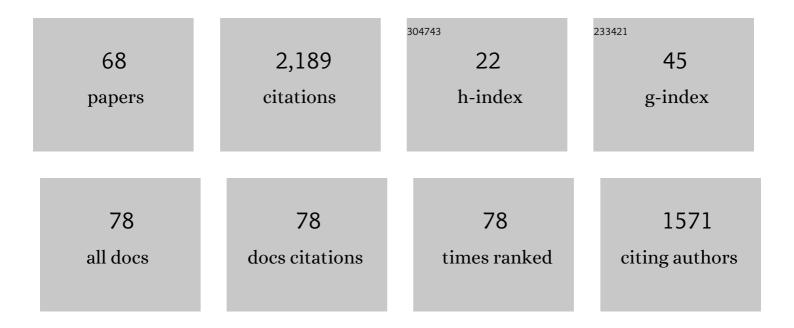
List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Convergence of nonlinear finite volume schemes for two-phase porous media flow on general meshes. IMA Journal of Numerical Analysis, 2022, 42, 515-568.	2.9	1
2	Comparison of cell- and vertex-centered finite-volume schemes for flow in fractured porous media. Journal of Computational Physics, 2022, 448, 110715.	3.8	2
3	An Adaptive Hybrid Vertical Equilibrium/Fullâ€Ðimensional Model for Compositional Multiphase Flow. Water Resources Research, 2022, 58, .	4.2	4
4	A Study on Darcy versus Forchheimer Models for Flow through Heterogeneous Landfills including Macropores. Water (Switzerland), 2022, 14, 546.	2.7	4
5	Comparison study of phase-field and level-set method for three-phase systems including two minerals. Computational Geosciences, 2022, 26, 545-570.	2.4	5
6	DuMux 3 – an open-source simulator for solving flow and transport problems in porous media with a focus on model coupling. Computers and Mathematics With Applications, 2021, 81, 423-443.	2.7	81
7	Verification benchmarks for single-phase flow in three-dimensional fractured porous media. Advances in Water Resources, 2021, 147, 103759.	3.8	59
8	Subsurface Environmental Modelling Between Science and Policy. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , .	0.2	5
9	Explicit continuum scale modeling of low-salinity mechanisms. Journal of Petroleum Science and Engineering, 2021, 199, 108336.	4.2	2
10	Surrogate-based Bayesian comparison of computationally expensive models: application to microbially induced calcite precipitation. Computational Geosciences, 2021, 25, 1899-1917.	2.4	7
11	Geologic Carbon Sequestration. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 109-152.	0.2	1
12	Hydraulic Fracturing. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 153-178.	0.2	1
13	Conceptual Models for Environmental Engineering Related to Subsurface Flow and Transport. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 15-33.	0.2	0
14	Overview of Mathematical and Numerical Solution Methods. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 35-56.	0.2	0
15	Software Concepts and Implementation. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 57-81.	0.2	0
16	The Science-Policy Interface of Subsurface Environmental Modelling. Advances in Geophysical and Environmental Mechanics and Mathematics, 2021, , 83-106.	0.2	0
17	A multiscale subvoxel perfusion model to estimate diffusive capillary wall conductivity in multiple sclerosis lesions from perfusion MRI data. International Journal for Numerical Methods in Biomedical Engineering, 2020, 36, e3298.	2.1	7
18	Accuracy of fully coupled and sequential approaches for modeling hydro- and geomechanical processes. Computational Geosciences, 2020, 24, 1707-1723.	2.4	12

#	Article	IF	CITATIONS
19	A Hybrid-Dimensional Coupled Pore-Network/Free-Flow Model Including Pore-Scale Slip and Its Application to a Micromodel Experiment. Transport in Porous Media, 2020, 135, 243-270.	2.6	8
20	Frackit: a framework for stochastic fracture network generation and analysis. Journal of Open Source Software, 2020, 5, 2291.	4.6	2
21	A hybrid-dimensional discrete fracture model for non-isothermal two-phase flow in fractured porous media. GEM - International Journal on Geomathematics, 2019, 10, 1.	1.6	18
22	Development of Open-Source Porous Media Simulators: Principles and Experiences. Transport in Porous Media, 2019, 130, 337-361.	2.6	53
23	Monotone nonlinear finite-volume method for challenging grids. Computational Geosciences, 2018, 22, 565-586.	2.4	27
24	Benchmarks for single-phase flow in fractured porous media. Advances in Water Resources, 2018, 111, 239-258.	3.8	178
25	Comparison of finite-volume schemes for diffusion problems. Oil and Gas Science and Technology, 2018, 73, 82.	1.4	23
26	An Adaptive Multiphysics Model Coupling Vertical Equilibrium and Full Multidimensions for Multiphase Flow in Porous Media. Water Resources Research, 2018, 54, 4347-4360.	4.2	9
27	Convergence of nonlinear finite volume schemes for heterogeneous anisotropic diffusion on general meshes. Journal of Computational Physics, 2017, 351, 80-107.	3.8	33
28	A Pseudoâ€Vertical Equilibrium Model for Slow Gravity Drainage Dynamics. Water Resources Research, 2017, 53, 10491-10507.	4.2	8
29	A discrete fracture model for two-phase flow in fractured porous media. Advances in Water Resources, 2017, 110, 335-348.	3.8	74
30	Monotone nonlinear finiteâ€volume method for nonisothermal twoâ€phase twoâ€component flow in porous media. International Journal for Numerical Methods in Fluids, 2017, 84, 352-381.	1.6	45
31	A Review of the XFEM-Based Approximation of Flow in Fractured Porous Media. SEMA SIMAI Springer Series, 2016, , 47-76.	0.7	28
32	Modeling drop dynamics at the interface between free and porous-medium flow using the mortar method. International Journal of Heat and Mass Transfer, 2016, 99, 660-671.	4.8	18
33	Dimensionally reduced flow models in fractured porous media: crossings and boundaries. Computational Geosciences, 2015, 19, 1219-1230.	2.4	82
34	The localized reduced basis multiscale method for twoâ€phase flows in porous media. International Journal for Numerical Methods in Engineering, 2015, 102, 1018-1040.	2.8	12
35	Multi-physics modeling of non-isothermal compositional flow on adaptive grids. Computer Methods in Applied Mechanics and Engineering, 2015, 292, 16-34.	6.6	11
36	Efficient Modeling of Flow and Transport in Porous Media Using Multi-physics and Multi-scale		4

Approaches. , 2015, , 703-749.

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37	Efficient multiphysics modelling with adaptive grid refinement using a MPFA method. Computational Geosciences, 2014, 18, 625-636.	2.4	22
38	Model coupling for multiphase flow in porous media. Advances in Water Resources, 2013, 51, 52-66.	3.8	49
39	An adaptive multiscale approach for modeling two-phase flow in porous media including capillary pressure. Water Resources Research, 2013, 49, 8139-8159.	4.2	13
40	Efficient Modeling of Flow and Transport in Porous Media Using Multi-physics and Multi-scale Approaches. , 2013, , 1-43.		0
41	Multipoint flux approximation L-method in 3D: numerical convergence and application to two-phase flow through porous media. , 2013, , 39-80.		5
42	Uncertainties in practical simulation of CO2 storage. International Journal of Greenhouse Gas Control, 2012, 9, 234-242.	4.6	84
43	Brine migration resulting from CO2 injection into saline aquifers – An approach to risk estimation including various levels of uncertainty. International Journal of Greenhouse Gas Control, 2012, 9, 495-506.	4.6	35
44	Numerical scheme for coupling two-phase compositional porous-media flow and one-phase compositional free flow. IMA Journal of Applied Mathematics, 2012, 77, 887-909.	1.6	42
45	A Coupled Discrete/Continuum Model for Describing Cancer-Therapeutic Transport in the Lung. PLoS ONE, 2012, 7, e31966.	2.5	43
46	Non-Matching Grids for a Flexible Discretization in Computational Acoustics. Communications in Computational Physics, 2012, 11, 472-488.	1.7	13
47	An Open Source Numerical CO2 Laboratory. , 2012, , .		0
48	A coupling concept for twoâ€phase compositional porousâ€medium and singleâ€phase compositional free flow. Water Resources Research, 2011, 47, .	4.2	108
49	DuMux: DUNE for multi-{phase,component,scale,physics,…} flow and transport in porous media. Advances in Water Resources, 2011, 34, 1102-1112.	3.8	258
50	Sequential Model Coupling for Feasibility Studies of CO2Storage in Deep Saline Aquifers. Oil and Gas Science and Technology, 2011, 66, 93-103.	1.4	9
51	A Discrete 2-D Formulation for 3-D Field Problems With Continuous Symmetry. IEEE Transactions on Magnetics, 2010, 46, 3508-3511.	2.1	12
52	Applications of the Mortar Finite Element Method in Vibroacoustics and Flow Induced Noise Computations. Acta Acustica United With Acustica, 2010, 96, 536-553.	0.8	19
53	The Equivalence of Standard and Mixed Finite Element Methods in Applications to Elasto-Acoustic Interaction. SIAM Journal of Scientific Computing, 2010, 32, 1980-2006.	2.8	4
54	EfficientModeling of Flow and Transport in Porous Media Using Multiphysics andMultiscale		9

Approaches. , 2010, , 417-457.

#	Article	IF	CITATIONS
55	A multiplicative Schwarz method and its application to nonlinear acoustic-structure interaction. ESAIM: Mathematical Modelling and Numerical Analysis, 2009, 43, 487-506.	1.9	6
56	A benchmark study on problems related to CO2 storage in geologic formations. Computational Geosciences, 2009, 13, 409-434.	2.4	348
57	Coupling Models of Different Complexity for the Simulation of CO2 Storage in Saline Aquifers. Energy Procedia, 2009, 1, 1767-1774.	1.8	7
58	Dimensional reduction of field problems in a differentialâ€forms framework. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2009, 28, 907-921.	0.9	8
59	Nonmatching Grids for the Coupled Computation of Flow Induced Noise. , 2007, , .		1
60	Stable Lagrange multipliers for quadrilateral meshes of curved interfaces in 3D. Computer Methods in Applied Mechanics and Engineering, 2007, 196, 1589-1602.	6.6	66
61	Nonconforming Methods for Nonlinear Elasticity Problems. , 2007, , 65-76.		1
62	Elasto–acoustic and acoustic–acoustic coupling on non-matching grids. International Journal for Numerical Methods in Engineering, 2006, 67, 1791-1810.	2.8	59
63	Scalar and vector potentials' coupling on nonmatching grids for the simulation of an electromagnetic brake. COMPEL - the International Journal for Computation and Mathematics in Electrical and Electronic Engineering, 2005, 24, 1061-1070.	0.9	3
64	Mortar methods with curved interfaces. Applied Numerical Mathematics, 2005, 54, 339-361.	2.1	34
65	A new dual mortar method for curved interfaces: 2D elasticity. International Journal for Numerical Methods in Engineering, 2005, 63, 813-832.	2.8	70
66	A domain decomposition method on nested domains and nonmatching grids. Numerical Methods for Partial Differential Equations, 2004, 20, 374-387.	3.6	9
67	Coupling scalar and vector potentials on nonmatching grids for eddy currents in a moving conductor. Journal of Computational and Applied Mathematics, 2004, 168, 191-205.	2.0	10
68	Nonconforming Discretization Techniques for Overlapping Domain Decompositions. , 2004, , 316-325.		1