

Fei Xu

List of Publications by Year in descending order

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48
papers

1,742
citations

304368

22
h-index

276539

41
g-index

52
all docs

52
docs citations

52
times ranked

1186
citing authors

#	ARTICLE	IF	CITATIONS
1	Modeling the dual-fuel combustion of porous lycopodium particles and diesel using an analytical simulation framework. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 163, 105458.	2.6	3
2	Finite-element thermal analysis of flows on moving domains with application to modeling of a hydraulic arresting gear. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 144, 963-972.	2.0	2
3	Immersogeometric thermal analysis of flows inside buildings with reconfigurable components. <i>Journal of Thermal Analysis and Calorimetry</i> , 2021, 143, 4107-4117.	2.0	7
4	Computational investigation of left ventricular hemodynamics following bioprosthetic aortic and mitral valve replacement. <i>Mechanics Research Communications</i> , 2021, 112, 103604.	1.0	39
5	Analytical modeling of lycopodium-propane dual-fuel combustion system in premixed mode in counter-flow configuration. <i>Renewable Energy</i> , 2021, 165, 783-798.	4.3	5
6	Numerical study of water-air distribution in unsaturated soil by using lattice Boltzmann method. <i>Computers and Mathematics With Applications</i> , 2021, 81, 573-587.	1.4	5
7	Deicing performances of a road unit driven by a hydronic heating system in severely cold regions of China. <i>Computers and Mathematics With Applications</i> , 2021, 81, 838-850.	1.4	6
8	Spatiotemporal evolutions of forces and vortices of flow past ellipsoidal bubbles: Direct numerical simulation based on a Cartesian grid scheme. <i>Physics of Fluids</i> , 2021, 33, 012108.	1.6	8
9	Computational study of natural ventilation in a sustainable building with complex geometry. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 45, 101153.	1.7	8
10	Pulsating diffusion flames fed with biomass particles in counter-flow arrangement: Zeldovich and Lewis numbers effects. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 46, 101263.	1.7	2
11	Parameterization, geometric modeling, and isogeometric analysis of tricuspid valves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 384, 113960.	3.4	22
12	Comparative analysis of refrigerant performance between LPG and R134a under subtropical climate. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 139, 2925-2935.	2.0	2
13	Thermal performances of saturated porous soil during freezing process using lattice Boltzmann method. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 141, 1529-1541.	2.0	3
14	An immersogeometric formulation for free-surface flows with application to marine engineering problems. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 361, 112748.	3.4	49
15	High-Fidelity Finite Element Modeling and Analysis of Adaptive Gas Turbine Stator-Rotor Flow Interaction at Off-Design Conditions. <i>Journal of Mechanics</i> , 2020, 36, 595-606.	0.7	20
16	Thinner biological tissues induce leaflet flutter in aortic heart valve replacements. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19007-19016.	3.3	50
17	Analytical study of transient counter-flow non-premixed combustion of biomass in presence of thermal radiation. <i>Renewable Energy</i> , 2020, 159, 312-325.	4.3	8
18	Numerical Simulations of Two Back-To-Back Horizontal Axis Tidal Stream Turbines in Free-Surface Flows. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2020, 87, .	1.1	29

#	ARTICLE	IF	CITATIONS
19	Immersogeometric analysis of moving objects in incompressible flows. Computers and Fluids, 2019, 189, 24-33.	1.3	30
20	Immersogeometric analysis of compressible flows with application to aerodynamic simulation of rotorcraft. Mathematical Models and Methods in Applied Sciences, 2019, 29, 905-938.	1.7	34
21	Simulation and optimization of rice husk gasification using intrinsic reaction rate based CFD model. Renewable Energy, 2019, 139, 611-620.	4.3	21
22	A Deep Learning Framework for Design and Analysis of Surgical Bioprosthetic Heart Valves. Scientific Reports, 2019, 9, 18560.	1.6	37
23	Experimental and kinetic studies on the intrinsic reactivities of rice husk char. Renewable Energy, 2019, 135, 608-616.	4.3	16
24	Variation of Geldart classification in MFM simulation of biomass fast pyrolysis considering the decrease of particle density and diameter. Renewable Energy, 2019, 135, 208-217.	4.3	13
25	Multi-scale CFD modeling of gas-solid bubbling fluidization accounting for sub-grid information. Advanced Powder Technology, 2018, 29, 488-498.	2.0	29
26	Major trends and roadblocks in CFD-aided process intensification of biomass pyrolysis. Chemical Engineering and Processing: Process Intensification, 2018, 127, 206-212.	1.8	52
27	A framework for designing patient-specific bioprosthetic heart valves using immersogeometric fluid-structure interaction analysis. International Journal for Numerical Methods in Biomedical Engineering, 2018, 34, e2938.	1.0	93
28	A contact formulation based on a volumetric potential: Application to isogeometric simulations of atrioventricular valves. Computer Methods in Applied Mechanics and Engineering, 2018, 330, 522-546.	3.4	61
29	Three phase heat and mass transfer model for unsaturated soil freezing process: Part 2 - model validation. Open Physics, 2018, 16, 84-92.	0.8	7
30	Articulating Axial-Flow Turbomachinery Rotor Blade for Enabling Variable Speed Gas Turbine Engine. , 2018, , .		1
31	Optimizing Gas-Turbine Operation using Finite-Element CFD Modeling. , 2018, , .		1
32	Three phase heat and mass transfer model for unsaturated soil freezing process: Part 1 - model development. Open Physics, 2018, 16, 75-83.	0.8	12
33	Modeling of a hydraulic arresting gear using fluid-structure interaction and isogeometric analysis. Computers and Fluids, 2017, 142, 3-14.	1.3	74
34	Compressible flows on moving domains: Stabilized methods, weakly enforced essential boundary conditions, sliding interfaces, and application to gas-turbine modeling. Computers and Fluids, 2017, 158, 201-220.	1.3	87
35	Rapid B-rep model preprocessing for immersogeometric analysis using analytic surfaces. Computer Aided Geometric Design, 2017, 52-53, 190-204.	0.5	30
36	Analytical Study of Articulating Turbine Rotor Blade Concept for Improved Off-Design Performance of Gas Turbine Engines. Journal of Engineering for Gas Turbines and Power, 2017, 139, .	0.5	20

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37	Overview of Computational Fluid Dynamics Simulation of Reactor-Scale Biomass Pyrolysis. ACS Sustainable Chemistry and Engineering, 2017, 5, 2783-2798.	3.2	152
38	Macroscopic lattice Boltzmann model for heat and moisture transfer process with phase transformation in unsaturated porous media during freezing process. Open Physics, 2017, 15, 379-393.	0.8	7
39	Optimizing fluid-structure interaction systems with immersogeometric analysis and surrogate modeling: Application to a hydraulic arresting gear. Computer Methods in Applied Mechanics and Engineering, 2017, 316, 668-693.	3.4	86
40	Articulating Turbine Rotor Blade Concept for Improved Off-Design Performance of Gas Turbine Engines. , 2016, , .		2
41	Fluid-Structure Interaction Modeling and Isogeometric Analysis of a Hydraulic Arresting Gear at Full Scale. Modeling and Simulation in Science, Engineering and Technology, 2016, , 463-476.	0.4	0
42	An Immersogeometric Method for the Simulation of Turbulent Flow Around Complex Geometries. Modeling and Simulation in Science, Engineering and Technology, 2016, , 111-125.	0.4	0
43	Direct immersogeometric fluid flow analysis using B-rep CAD models. Computer Aided Geometric Design, 2016, 43, 143-158.	0.5	62
44	Modeling the impact of bubbling bed hydrodynamics on tar yield and its fluctuations during biomass fast pyrolysis. Fuel, 2016, 164, 11-17.	3.4	73
45	Coupling DAEM and CFD for simulating biomass fast pyrolysis in fluidized beds. Journal of Analytical and Applied Pyrolysis, 2016, 117, 176-181.	2.6	74
46	The tetrahedral finite cell method for fluids: Immersogeometric analysis of turbulent flow around complex geometries. Computers and Fluids, 2016, 141, 135-154.	1.3	91
47	Dynamic and fluid-structure interaction simulations of bioprosthetic heart valves using parametric design with T-splines and Fung-type material models. Computational Mechanics, 2015, 55, 1211-1225.	2.2	207
48	A comprehensive review on the molecular dynamics simulation of the novel thermal properties of graphene. RSC Advances, 2015, 5, 89415-89426.	1.7	69