

Jinhui Yan

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

972
citations

516710

16
h-index

794594

19
g-index

20
all docs

20
docs citations

20
times ranked

1006
citing authors

#	ARTICLE	IF	CITATIONS
1	A thermal multi-phase flow model for directed energy deposition processes via a moving signed distance function. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 373, 113518.	6.6	24
2	Variational multi-scale modeling of interfacial flows with a balanced-force surface tension model. <i>Mechanics Research Communications</i> , 2021, 112, 103608.	1.8	13
3	A moving-domain CFD solver in FEniCS with applications to tidal turbine simulations in turbulent flows. <i>Computers and Mathematics With Applications</i> , 2021, 81, 532-546.	2.7	40
4	Machine learning for metal additive manufacturing: predicting temperature and melt pool fluid dynamics using physics-informed neural networks. <i>Computational Mechanics</i> , 2021, 67, 619-635.	4.0	176
5	Reprint of: Variational multiscale modeling of Langmuir turbulent boundary layers in shallow water using Isogeometric Analysis. <i>Mechanics Research Communications</i> , 2021, 112, 103703.	1.8	0
6	A mixed interface-capturing/interface-tracking formulation for thermal multi-phase flows with emphasis on metal additive manufacturing processes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021, 383, 113910.	6.6	23
7	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.	6.6	49
8	A conservative level set method on unstructured meshes for modeling multiphase thermo-fluid flow in additive manufacturing processes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 372, 113348.	6.6	34
9	Variational multiscale modeling of Langmuir turbulent boundary layers in shallow water using Isogeometric Analysis. <i>Mechanics Research Communications</i> , 2020, 108, 103570.	1.8	24
10	Mixed-flow design for microfluidic printing of two-component polymer semiconductor systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 17551-17557.	7.1	24
11	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, .	2.2	29
12	Modeling and simulation of bridge-section buffeting response in turbulent flow. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019, 29, 939-966.	3.3	21
13	Computer Modeling of Wind Turbines: 2. Free-Surface FSI and Fatigue-Damage. <i>Archives of Computational Methods in Engineering</i> , 2019, 26, 1101-1115.	10.2	17
14	A volume-conserving balanced-force level set method on unstructured meshes using a control volume finite element formulation. <i>Journal of Computational Physics</i> , 2019, 380, 119-142.	3.8	11
15	Data-driven multi-scale multi-physics models to derive processâ€‘structureâ€‘property relationships for additive manufacturing. <i>Computational Mechanics</i> , 2018, 61, 521-541.	4.0	162
16	Ion-Transport Design for High-Performance Na ⁺ -Based Electrochromics. <i>ACS Nano</i> , 2018, 12, 3759-3768.	14.6	136
17	A contact formulation based on a volumetric potential: Application to isogeometric simulations of atrioventricular valves. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2018, 330, 522-546.	6.6	61
18	Lattice-contraction triggered synchronous electrochromic actuator. <i>Nature Communications</i> , 2018, 9, 4798.	12.8	80

#	ARTICLE	IF	CITATIONS
19	Topology Optimization of Total Femur Structure: Application of Parameterized Level Set Method Under Geometric Constraints. <i>Journal of Mechanical Design, Transactions of the ASME</i> , 2016, 138, .	2.9	25
20	Graphics processing unit (GPU) accelerated fast multipole BEM with level-skip M2L for 3D elasticity problems. <i>Advances in Engineering Software</i> , 2015, 82, 105-118.	3.8	23