Dongxiao Zhang

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.

8,856 82 270 49 h-index g-index citations papers 6.84 10,221 300 4.7 avg, IF L-index ext. papers ext. citations

| # | Paper | IF | Citations |
|-----|---|------------------|-----------|
| 270 | Predicting permeability from 3D rock images based on CNN with physical information. <i>Journal of Hydrology</i> , 2022 , 606, 127473 | 6 | 1 |
| 269 | Combining transfer learning and constrained long short-term memory for power generation forecasting of newly-constructed photovoltaic plants. <i>Renewable Energy</i> , 2022 , 185, 1062-1077 | 8.1 | 2 |
| 268 | Constructing sub-scale surrogate model for proppant settling in inclined fractures from simulation data with multi-fidelity neural network. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 210, 110051 | 1 ^{4·4} | |
| 267 | Carbon Capture, Utilization & Storage: A General Overview 2022 , 61-107 | | Ο |
| 266 | Experimental study on multiphase flow in 3D-printed heterogeneous, filled vugs. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109497 | 4.4 | |
| 265 | Efficient well placement optimization based on theory-guided convolutional neural network. <i>Journal of Petroleum Science and Engineering</i> , 2022 , 208, 109545 | 4.4 | 2 |
| 264 | Elastic Characterization of Shale at Microscale: A Comparison between Modulus Mapping, PeakForce Quantitative Nanomechanical Mapping, and Contact Resonance Method. <i>SPE Journal</i> , 2022 , 1-22 | 3.1 | |
| 263 | A statistical thermodynamics-based equation of state and phase equilibrium calculation for confined hydrocarbons in shale reservoirs. <i>Journal of Natural Gas Science and Engineering</i> , 2022 , 102, 104579 | 4.6 | 0 |
| 262 | An adaptive deep learning framework for day-ahead forecasting of photovoltaic power generation. <i>Sustainable Energy Technologies and Assessments</i> , 2022 , 52, 102326 | 4.7 | 1 |
| 261 | Deep-learning of parametric partial differential equations from sparse and noisy data. <i>Physics of Fluids</i> , 2021 , 33, 037132 | 4.4 | 7 |
| 260 | Development of 3-D Curved Fracture Swarms in Shale Rock Driven by Rapid Fluid Pressure Buildup: Insights From Numerical Modeling. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092638 | 4.9 | 2 |
| 259 | Deep learning based forecasting of photovoltaic power generation by incorporating domain knowledge. <i>Energy</i> , 2021 , 225, 120240 | 7.9 | 25 |
| 258 | DL-PDE: Deep-Learning Based Data-Driven Discovery of Partial Differential Equations from Discrete and Noisy Data. <i>Communications in Computational Physics</i> , 2021 , 29, 698-728 | 2.4 | 3 |
| 257 | Weak form theory-guided neural network (TgNN-wf) for deep learning of subsurface single- and two-phase flow. <i>Journal of Computational Physics</i> , 2021 , 436, 110318 | 4.1 | 7 |
| 256 | Direct numerical simulation of proppant transport in hydraulic fractures with the immersed boundary method and multi-sphere modeling. <i>Applied Mathematical Modelling</i> , 2021 , 91, 590-613 | 4.5 | 5 |
| 255 | Theory-guided deep-learning for electrical load forecasting (TgDLF) via ensemble long short-term memory. <i>Advances in Applied Energy</i> , 2021 , 1, 100004 | | 15 |
| 254 | Efficient uncertainty quantification for dynamic subsurface flow with surrogate by Theory-guided Neural Network. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 373, 113492 | 5.7 | 17 |

(2020-2021)

| 253 | Deep-Learning-Based Inverse Modeling Approaches: A Subsurface Flow Example. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB020549 | 3.6 | 11 | |
|-----|--|-----|----|--|
| 252 | Simulating particle settling in inclined narrow channels with the unresolved CFD-DEM method. <i>Physical Review Fluids</i> , 2021 , 6, | 2.8 | 5 | |
| 251 | Estimation of Macrodispersivity in Bounded Formations by Circulant Embedding and Analysis of Variance. <i>Water Resources Research</i> , 2021 , 57, e2020WR029385 | 5.4 | 1 | |
| 250 | Solution of diffusivity equations with local sources/sinks and surrogate modeling using weak form Theory-guided Neural Network. <i>Advances in Water Resources</i> , 2021 , 153, 103941 | 4.7 | 3 | |
| 249 | Theory-guided full convolutional neural network: An efficient surrogate model for inverse problems in subsurface contaminant transport. <i>Advances in Water Resources</i> , 2021 , 157, 104051 | 4.7 | 2 | |
| 248 | Development and evaluation of a novel fracture diverting agent for high temperature reservoirs. Journal of Natural Gas Science and Engineering, 2021, 93, 104074 | 4.6 | 3 | |
| 247 | Experimental investigation of water sensitivity effects on microscale mechanical behavior of shale. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021 , 145, 104837 | 6 | 3 | |
| 246 | Lithology identification from well-log curves via neural networks with additional geologic constraint. <i>Geophysics</i> , 2021 , 86, IM85-IM100 | 3.1 | 7 | |
| 245 | Deep learning of dynamic subsurface flow via theory-guided generative adversarial network. <i>Journal of Hydrology</i> , 2021 , 601, 126626 | 6 | 3 | |
| 244 | Deep-learning based discovery of partial differential equations in integral form from sparse and noisy data. <i>Journal of Computational Physics</i> , 2021 , 445, 110592 | 4.1 | 1 | |
| 243 | Theory-guided hard constraint projection (HCP): A knowledge-based data-driven scientific machine learning method. <i>Journal of Computational Physics</i> , 2021 , 445, 110624 | 4.1 | 5 | |
| 242 | Theory-guided Auto-Encoder for surrogate construction and inverse modeling. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2021 , 385, 114037 | 5.7 | 3 | |
| 241 | Fluid and heat flow in enhanced geothermal systems considering fracture geometrical and topological complexities: An extended embedded discrete fracture model. <i>Renewable Energy</i> , 2021 , 179, 163-178 | 8.1 | 4 | |
| 240 | Deep Learning of Two-Phase Flow in Porous Media via Theory-Guided Neural Networks. <i>SPE Journal</i> , 2021 , 1-19 | 3.1 | O | |
| 239 | Physics-constrained indirect supervised learning. <i>Theoretical and Applied Mechanics Letters</i> , 2020 , 10, 155-160 | 1.8 | 2 | |
| 238 | Experimental study on multiphase flow in fracture-vug medium using 3D printing technology and visualization techniques. <i>Journal of Petroleum Science and Engineering</i> , 2020 , 193, 107394 | 4.4 | 11 | |
| 237 | Contrasting phase field method and pairwise force smoothed particle hydrodynamics method in simulating multiphase flow through fracture-vug medium. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 81, 103424 | 4.6 | 2 | |
| 236 | Dynamic microscale crack propagation in shale. <i>Engineering Fracture Mechanics</i> , 2020 , 228, 106906 | 4.2 | 10 | |

| 235 | A novel targeted plugging and fracture-adaptable gel used as a diverting agent in fracturing. <i>Energy Science and Engineering</i> , 2020 , 8, 116-133 | 3.4 | 5 |
|-----|---|------|----|
| 234 | Three-Dimensional Hydrochemical Model for Dissolutional Growth of Fractures in Karst Aquifers. <i>Water Resources Research</i> , 2020 , 56, e2019WR025631 | 5.4 | 10 |
| 233 | Physics-Constrained Deep Learning of Geomechanical Logs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 5932-5943 | 8.1 | 17 |
| 232 | Deep learning of subsurface flow via theory-guided neural network. <i>Journal of Hydrology</i> , 2020 , 584, 124700 | 6 | 62 |
| 231 | Efficient analytical upscaling method for elliptic equations in three-dimensional heterogeneous anisotropic media. <i>Journal of Hydrology</i> , 2020 , 583, 124560 | 6 | 3 |
| 230 | DLGA-PDE: Discovery of PDEs with incomplete candidate library via combination of deep learning and genetic algorithm. <i>Journal of Computational Physics</i> , 2020 , 418, 109584 | 4.1 | 15 |
| 229 | Nanopore structure and nanomechanical properties of organic-rich terrestrial shale: An insight into technical issues for hydrocarbon production. <i>Nano Energy</i> , 2020 , 69, 104426 | 17.1 | 12 |
| 228 | A radial differential pressure decay method with micro-plug samples for determining the apparent permeability of shale matrix. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 74, 103126 | 4.6 | 3 |
| 227 | Comprehensive study and comparison of equilibrium and kinetic models in simulation of hydrate reaction in porous media. <i>Journal of Computational Physics</i> , 2020 , 404, 109094 | 4.1 | 6 |
| 226 | A mechanistic model for permeability in deformable gas hydrate-bearing sediments. <i>Journal of Natural Gas Science and Engineering</i> , 2020 , 83, 103554 | 4.6 | 3 |
| 225 | Well Log Generation via Ensemble Long Short-Term Memory (EnLSTM) Network. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087685 | 4.9 | 10 |
| 224 | Hydromechanical Modeling of Nonplanar Three-Dimensional Fracture Propagation Using an Iteratively Coupled Approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB020115 | 3.6 | 6 |
| 223 | Influence of Geochemical Features on the Mechanical Properties of Organic Matter in Shale. Journal of Geophysical Research: Solid Earth, 2020 , 125, e2020JB019809 | 3.6 | 4 |
| 222 | Efficient uncertainty quantification for permeability of three-dimensional porous media through image analysis and pore-scale simulations. <i>Physical Review E</i> , 2020 , 102, 023308 | 2.4 | 3 |
| 221 | Laboratory characterisation of fracture compressibility for coal and shale gas reservoir rocks: A review. <i>International Journal of Coal Geology</i> , 2019 , 204, 1-17 | 5.5 | 64 |
| 220 | A new analytical model for flow in acidized fractured-vuggy porous media. <i>Scientific Reports</i> , 2019 , 9, 8293 | 4.9 | 5 |
| 219 | A review of phase behavior simulation of hydrocarbons in confined space: Implications for shale oil and shale gas. <i>Journal of Natural Gas Science and Engineering</i> , 2019 , 68, 102901 | 4.6 | 49 |
| 218 | Identification of physical processes via combined data-driven and data-assimilation methods. <i>Journal of Computational Physics</i> , 2019 , 393, 337-350 | 4.1 | 16 |

(2018-2019)

| 217 | An Integrated Approach for History Matching of Multiscale-Fracture Reservoirs. <i>SPE Journal</i> , 2019 , 24, 1508-1525 | 3.1 | 11 | |
|-----|--|-------|----|--|
| 216 | A modified BET equation to investigate supercritical methane adsorption mechanisms in shale. Marine and Petroleum Geology, 2019 , 105, 284-292 | 4.7 | 27 | |
| 215 | Analytical solution for upscaling hydraulic conductivity in anisotropic heterogeneous formations. <i>Advances in Water Resources</i> , 2019 , 128, 97-116 | 4.7 | 9 | |
| 214 | Coupled thermo-hydro-mechanical analysis of stimulation and production for fractured geothermal reservoirs. <i>Applied Energy</i> , 2019 , 247, 40-59 | 10.7 | 47 | |
| 213 | Efficient History Matching Using the Markov-Chain Monte Carlo Method by Means of the Transformed Adaptive Stochastic Collocation Method. <i>SPE Journal</i> , 2019 , 24, 1468-1489 | 3.1 | 10 | |
| 212 | Numerical simulation of proppant transport in propagating fractures with the multi-phase particle-in-cell method. <i>Fuel</i> , 2019 , 245, 316-335 | 7.1 | 22 | |
| 211 | Machine learning subsurface flow equations from data. <i>Computational Geosciences</i> , 2019 , 23, 895-910 | 2.7 | 15 | |
| 210 | How Effective Is Carbon Dioxide as an Alternative Fracturing Fluid?. SPE Journal, 2019, 24, 857-876 | 3.1 | 26 | |
| 209 | Multiscale Approach for Mechanical Characterization of Organic-Rich Shale and Its Application. <i>International Journal of Geomechanics</i> , 2019 , 19, 04018180 | 3.1 | 24 | |
| 208 | Ensemble Neural Networks (ENN): A gradient-free stochastic method. <i>Neural Networks</i> , 2019 , 110, 170 | -1,85 | 20 | |
| 207 | Tuning Fractures With Dynamic Data. Water Resources Research, 2018, 54, 680-707 | 5.4 | 11 | |
| 206 | A Fully Coupled Model for Hydraulic-Fracture Growth During Multiwell-Fracturing Treatments: Enhancing Fracture Complexity. <i>SPE Production and Operations</i> , 2018 , 33, 235-250 | 0.6 | 9 | |
| 205 | Long-term viability of carbon sequestration in deep-sea sediments. Science Advances, 2018, 4, eaao658 | 814.3 | 31 | |
| 204 | The effect of heterogeneity on hydraulic fracturing in shale. <i>Journal of Petroleum Science and Engineering</i> , 2018 , 162, 292-308 | 4.4 | 19 | |
| 203 | History Matching of Stimulated Reservoir Volume of Shale-Gas Reservoirs Using an Iterative Ensemble Smoother. <i>SPE Journal</i> , 2018 , 23, 346-366 | 3.1 | 10 | |
| 202 | Study of adsorption behavior in shale reservoirs under high pressure. <i>Journal of Natural Gas Science and Engineering</i> , 2018 , 49, 275-285 | 4.6 | 22 | |
| 201 | Synthetic well logs generation via Recurrent Neural Networks. <i>Petroleum Exploration and Development</i> , 2018 , 45, 629-639 | 4.5 | 71 | |
| 200 | Generalized prism grid: a pillar-based unstructured grid for simulation of reservoirs with complicated geological geometries. <i>Computational Geosciences</i> , 2018 , 22, 1561-1581 | 2.7 | 3 | |

| 199 | A Fully Coupled Model for Hydraulic Fracture Growth During Multi-Well Fracturing Treatments: Enhancing Fracture Complexity 2017 , | | 3 |
|-----|--|-------|----|
| 198 | An adsorbed gas estimation model for shale gas reservoirs via statistical learning. <i>Applied Energy</i> , 2017 , 197, 327-341 | 10.7 | 40 |
| 197 | Reservoir characterization and production optimization using the ensemble-based optimization method and multi-layer capacitance-resistive models. <i>Journal of Petroleum Science and Engineering</i> , 2017 , 156, 633-653 | 4.4 | 10 |
| 196 | Nested sparse grid collocation method with delay and transformation for subsurface flow and transport problems. <i>Advances in Water Resources</i> , 2017 , 104, 158-173 | 4.7 | 6 |
| 195 | A New Approach to the Modeling of Hydraulic-Fracturing Treatments in Naturally Fractured Reservoirs. <i>SPE Journal</i> , 2017 , 22, 1064-1081 | 3.1 | 32 |
| 194 | Surrogate model based iterative ensemble smoother for subsurface flow data assimilation. <i>Advances in Water Resources</i> , 2017 , 100, 96-108 | 4.7 | 26 |
| 193 | A two-stage adaptive stochastic collocation method on nested sparse grids for multiphase flow in randomly heterogeneous porous media. <i>Journal of Computational Physics</i> , 2017 , 330, 828-845 | 4.1 | 16 |
| 192 | Where gas is produced from a shale formation: A simulation study. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 45, 860-870 | 4.6 | 3 |
| 191 | Experimental investigation of the pore structure of triassic terrestrial shale in the Yanchang Formation, Ordos Basin, China. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 46, 436-450 | 4.6 | 13 |
| 190 | Multiscale pore structure and its effect on gas transport in organic-rich shale. <i>Water Resources Research</i> , 2017 , 53, 5438-5450 | 5.4 | 58 |
| 189 | Multiscale Approach to Mechanical Characterization of Shale 2017, | | 1 |
| 188 | A New Approach to the Modeling of Hydraulic Fracturing Treatments in Naturally Fractured Reservoirs 2016 , | | 3 |
| 187 | A fully coupled thermo-hydro-mechanical, three-dimensional model for hydraulic stimulation treatments. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 34, 64-84 | 4.6 | 45 |
| 186 | Assessing surface heat fluxes in atmospheric reanalyses with a decade of data from the NOAA Kuroshio Extension Observatory. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 6874-6890 | 3.3 | 8 |
| 185 | Probabilistic collocation method for strongly nonlinear problems: 3. Transform by time. <i>Water Resources Research</i> , 2016 , 52, 2366-2375 | 5.4 | 15 |
| 184 | Mooring observations of equatorial currents in the upper 1000 m of the western Pacific Ocean during 2014. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 3730-3740 | 3.3 | 21 |
| 183 | Recovery mechanisms and key issues in shale gas development. <i>Chinese Science Bulletin</i> , 2016 , 61, 62-7 | 1 2.9 | 3 |
| 182 | Impact of Adsorption on Gas Transport in Nanopores. <i>Scientific Reports</i> , 2016 , 6, 23629 | 4.9 | 43 |

(2014-2016)

| 181 | Direct Oil Recovery from Saturated Carbon Nanotube Sponges. <i>ACS Applied Materials & Amp; Interfaces</i> , 2016 , 8, 12337-43 | 9.5 | 27 | |
|-----|---|-----|----|--|
| 180 | Numerical simulation of proppant transport in hydraulic fracture with the upscaling CFD-DEM method. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 33, 264-277 | 4.6 | 76 | |
| 179 | Semiannually alternating exchange of intermediate waters east of the Philippines. <i>Geophysical Research Letters</i> , 2016 , 43, 7059-7065 | 4.9 | 11 | |
| 178 | Data-worth analysis through probabilistic collocation-based Ensemble Kalman Filter. <i>Journal of Hydrology</i> , 2016 , 540, 488-503 | 6 | 26 | |
| 177 | Constrained probabilistic collocation method for uncertainty quantification of geophysical models. <i>Computational Geosciences</i> , 2015 , 19, 311-326 | 2.7 | 5 | |
| 176 | Benchmark problems for subsurface flow uncertainty quantification. <i>Journal of Hydrology</i> , 2015 , 531, 168-186 | 6 | 11 | |
| 175 | A multi-continuum multiple flow mechanism simulator for unconventional oil and gas recovery. Journal of Natural Gas Science and Engineering, 2015 , 26, 652-669 | 4.6 | 35 | |
| 174 | Quantitative dynamic analysis of gas desorption contribution to production in shale gas reservoirs. Journal of Unconventional Oil and Gas Resources, 2015 , 9, 18-30 | | 30 | |
| 173 | Lattice Boltzmann Simulation of Particle Motion in Binary Immiscible Fluids. <i>Communications in Computational Physics</i> , 2015 , 18, 757-786 | 2.4 | 19 | |
| 172 | Assisted History Matching for Fractured Reservoirs by Use of Hough-Transform-Based Parameterization. <i>SPE Journal</i> , 2015 , 20, 942-961 | 3.1 | 17 | |
| 171 | Data Assimilation for Strongly Nonlinear Problems by Transformed Ensemble Kalman Filter. <i>SPE Journal</i> , 2015 , 20, 202-221 | 3.1 | 11 | |
| 170 | A Surrogate-based Adaptive Sampling Approach for History Matching and Uncertainty Quantification 2015 , | | 5 | |
| 169 | Efficient data-worth analysis for the selection of surveillance operation in a geologic CO2 sequestration system 2015 , 5, 513-529 | | 2 | |
| 168 | Jointly updating the mean size and spatial distribution of facies in reservoir history matching. <i>Computational Geosciences</i> , 2015 , 19, 727-746 | 2.7 | 8 | |
| 167 | Environmental impacts of hydraulic fracturing in shale gas development in the United States. <i>Petroleum Exploration and Development</i> , 2015 , 42, 876-883 | 4.5 | 63 | |
| 166 | Water flooding performance prediction by multi-layer capacitance-resistive models combined with the ensemble Kalman filter. <i>Journal of Petroleum Science and Engineering</i> , 2015 , 127, 1-19 | 4.4 | 19 | |
| 165 | History matching of statistically anisotropic fields using the Karhunen-Loeve expansion-based global parameterization technique. <i>Computational Geosciences</i> , 2014 , 18, 265-282 | 2.7 | 12 | |
| 164 | An adaptive ANOVA-based PCKF for high-dimensional nonlinear inverse modeling. <i>Journal of Computational Physics</i> , 2014 , 258, 752-772 | 4.1 | 24 | |

| 163 | A multimodel data assimilation framework via the ensemble Kalman filter. <i>Water Resources Research</i> , 2014 , 50, 4197-4219 | 5.4 | 41 |
|-----|--|---------------|-----|
| 162 | Multimodel Bayesian analysis of groundwater data worth. Water Resources Research, 2014 , 50, 8481-84 | 9 5 .4 | 32 |
| 161 | Probabilistic collocation method for strongly nonlinear problems: 2. Transform by displacement. Water Resources Research, 2014 , 50, 8736-8759 | 5.4 | 17 |
| 160 | Efficient and Accurate Global Sensitivity Analysis for Reservoir Simulations By Use of the Probabilistic Collocation Method. <i>SPE Journal</i> , 2014 , 19, 621-635 | 3.1 | 15 |
| 159 | History Matching of Channelized Reservoirs With Vector-Based Level-Set Parameterization. <i>SPE Journal</i> , 2014 , 19, 514-529 | 3.1 | 19 |
| 158 | Observed interannual variability of zonal currents in the equatorial Indian Ocean thermocline and their relation to Indian Ocean Dipole. <i>Geophysical Research Letters</i> , 2014 , 41, 7933-7941 | 4.9 | 17 |
| 157 | Accelerating the iterative linear solver for reservoir simulation on multicore architectures 2014, | | 1 |
| 156 | A backward automatic differentiation framework for reservoir simulation. <i>Computational Geosciences</i> , 2014 , 18, 1009-1022 | 2.7 | 23 |
| 155 | History matching of facies distribution with varying mean lengths or different principle correlation orientations. <i>Journal of Petroleum Science and Engineering</i> , 2014 , 124, 275-292 | 4.4 | 7 |
| 154 | Mechanisms for Geological Carbon Sequestration. <i>Procedia IUTAM</i> , 2014 , 10, 319-327 | | 60 |
| 153 | Stochastic representation and dimension reduction for non-Gaussian random fields: review and reflection. <i>Stochastic Environmental Research and Risk Assessment</i> , 2013 , 27, 1621-1635 | 3.5 | 16 |
| 152 | Atlantic Meridional Overturning Circulation (AMOC) in CMIP5 Models: RCP and Historical Simulations. <i>Journal of Climate</i> , 2013 , 26, 7187-7197 | 4.4 | 241 |
| 151 | Assessing leakage detectability at geologic CO2 sequestration sites using the probabilistic collocation method. <i>Advances in Water Resources</i> , 2013 , 56, 49-60 | 4.7 | 62 |
| 150 | Iodine in groundwater of the North China Plain: Spatial patterns and hydrogeochemical processes of enrichment. <i>Journal of Geochemical Exploration</i> , 2013 , 135, 40-53 | 3.8 | 36 |
| 149 | A partitioned update scheme for state-parameter estimation of distributed hydrologic models based on the ensemble Kalman filter. <i>Water Resources Research</i> , 2013 , 49, 7350-7365 | 5.4 | 30 |
| 148 | History matching of fracture distributions by ensemble Kalman filter combined with vector based level set parameterization. <i>Journal of Petroleum Science and Engineering</i> , 2013 , 108, 288-303 | 4.4 | 25 |
| 147 | Comprehensive review of caprock-sealing mechanisms for geologic carbon sequestration. <i>Environmental Science & Environmental S</i> | 10.3 | 154 |
| 146 | Probabilistic collocation method for strongly nonlinear problems: 1. Transform by location. <i>Water</i> | 5.4 | 34 |

(2010-2013)

| 145 | A Fully Coupled Multiphase Multicomponent Flow and Geomechanics Model for Enhanced Coalbed-Methane Recovery and CO2 Storage. <i>SPE Journal</i> , 2013 , 18, 448-467 | 3.1 | 17 | |
|-----|---|------|----|--|
| 144 | Automatic Estimation of Fracture Properties in Multi-Stage Fractured Shale Gas Horizontal Wells for Reservoir Modeling 2012 , | | 4 | |
| 143 | A sparse grid based Bayesian method for contaminant source identification. <i>Advances in Water Resources</i> , 2012 , 37, 1-9 | 4.7 | 68 | |
| 142 | Tracking colloid transport in real pore structures: Comparisons with correlation equations and experimental observations. <i>Water Resources Research</i> , 2012 , 48, | 5.4 | 9 | |
| 141 | Ensemble based co-optimization of carbon dioxide sequestration and enhanced oil recovery. <i>International Journal of Greenhouse Gas Control</i> , 2012 , 8, 22-33 | 4.2 | 28 | |
| 140 | Multiscale-finite-element-based ensemble Kalman filter for large-scale groundwater flow. <i>Journal of Hydrology</i> , 2012 , 468-469, 22-34 | 6 | 10 | |
| 139 | Physical Response of the Tropical Bubtropical North Atlantic Ocean to Decadal Multidecadal Forcing by African Dust. <i>Journal of Climate</i> , 2012 , 25, 5817-5829 | 4.4 | 15 | |
| 138 | Multidecadal variability of the North Brazil Current and its connection to the Atlantic meridional overturning circulation. <i>Journal of Geophysical Research</i> , 2011 , 116, | | 36 | |
| 137 | Optimization of the Net Present Value of Carbon Dioxide Sequestration and Enhanced Oil Recovery 2011 , | | 18 | |
| 136 | A Comparative Study of the Probabilistic-Collocation and Experimental-Design Methods for Petroleum-Reservoir Uncertainty Quantification. <i>SPE Journal</i> , 2011 , 16, 429-439 | 3.1 | 43 | |
| 135 | Probabilistic Collocation Based Kalman Filter for Assisted History Matching 2011, | | 1 | |
| 134 | A Probabilistic Collocation-Based Kalman Filter for History Matching. SPE Journal, 2011 , 16, 294-306 | 3.1 | 24 | |
| 133 | Effect of spatial heterogeneity on plume distribution and dilution during CO2 sequestration. <i>International Journal of Greenhouse Gas Control</i> , 2011 , 5, 281-293 | 4.2 | 14 | |
| 132 | New method for reservoir characterization and optimization using CRMEnOpt approach. <i>Journal of Petroleum Science and Engineering</i> , 2011 , 77, 155-171 | 4.4 | 26 | |
| 131 | Lattice Boltzmann method on quadtree grids. <i>Physical Review E</i> , 2011 , 83, 026707 | 2.4 | 10 | |
| 130 | History Matching for Non-Gaussian Random Fields Using the Probabilistic Collocation Based Kalman Filter 2011 , | | 2 | |
| 129 | Influence of African dust on ocean@tmosphere variability in the tropical Atlantic. <i>Nature Geoscience</i> , 2011 , 4, 762-765 | 18.3 | 83 | |
| 128 | The NCEP GODAS Ocean Analysis of the Tropical Pacific Mixed Layer Heat Budget on Seasonal to Interannual Time Scales. <i>Journal of Climate</i> , 2010 , 23, 4901-4925 | 4.4 | 74 | |

| 127 | COUPLED FLUID FLOW AND GEOMECHANICS IN COALBED METHANE RECOVERY STUDY. <i>Modern Physics Letters B</i> , 2010 , 24, 1291-1294 | 1.6 | 2 |
|-----|--|-------------------|-----|
| 126 | A multi-scale investigation of interfacial transport, pore fluid flow, and fine particle deposition in a sediment bed. <i>Water Resources Research</i> , 2010 , 46, | 5.4 | 29 |
| 125 | A multiscale probabilistic collocation method for subsurface flow in heterogeneous media. <i>Water Resources Research</i> , 2010 , 46, | 5.4 | 10 |
| 124 | Pore-scale simulation of density-driven convection in fractured porous media during geological CO2 sequestration. <i>Water Resources Research</i> , 2010 , 46, | 5.4 | 26 |
| 123 | Role of low flow and backward flow zones on colloid transport in pore structures derived from real porous media. <i>Environmental Science & Environmental Science & Environmenta</i> | 10.3 | 27 |
| 122 | Tracking colloid transport in porous media using discrete flow fields and sensitivity of simulated colloid deposition to space discretization. <i>Environmental Science & Environmental Science & Enviro</i> | 10.3 | 14 |
| 121 | Data Assimilation of Coupled Fluid Flow and Geomechanics Using the Ensemble Kalman Filter. <i>SPE Journal</i> , 2010 , 15, 382-394 | 3.1 | 18 |
| 120 | Optimization of Carbon Dioxide Sequestration and Enhanced Oil Recovery in Oil Reservoir 2010 , | | 11 |
| 119 | Ensemble Based Characterization and History Matching of Naturally Fractured Tight/Shale Gas Reservoirs 2010 , | | 10 |
| 118 | Coupled fluid-flow and geomechanics for triple-porosity/dual-permeability modeling of coalbed methane recovery. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2010 , 47, 1242-1253 | 6 | 95 |
| 117 | Data assimilation for distributed hydrological catchment modeling via ensemble Kalman filter. <i>Advances in Water Resources</i> , 2010 , 33, 678-690 | 4.7 | 132 |
| 116 | A comparative study of numerical approaches to risk assessment of contaminant transport. <i>Stochastic Environmental Research and Risk Assessment</i> , 2010 , 24, 971-984 | 3.5 | 27 |
| 115 | A stochastic collocation based Kalman filter for data assimilation. <i>Computational Geosciences</i> , 2010 , 14, 721-744 | 2.7 | 34 |
| 114 | History matching of facies distribution with the EnKF and level set parameterization. <i>Journal of Computational Physics</i> , 2010 , 229, 8011-8030 | 4.1 | 74 |
| 113 | Lattice Boltzmann simulation of the rise and dissolution of two-dimensional immiscible droplets. <i>Physics of Fluids</i> , 2009 , 21, 103301 | 4.4 | 14 |
| 112 | Probabilistic collocation method for unconfined flow in heterogeneous media. <i>Journal of Hydrology</i> , 2009 , 365, 4-10 | 6 | 43 |
| 111 | A stochastic approach to nonlinear unconfined flow subject to multiple random fields. <i>Stochastic Environmental Research and Risk Assessment</i> , 2009 , 23, 823-835 | 3.5 | 6 |
| 110 | Observed freshening and warming of the western Pacific Warm Pool. Climate Dynamics, 2009, 33, 565-5 | 58 9 2 | 177 |

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