

Derek Gaston

List of Publications by Year in descending order

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9
papers

1,021
citations

1040056

9
h-index

1474206

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g-index

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all docs

9
docs citations

9
times ranked

1057
citing authors

#	ARTICLE	IF	CITATIONS
1	Cardinal: A Lower-Length-Scale Multiphysics Simulator for Pebble-Bed Reactors. Nuclear Technology, 2021, 207, 1118-1141.	1.2	13
2	Preliminary Coupling of the Monte Carlo Code OpenMC and the Multiphysics Object-Oriented Simulation Environment for Analyzing Doppler Feedback in Monte Carlo Simulations. Nuclear Science and Engineering, 2017, 185, 184-193.	1.1	31
3	A quantitative comparison between and elements for solving the Cahn-Hilliard equation. Journal of Computational Physics, 2013, 236, 74-80.	3.8	35
4	Multiscale development of a fission gas thermal conductivity model: Coupling atomic, meso and continuum level simulations. Journal of Nuclear Materials, 2013, 440, 193-200.	2.7	35
5	Parallel Algorithms and Software for Nuclear, Energy, and Environmental Applications. Part II: Multiphysics Software. Communications in Computational Physics, 2012, 12, 834-865.	1.7	12
6	An object-oriented finite element framework for multiphysics phase field simulations. Computational Materials Science, 2012, 51, 20-29.	3.0	217
7	A coupling methodology for mesoscale-informed nuclear fuel performance codes. Nuclear Engineering and Design, 2010, 240, 2877-2883.	1.7	16
8	MOOSE: A parallel computational framework for coupled systems of nonlinear equations. Nuclear Engineering and Design, 2009, 239, 1768-1778.	1.7	593
9	Three dimensional coupled simulation of thermomechanics, heat, and oxygen diffusion in nuclear fuel rods. Journal of Nuclear Materials, 2009, 392, 6-15.	2.7	69