Fande

List of Publications by Year
in descending order

17 papers	**601** citations	1040056 **9** h-index	1058476 **14** g-index
18 all docs	**18** docs citations	**18** times ranked	**511** citing authors

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