

# John W Peterson

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3782658/publications.pdf>

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14  
papers

1,354  
citations

933447

10  
h-index

1125743

13  
g-index

14  
all docs

14  
docs citations

14  
times ranked

1368  
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of the Finite Element Computational Fluid Dynamics Capabilities in the Multiphysics Object Oriented Simulation Environment. <i>Journal of Nuclear Engineering and Radiation Science</i> , 2023, 9, .	0.4	2
2	A mortar thermomechanical contact computational framework for nuclear fuel performance simulation. <i>Nuclear Engineering and Design</i> , 2022, 394, 111808.	1.7	4
3	MOOSE: Enabling massively parallel multiphysics simulation. <i>SoftwareX</i> , 2020, 11, 100430.	2.6	366
4	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
5	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
6	A General-Purpose Hierarchical Mesh Partitioning Method with Node Balancing Strategies for Large-Scale Numerical Simulations. , 2018, , .		5
7	Modeling porosity migration in LWR and fast reactor MOX fuel using the finite element method. <i>Journal of Nuclear Materials</i> , 2018, 508, 226-236.	2.7	15
8	Rapid multiphase-field model development using a modular free energy based approach with automatic differentiation in MOOSE/MARMOT. <i>Computational Materials Science</i> , 2017, 132, 36-45.	3.0	71
9	Physics-based multiscale coupling for full core nuclear reactor simulation. <i>Annals of Nuclear Energy</i> , 2015, 84, 45-54.	1.8	184
10	A quantitative comparison between and elements for solving the Cahn–Hilliard equation. <i>Journal of Computational Physics</i> , 2013, 236, 74-80.	3.8	35
11	A high-performance parallel implementation of the certified reduced basis method. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 1455-1466.	6.6	34
12	High-fidelity real-time simulation on deployed platforms. <i>Computers and Fluids</i> , 2011, 43, 74-81.	2.5	23
13	Adaptive finite element methodology for tumour angiogenesis modelling. <i>International Journal for Numerical Methods in Engineering</i> , 2007, 69, 1212-1238.	2.8	17
14	libMesh : a C++ library for parallel adaptive mesh refinement/coarsening simulations. <i>Engineering With Computers</i> , 2006, 22, 237-254.	6.1	555