

Hai Huang

List of Publications by Year in descending order

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32
papers

783
citations

471509

17
h-index

501196

28
g-index

32
all docs

32
docs citations

32
times ranked

867
citing authors

#	ARTICLE	IF	CITATIONS
1	Dissipative particle dynamics with attractive and repulsive particle-particle interactions. <i>Physics of Fluids</i> , 2006, 18, 017101.	4.0	74
2	Kerogen Swelling and Confinement: Its implication on Fluid Thermodynamic Properties in Shales. <i>Scientific Reports</i> , 2017, 7, 12530.	3.3	69
3	Level set simulation of coupled advection&diffusion and pore structure evolution due to mineral precipitation in porous media. <i>Water Resources Research</i> , 2008, 44, .	4.2	55
4	Dissipative particle dynamics simulation of fluid motion through an unsaturated fracture and fracture junction. <i>Journal of Computational Physics</i> , 2007, 222, 110-130.	3.8	53
5	Molecular investigation of the interactions of carbon dioxide and methane with kerogen: Application in enhanced shale gas recovery. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 51, 1-8.	4.4	49
6	A three-dimensional level set simulation of coupled reactive transport and precipitation/dissolution. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 2908-2923.	4.8	43
7	Discrete element method for simulation of early-life thermal fracturing behavior in ceramic nuclear fuel pellets. <i>Nuclear Engineering and Design</i> , 2014, 278, 515-528.	1.7	41
8	Phase field and level set methods for modeling solute precipitation and/or dissolution. <i>Computer Physics Communications</i> , 2012, 183, 15-19.	7.5	40
9	Discrete element modeling of deformable pinewood chips in cyclic loading test. <i>Powder Technology</i> , 2019, 345, 1-14.	4.2	39
10	Many-body dissipative particle dynamics modeling of fluid flow in fine-grained nanoporous shales. <i>Physics of Fluids</i> , 2017, 29, .	4.0	32
11	Reactive Molecular Dynamics Simulation of Kerogen Thermal Maturation and Cross-Linking Pathways. <i>Energy & Fuels</i> , 2017, 31, 11601-11614.	5.1	28
12	Nonlocal nonreactive transport in heterogeneous porous media with interregional mass diffusion. <i>Water Resources Research</i> , 2000, 36, 1665-1675.	4.2	27
13	Stochastic analysis of solute transport in heterogeneous, dual-permeability media. <i>Water Resources Research</i> , 2002, 38, 14-1-14-16.	4.2	22
14	Nonlocal reactive transport in heterogeneous dual-porosity media with rate-limited sorption and interregional mass diffusion. <i>Water Resources Research</i> , 2001, 37, 639-647.	4.2	20
15	A GPU-accelerated package for simulation of flow in nanoporous source rocks with many-body dissipative particle dynamics. <i>Computer Physics Communications</i> , 2020, 247, 106874.	7.5	20
16	Monte Carlo study of conservative transport in heterogeneous dual-porosity media. <i>Journal of Hydrology</i> , 2003, 275, 229-241.	5.4	19
17	Modeling of multiphase fluid motion in fracture intersections and fracture networks. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	19
18	A density dependent Drucker-Prager/Cap model for ring shear simulation of ground loblolly pine. <i>Powder Technology</i> , 2020, 368, 45-58.	4.2	19

#	ARTICLE	IF	CITATIONS
19	Precipitation of calcium carbonate and calcium phosphate under diffusion controlled mixing. Applied Geochemistry, 2014, 46, 43-56.	3.0	18
20	Stochastic inverse mapping of hydraulic conductivity and sorption partitioning coefficient fields conditioning on nonreactive and reactive tracer test data. Water Resources Research, 2004, 40, .	4.2	16
21	A parallel, fully coupled, fully implicit solution to reactive transport in porous media using the preconditioned Jacobian-Free Newton-Krylov Method. Advances in Water Resources, 2013, 53, 101-108.	3.8	15
22	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
23	CaCO ₃ Precipitation, Transport and Sensing in Porous Media with In Situ Generation of Reactants. Environmental Science & Technology, 2014, 48, 542-549.	10.0	12
24	Stochastic reactive transport in porous media: higher-order closures. Advances in Water Resources, 2002, 25, 513-531.	3.8	11
25	Physics-based simulation of multiple interacting crack growth in brittle rocks driven by thermal cooling. International Journal for Numerical and Analytical Methods in Geomechanics, 2016, 40, 2163-2177.	3.3	7
26	Experimental and Numerical Analysis of Parallel Reactant Flow and Transverse Mixing with Mineral Precipitation in Homogeneous and Heterogeneous Porous Media. Transport in Porous Media, 2016, 111, 605-626.	2.6	7
27	Assessment of a Hybrid Continuous/Discontinuous Galerkin Finite Element Code for Geothermal Reservoir Simulations. Rock Mechanics and Rock Engineering, 2017, 50, 719-732.	5.4	7
28	Macro- and micro-compression testing of shales. Journal of Petroleum Science and Engineering, 2020, 191, 107034.	4.2	5
29	Application of a data assimilation method via an ensemble Kalman filter to reactive urea hydrolysis transport modeling. Stochastic Environmental Research and Risk Assessment, 2014, 28, 729-741.	4.0	3
30	Elucidation of the Carbon-Dominated, Chemically and Structurally Heterogeneous, Geopolymeric Material Nanostructure. Jom, 2019, 71, 1673-1680.	1.9	1
31	Introduction to Selected Contributions from GeoProc, The 5th International Conference on Coupled Thermo-Hydro-Mechanical-Chemical Process in Geosystems Held in Salt Lake City, Utah, from February 25-27, 2015. Rock Mechanics and Rock Engineering, 2017, 50, 675-675.	5.4	0
32	A data-domain correlation approach for joint inversion of time-lapse hydraulic head, fluid conductivity, and electrical resistivity data. , 2008, , .		0