.2	0
72	An URANS Simulation of the Kelvin-Helmholtz Aerodynamic Effect over the Ahmed Body. International Journal of Automotive Science and Technology, 0, , 166-171.	0.5	2