

Florian Frank

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

24
papers

297
citations

11
h-index

16
g-index

26
ext. papers

362
ext. citations

3.2
avg, IF

3.77
L-index

#	Paper	IF	Citations
24	FESTUNG 1.0: Overview, usage, and example applications of the MATLAB/GNU Octave toolbox for discontinuous Galerkin methods. <i>Computers and Mathematics With Applications</i> , 2021 , 81, 3-41	2.7	3
23	Enriched Galerkin method for the shallow-water equations. <i>GEM - International Journal on Geomathematics</i> , 2020 , 11, 1	2.7	5
22	Numerical benchmark study for flow in highly heterogeneous aquifers. <i>Advances in Water Resources</i> , 2020 , 138, 103558	4.7	5
21	Bound-preserving flux limiting schemes for DG discretizations of conservation laws with applications to the Cahn-Hilliard equation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020 , 359, 112665	5.7	7
20	An efficient numerical algorithm for solving viscosity contrast Cahn-Hilliard-Navier-Stokes system in porous media. <i>Journal of Computational Physics</i> , 2020 , 400, 108948	4.1	9
19	Numerical error analysis for nonsymmetric interior penalty discontinuous Galerkin method of Cahn-Hilliard equation. <i>Numerical Methods for Partial Differential Equations</i> , 2019 , 35, 1509-1537	2.5	7
18	An interior penalty discontinuous Galerkin approach for 3D incompressible Navier-Stokes equation for permeability estimation of porous media. <i>Journal of Computational Physics</i> , 2019 , 396, 669-686	4.1	2
17	A finite volume / discontinuous Galerkin method for the advective Cahn-Hilliard equation with degenerate mobility on porous domains stemming from micro-CT imaging. <i>Computational Geosciences</i> , 2018 , 22, 543-563	2.7	21
16	A distributed parallel direct simulator for pore-scale two-phase flow on digital rock images using a finite difference implementation of the phase-field method. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 166, 806-824	4.4	17
15	An energy-based equilibrium contact angle boundary condition on jagged surfaces for phase-field methods. <i>Journal of Colloid and Interface Science</i> , 2018 , 523, 282-291	9.3	14
14	Direct Numerical Simulation of Flow on Pore-Scale Images Using the Phase-Field Method. <i>SPE Journal</i> , 2018 , 23, 1833-1850	3.1	21
13	Mass-Conserved Density Gradient Theory Model for Nucleation Process. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16476-16485	3.9	5
12	Strong solvability up to clogging of an effective diffusion-precipitation model in an evolving porous medium. <i>European Journal of Applied Mathematics</i> , 2017 , 28, 179-207	1	16
11	A Discontinuous Galerkin Finite Element Framework for the Direct Numerical Simulation of Flow on High-Resolution Pore-Scale Images 2017 ,		3
10	Stabilized density gradient theory algorithm for modeling interfacial properties of pure and mixed systems. <i>Fluid Phase Equilibria</i> , 2017 , 435, 118-130	2.5	23
9	Inexact hierarchical scale separation: A two-scale approach for linear systems from discontinuous Galerkin discretizations. <i>Computers and Mathematics With Applications</i> , 2017 , 74, 1769-1778	2.7	8
8	Convergence analysis of a BDF2 / mixed finite element discretization of a Darcy-Ornstein-Blanc-Boussinesq system. <i>ESAIM: Mathematical Modelling and Numerical Analysis</i> , 2017 , 51, 1883-1902	1.8	3

7	FESTUNG: A MATLAB/GNU Octave toolbox for the discontinuous Galerkin method, Part II: Advection operator and slope limiting. <i>Computers and Mathematics With Applications</i> , 2016 , 72, 1896-1925	2.7	15
6	A phase-field method for the direct simulation of two-phase flows in pore-scale media using a non-equilibrium wetting boundary condition. <i>Computational Geosciences</i> , 2016 , 20, 881-908	2.7	42
5	Asynchronous Hybrid Parallel SpMV in an Industrial Application 2016 ,		1
4	FESTUNG: A MATLAB/GNU Octave toolbox for the discontinuous Galerkin method, Part I: Diffusion operator. <i>Computers and Mathematics With Applications</i> , 2015 , 70, 11-46	2.7	23
3	FV Upwind Stabilization of FE Discretizations for Advection-Diffusion Problems. <i>Springer Proceedings in Mathematics and Statistics</i> , 2014 , 177-185	0.2	2
2	Multiscale Modeling of Colloid and Fluid Dynamics in Porous Media Including an Evolving Microstructure. <i>Transport in Porous Media</i> , 2012 , 95, 669-696	3.1	32
1	Numerical investigation of homogenized Stokes-Nernst-Planck-Poisson systems. <i>Computing and Visualization in Science</i> , 2011 , 14, 385-400	1	13