

# Fande

## List of Publications by Year in descending order

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17  
papers

601  
citations

1040056

9  
h-index

1058476

14  
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18  
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18  
docs citations

18  
times ranked

511  
citing authors

#	ARTICLE	IF	CITATIONS
1	MOOSE: Enabling massively parallel multiphysics simulation. <i>SoftwareX</i> , 2020, 11, 100430.	2.6	366
2	A Highly Scalable Multilevel Schwarz Method with Boundary Geometry Preserving Coarse Spaces for 3D Elasticity Problems on Domains with Complex Geometry. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, C73-C95.	2.8	35
3	Overview of the incompressible Navier–Stokes simulation capabilities in the MOOSE framework. <i>Advances in Engineering Software</i> , 2018, 119, 68-92.	3.8	34
4	Rattlesnake: A MOOSE-Based Multiphysics Multischeme Radiation Transport Application. <i>Nuclear Technology</i> , 2021, 207, 1047-1072.	1.2	30
5	A scalable nonlinear fluid–structure interaction solver based on a Schwarz preconditioner with isogeometric unstructured coarse spaces in 3D. <i>Journal of Computational Physics</i> , 2017, 340, 498-518.	3.8	29
6	Simulation of unsteady blood flows in a patient-specific compliant pulmonary artery with a highly parallel monolithically coupled fluid–structure interaction algorithm. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2019, 35, e3208.	2.1	22
7	Automatic Differentiation in MetaPhysicL and Its Applications in MOOSE. <i>Nuclear Technology</i> , 2021, 207, 905-922.	1.2	22
8	An efficient parallel simulation of unsteady blood flows in patient-specific pulmonary artery. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2018, 34, e2952.	2.1	21
9	Scalability study of an implicit solver for coupled fluid-structure interaction problems on unstructured meshes in 3D. <i>International Journal of High Performance Computing Applications</i> , 2018, 32, 207-219.	3.7	13
10	A fully coupled two-level Schwarz preconditioner based on smoothed aggregation for the transient multigroup neutron diffusion equations. <i>Numerical Linear Algebra With Applications</i> , 2018, 25, e2162.	1.6	9
11	Scalable Feature Tracking for Finite Element Meshes Demonstrated with a Novel Phase-Field Grain Subdivision Model. <i>Nuclear Technology</i> , 2021, 207, 885-904.	1.2	6
12	A General-Purpose Hierarchical Mesh Partitioning Method with Node Balancing Strategies for Large-Scale Numerical Simulations. , 2018, , .		5
13	A Highly Parallel Multilevel Newton–Krylov–Schwarz Method with Subspace-Based Coarsening and Partition-Based Balancing for the Multigroup Neutron Transport Equation on Three-Dimensional Unstructured Meshes. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, C193-C220.	2.8	4
14	An optimization-based domain decomposition method for numerical simulation of the incompressible Navier–Stokes flows. <i>Numerical Methods for Partial Differential Equations</i> , 2011, 27, 255-276.	3.6	3
15	Neutron transport criticality calculations using a parallel monolithic multilevel Schwarz preconditioner together with a nonlinear diffusion acceleration method. <i>Annals of Nuclear Energy</i> , 2020, 141, 107342.	1.8	2
16	A new stabilized finite element method for optimal control for a Ladyzhenskaya model for unsteady flows. <i>Numerical Methods for Partial Differential Equations</i> , 2012, 28, 263-287.	3.6	0
17	Toward a Fully Integrated Multiphysics Simulation Framework for Fusion Blanket Design. <i>IEEE Transactions on Plasma Science</i> , 2022, , 1-7.	1.3	0