# Curtis M Oldenburg

List of Publications by Year
in descending order

| 145 papers | 5,593 citations | 61984 43 h-index | 95266 68 g-index |
|---|---|---|---|
| 154 all docs | 154 docs citations | 154 times ranked | 3648 citing authors |

| # | Article | IF | Citations |
|---|---------|----|-----------| 
| 1 | Advanced monitoring and simulation for underground gas storage risk management. Journal of Petroleum Science and Engineering, 2022, 208, 109763. | 4.2 | 13 |
| 2 | Downwind dispersion of $CO_2$ from a major subsea blowout in shallow offshore waters. , 2022, 12, 321-331. | | 2 |
| 3 | Coupled Hydromechanical Modeling of Induced Seismicity From $CO_2$ Injection in the Illinois Basin. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 3.4 | 12 |
| 4 | Numerical investigation of air intrusion and aerobic reactions in municipal solid waste landfills. Waste Management, 2022, 147, 60-72. | 7.4 | 7 |
| 5 | Radial storage efficiency for CO 2 injection: Quantifying effectiveness of local flow control methods. , 2021, 11, 795-806. | | 1 |
| 6 | Major $CO_2$ blowouts from offshore wells are strongly attenuated in water deeper than 50Âm. , 2020, 10, 15-31. | | 10 |
| 7 | CO2 plume evolution in a depleted natural gas reservoir: Modeling of conformance uncertainty reduction over time. International Journal of Greenhouse Gas Control, 2020, 97, 103026. | 4.6 | 9 |
| 8 | Effects of â€œsoilâ€like―particle size on gas transport and water retention properties in aged municipal solid waste from a Sri Lankan open dumpsite. Soil Science Society of America Journal, 2020, 84, 1080-1093. | 2.2 | 1 |
| 9 | Thermodynamic analysis of a novel fossilâ€fuelâ€free energy storage system with a transâ€critical carbon dioxide cycle and heat pump. International Journal of Energy Research, 2020, 44, 7924-7937. | 4.5 | 12 |
| 10 | Thermo-hydrologic processes in maar eruptions: The role of vapor transport and condensation. Journal of Volcanology and Geothermal Research, 2020, 393, 106809. | 2.1 | 1 |
| 11 | Modeling CO 2 flow in support of a shallow subsurface controlled leakage field test. , 2019, 9, 1027-1042. | | 3 |
| 12 | Revisiting the Analytical Solutions of Heat Transport in Fractured Reservoirs Using a Generalized Multirate Memory Function. Water Resources Research, 2019, 55, 1405-1428. | 4.2 | 15 |
| 13 | Simulation Study Comparing Offshore Versus Onshore CO2 Well Blowouts. , 2019, , . | | 2 |
| 14 | A metric for evaluating conformance robustness during geologic CO2 sequestration operations. International Journal of Greenhouse Gas Control, 2019, 85, 100-108. | 4.6 | 8 |
| 15 | On producing $CO_2$ from subsurface reservoirs: simulations of liquidâ€gas phase change caused by decompression. , 2019, 9, 194-208. | | 4 |
| 16 | Geologic Carbon Sequestration: Sustainability and Environmental Risk. , 2019, , 219-234. | | 0 |
| 17 | Simulations of carbon dioxide push-pull into a conjugate fault system modeled after Dixie Valleyâ€"Sensitivity analysis of significant parameters and uncertainty prediction by data-worth analysis. Geothermics, 2018, 74, 121-134. | 3.4 | 0 |
| 18 | Methane Diffusion and Adsorption in Shale Rocks: A Numerical Study Using the Dusty Gas Model in TOUGH2/EOS7C-ECBM. Transport in Porous Media, 2018, 123, 521-531. | 2.6 | 34 |

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| 19 | Revisiting underground gas storage as a direct analogue for geologic carbon sequestration. , 2018, 8, 4-6. | | 5 |
| 20 | Are we all in *concordance* with the meaning of the word *conformance*, and is our definition in *conformity* with standard definitions?. , 2018, 8, 210-214. | | 10 |
| 21 | Modeling the Aliso Canyon underground gas storage well blowout and kill operations using the coupled well-reservoir simulator T2Well. Journal of Petroleum Science and Engineering, 2018, 161, 158-174. | 4.2 | 21 |
| 22 | Commemorating Dr. Gudmundur "Bo" Bodvarsson (1951–2006), a Leader of the Deep Unsaturated Flow and Transport Investigations. Water (Switzerland), 2018, 10, 18. | 2.7 | 13 |
| 23 | Pressure transient analysis during $CO_2$ push-pull tests into faults for EGS characterization. Geothermics, 2018, 75, 180-191. | 3.4 | 2 |
| 24 | Geologic Carbon Sequestration: Sustainability and Environmental Risk. , 2018, , 1-17. | | 0 |
| 25 | Simulations of $CO_2$ injection into fractures and faults for improving their geophysical characterization at EGS sites. Geothermics, 2017, 69, 189-201. | 3.4 | 17 |
| 26 | Coupled thermal–hydrological–mechanical modeling of $CO_2$-enhanced coalbed methane recovery. International Journal of Coal Geology, 2017, 179, 81-91. | 5.0 | 49 |
| 27 | Fully coupled two-phase flow and poromechanics modeling of coalbed methane recovery: Impact of geomechanics on production rate. Journal of Natural Gas Science and Engineering, 2017, 45, 474-486. | 4.4 | 71 |
| 28 | Approximate solutions for diffusive fracture–matrix transfer: Application to storage of dissolved $CO_2$ in fractured rocks. Water Resources Research, 2017, 53, 1746-1762. | 4.2 | 19 |
| 29 | Revisiting the Fundamental Analytical Solutions of Heat and Mass Transfer: The Kernel of Multirate and Multidimensional Diffusion. Water Resources Research, 2017, 53, 9960-9979. | 4.2 | 9 |
| 30 | Informing Geologic $CO_2$ Storage Site Management Decisions under Uncertainty: Demonstration of NRAP's Integrated Assessment Model (NRAP-IAM-CS) Application. Energy Procedia, 2017, 114, 4330-4337. | 1.8 | 5 |
| 31 | Bringing research findings to the real world is an essential and rewarding experience. , 2017, 7, 4-5. | | 0 |
| 32 | Effect of subsurface soil moisture variability and atmospheric conditions on methane gas migration in shallow subsurface. International Journal of Greenhouse Gas Control, 2016, 55, 105-117. | 4.6 | 40 |
| 33 | How the low price of oil can spur CCS research innovation. , 2016, 6, 1-2. | | 4 |
| 34 | On the use of Darcy's law and invasion–percolation approaches for modeling large–scale geologic carbon sequestration. , 2016, 6, 19-33. | | 30 |
| 35 | Coupled geomechanics and flow modeling of thermally induced compaction in heavy oil diatomite reservoirs under cyclic steaming. Journal of Petroleum Science and Engineering, 2016, 147, 474-484. | 4.2 | 12 |
| 36 | Thermodynamic analysis of a compressed carbon dioxide energy storage system using two saline aquifers at different depths as storage reservoirs. Energy Conversion and Management, 2016, 127, 149-159. | 9.2 | 125 |

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| 37 | The National Risk Assessment Partnership's integrated assessment model for carbon storage: A tool to support decision making amidst uncertainty. International Journal of Greenhouse Gas Control, 2016, 52, 175-189. | 4.6 | 70 |
| 38 | Comparison of compressed air energy storage process in aquifers and caverns based on the Huntorf CAES plant. Applied Energy, 2016, 181, 342-356. | 10.1 | 78 |
| 39 | Geologic carbon sequestration injection wells in overpressured storage reservoirs: estimating area of review. , 2016, 6, 775-786. | | 7 |
| 40 | Fast estimation of dense gas dispersion from multiple continuous CO2 surface leakage sources for risk assessment. International Journal of Greenhouse Gas Control, 2016, 49, 323-329. | 4.6 | 7 |
| 41 | Will mercury impurities impact $CO_2$ injectivity in deep sedimentary formations? I. Condensation and net porosity reduction. , 2015, 5, 64-71. | | 5 |
| 42 | Will mercury impurities impact $CO_2$ injectivity in deep sedimentary formations? II. Mineral dissolution and precipitation. , 2015, 5, 72-90. | | 2 |
| 43 | CO2 migration and pressure evolution in deep saline aquifers. International Journal of Greenhouse Gas Control, 2015, 40, 203-220. | 4.6 | 119 |
| 44 | The Northwest Geysers EGS Demonstration Project, California: Pre-stimulation Modeling and Interpretation of the Stimulation. Mathematical Geosciences, 2015, 47, 3-29. | 2.4 | 67 |
| 45 | T2Well—An integrated wellbore–reservoir simulator. Computers and Geosciences, 2014, 65, 46-55. | 4.2 | 137 |
| 46 | Delineating Area of Review in a System with Pre-injection Relative Overpressure. Energy Procedia, 2014, 63, 3715-3722. | 1.8 | 4 |
| 47 | Impact of Induced Seismic Events on Seal Integrity, Texas Gulf Coast. Energy Procedia, 2014, 63, 4807-4815. | 1.8 | 2 |
| 48 | Porous Media Compressed-Air Energy Storage (PM-CAES): Theory and Simulation of the Coupled Wellbore–Reservoir System. Transport in Porous Media, 2013, 97, 201-221. | 2.6 | 63 |
| 49 | Regional evaluation of brine management for geologic carbon sequestration. International Journal of Greenhouse Gas Control, 2013, 14, 39-48. | 4.6 | 31 |
| 50 | The role of $CO_2$ in $CH_4$ exsolution from deep brine: Implications for geologic carbon sequestration. , 2013, 3, 359-377. | | 14 |
| 51 | Reply to comments by Schnaar et al. on "Brine flow up a well caused by pressure perturbation from geologic carbon sequestration: Static and dynamic evaluations" by Birkholzer et al. (2011). International Journal of Greenhouse Gas Control, 2013, 17, 544-545. | 4.6 | 0 |
| 52 | Simulation of CO2-EGS in a Fractured Reservoir with Salt Precipitation. Energy Procedia, 2013, 37, 6617-6624. | 1.8 | 28 |
| 53 | Quantification of Risk Profiles and Impacts of Uncertainties as part of US DOE's National Risk Assessment Partnership (NRAP). Energy Procedia, 2013, 37, 4765-4773. | 1.8 | 29 |
| 54 | Analysis of potential leakage pathways at the Cranfield, MS, U.S.A., CO2 sequestration site. International Journal of Greenhouse Gas Control, 2013, 18, 388-400. | 4.6 | 36 |

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| 55 | Monitoring deformation at the Geysers Geothermal Field, California using C‑band and X‑band interferometric synthetic aperture radar. Geophysical Research Letters, 2013, 40, 2567-2572. | 4.0 | 50 |
| 56 | Selected papers from the 11th US annual conference on Carbon Capture, Utilization, and Sequestration. , 2013, 3, 1-2. | | 5 |
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| 58 | Simulation‑based estimates of safety distances for pipeline transportation of carbon dioxide. , 2013, 3, 66-83. | | 19 |
| 59 | Utilization of $CO_2$ as cushion gas for porous media compressed air energy storage. , 2013, 3, 124-135. | | 33 |
| 60 | Numerical simulations of the Macondo well blowout reveal strong control of oil flow by reservoir permeability and exsolution of gas. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 20254-20259. | 7.1 | 22 |
| 61 | Measuring and modeling fault density for CO2 storage plume-fault encounter probability estimation. AAPG Bulletin, 2012, 97, 597-618. | 1.5 | 3 |
| 62 | The risk of induced seismicity: is cap‑rock integrity on shaky ground?. , 2012, 2, 217-218. | | 13 |
| 63 | Assessing health impacts of CO2 leakage from a geological storage site into buildings: Role of attenuation in the unsaturated zone and building foundation. International Journal of Greenhouse Gas Control, 2012, 9, 322-333. | 4.6 | 31 |
| 64 | Numerical simulation of salt precipitation in the fractures of a CO2-enhanced geothermal system. Geothermics, 2012, 44, 13-22. | 3.4 | 115 |
| 65 | Why we need the 'and' in 'CO$_2$ utilization and storage'. , 2012, 2, 1-2. | | 8 |
| 66 | Simulations of long‑column flow experiments related to geologic carbon sequestration: effects of outer wall boundary condition on upward flow and formation of liquid $CO_2$. , 2012, 2, 279-303. | | 14 |
| 67 | Brine flow up a well caused by pressure perturbation from geologic carbon sequestration: Static and dynamic evaluations. International Journal of Greenhouse Gas Control, 2011, 5, 850-861. | 4.6 | 79 |
| 68 | Comparative Assessment of Status and Opportunities for Carbon Dioxide Capture and Storage and Radioactive Waste Disposal in North America. Advances in Global Change Research, 2011, , 367-393. | 1.6 | 1 |
| 69 | Analytical solution for two-phase flow in a wellbore using the drift-flux model. Advances in Water Resources, 2011, 34, 1656-1665. | 3.8 | 65 |
| 70 | Implementation and Usability Evaluation of a Cloud Platform for Scientific Computing as a Service (SCaaS). , 2011, , . | | 10 |
| 71 | Estimating the probability of $CO_2$ plumes encountering faults. , 2011, 1, 160-174. | | 10 |
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| 87 | Short-Range Atmospheric Dispersion of Carbon Dioxide. Boundary-Layer Meteorology, 2009, 133, 17-34. | 2.3 | 13 |
| 88 | The consequences of failure should be considered in siting geologic carbon sequestration projects. International Journal of Greenhouse Gas Control, 2009, 3, 658-663. | 4.6 | 23 |
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| 91 | Case studies of the application of the Certification Framework to two geologic carbon sequestration sites. Energy Procedia, 2009, 1, 63-70. | 1.8 | 7 |
| 92 | Wellbore flow model for carbon dioxide and brine. Energy Procedia, 2009, 1, 71-78. | 1.8 | 48 |
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| 105 | Interpreting Velocities from Heat-Based Flow Sensors by Numerical Simulation. Ground Water, 2006, 44, 386-393. | 1.3 | 12 |
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| 111 | Coupled Vadose Zone and Atmospheric Surface–Layer Transport of Carbon Dioxide from Geologic Carbon Sequestration Sites. Vadose Zone Journal, 2004, 3, 848-857. | 2.2 | 51 |
| 112 | Comparison of Aerobic and Anaerobic Biotreatment of Municipal Solid Waste. Journal of the Air and Waste Management Association, 2004, 54, 815-822. | 1.9 | 84 |
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| 120 | Flow and transport in unsaturated fractured rock: effects of multiscale heterogeneity of hydrogeologic properties. Journal of Contaminant Hydrology, 2003, 60, 1-30. | 3.3 | 42 |
| 121 | Fault-matrix interactions in nonwelded tuff of the Paintbrush Group at Yucca Mountain. Journal of Contaminant Hydrology, 2003, 62-63, 269-286. | 3.3 | 17 |
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| 124 | On Leakage and Seepage from Geologic Carbon Sequestration Sites: Unsaturated Zone Attenuation. Vadose Zone Journal, 2003, 2, 287-296. | 2.2 | 27 |
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| 127 | Process Modeling of CO2 Injection into Natural Gas Reservoirs for Carbon Sequestration and Enhanced Gas Recovery. Energy &amp; Fuels, 2001, 15, 293-298. | 5.1 | 260 |
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