

Qingchun Yu

List of Publications by Year in descending order

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47
papers

889
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times ranked

667
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | The effect of moisture on the methane adsorption capacity of shales: A study case in the eastern Qaidam Basin in China. <i>Journal of Hydrology</i> , 2016, 542, 487-505. | 5.4 | 71 |
| 2 | A physical and numerical investigation of the failure mechanism of weak rocks surrounding tunnels. <i>Computers and Geotechnics</i> , 2014, 61, 292-307. | 4.7 | 69 |
| 3 | Dynamic displacement and non-equilibrium dissolution of supercritical CO ₂ in low-permeability sandstone: An experimental study. <i>International Journal of Greenhouse Gas Control</i> , 2013, 14, 1-14. | 4.6 | 67 |
| 4 | Estimation of the REV size for blockiness of fractured rock masses. <i>Computers and Geotechnics</i> , 2016, 76, 83-92. | 4.7 | 51 |
| 5 | The effect of water saturation on methane breakthrough pressure: An experimental study on the Carboniferous shales from the eastern Qaidam Basin, China. <i>Journal of Hydrology</i> , 2016, 543, 832-848. | 5.4 | 42 |
| 6 | CO ₂ breakthrough pressure and permeability for unsaturated low-permeability sandstone of the Ordos Basin. <i>Journal of Hydrology</i> , 2017, 550, 331-342. | 5.4 | 41 |
| 7 | Supercritical CO ₂ dissolution and mass transfer in low-permeability sandstone: Effect of concentration difference in water-flood experiments. <i>International Journal of Greenhouse Gas Control</i> , 2014, 28, 328-342. | 4.6 | 32 |
| 8 | Pore structure characterization of Carboniferous shales from the eastern Qaidam Basin, China: Combining helium expansion with low-pressure adsorption and mercury intrusion. <i>Journal of Petroleum Science and Engineering</i> , 2017, 152, 91-103. | 4.2 | 31 |
| 9 | Apparent Permeability and Gas Flow Behavior in Carboniferous Shale from the Qaidam Basin, China: An Experimental Study. <i>Transport in Porous Media</i> , 2017, 116, 585-611. | 2.6 | 30 |
| 10 | Experimental Investigation on the Movability of Water in Shale Nanopores: A Case Study of Carboniferous Shale From the Qaidam Basin, China. <i>Water Resources Research</i> , 2020, 56, e2019WR026973. | 4.2 | 29 |
| 11 | Experimental and Modeling Study of Methane Adsorption onto Partially Saturated Shales. <i>Water Resources Research</i> , 2018, 54, 5017-5029. | 4.2 | 26 |
| 12 | Breakthrough pressure and permeability in partially water-saturated shales using methane-carbon dioxide gas mixtures: An experimental study of Carboniferous shales from the eastern Qaidam Basin, China. <i>AAPG Bulletin</i> , 2019, 103, 273-301. | 1.5 | 26 |
| 13 | Blockiness level of rock mass around underground powerhouse of Three Gorges Project. <i>Tunnelling and Underground Space Technology</i> , 2015, 48, 67-76. | 6.2 | 24 |
| 14 | A method for identifying three-dimensional rock blocks formed by curved fractures. <i>Computers and Geotechnics</i> , 2015, 65, 1-11. | 4.7 | 24 |
| 15 | Residual water formation during the CO ₂ storage process in deep saline aquifers and factors influencing it: A review. <i>Journal of CO₂ Utilization</i> , 2017, 20, 253-262. | 6.8 | 24 |
| 16 | Analysis of removability and stability of rock blocks by considering the rock bridge effect. <i>Canadian Geotechnical Journal</i> , 2016, 53, 384-395. | 2.8 | 23 |
| 17 | Effect of CH ₄ on the CO ₂ breakthrough pressure and permeability of partially saturated low-permeability sandstone in the Ordos Basin, China. <i>Journal of Hydrology</i> , 2018, 556, 732-748. | 5.4 | 23 |
| 18 | Rock-core scale modeling of initial water saturation effects on CO ₂ breakthrough pressure in CO ₂ geo-sequestration. <i>Journal of Hydrology</i> , 2020, 580, 124234. | 5.4 | 21 |

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|----|---|-----|-----------|
| 19 | Modeling and measurement of CO ₂ solubility in salty aqueous solutions and application in the Erdos Basin. <i>Fluid Phase Equilibria</i> , 2014, 377, 45-55. | 2.5 | 20 |
| 20 | Prospects of Carboniferous Shale Gas Exploitation in the Eastern Qaidam Basin. <i>Acta Geologica Sinica</i> , 2014, 88, 620-634. | 1.4 | 17 |
| 21 | Effect of Water Saturation on Pressure-Dependent Permeability of Carboniferous Shale of the Qaidam Basin, China. <i>Transport in Porous Media</i> , 2018, 123, 147-172. | 2.6 | 14 |
| 22 | Identifying rock blocks based on exact arithmetic. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2016, 86, 80-90. | 5.8 | 13 |
| 23 | The effect of water vapor on methane adsorption in the nanopores of shale. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 101, 104536. | 4.4 | 13 |
| 24 | Experimental study on the relationship between the matric potential and methane breakthrough pressure of partially water-saturated shale fractures. <i>Journal of Hydrology</i> , 2019, 578, 124044. | 5.4 | 12 |
| 25 | A method to determine the permeability of shales by using the dynamic process data of methane adsorption. <i>Engineering Geology</i> , 2019, 253, 111-122. | 6.3 | 12 |
| 26 | Comparing the permeability of dry and moisturized crushed shales determined by the dynamic process data of methane adsorption. <i>Journal of Hydrology</i> , 2020, 590, 125375. | 5.4 | 12 |
| 27 | Stability analysis of three-dimensional rock blocks based on general block method. <i>Computers and Geotechnics</i> , 2020, 124, 103621. | 4.7 | 12 |
| 28 | Methane adsorption on porous nano-silica in the presence of water: An experimental and ab initio study. <i>Journal of Colloid and Interface Science</i> , 2016, 467, 60-69. | 9.4 | 11 |
| 29 | Dynamic behaviors of methane adsorption on partially saturated shales. <i>Journal of Petroleum Science and Engineering</i> , 2020, 190, 107071. | 4.2 | 11 |
| 30 | The effects of quartz content on the formation of residual water in a brine-CO ₂ -quartz system: An experimental study. <i>Journal of Natural Gas Science and Engineering</i> , 2015, 27, 1609-1619. | 4.4 | 10 |
| 31 | Determining the REV for Fracture Rock Mass Based on Seepage Theory. <i>Geofluids</i> , 2017, 2017, 1-8. | 0.7 | 9 |
| 32 | Experimental Investigation of Spontaneous Water Imbibition into Methane-Saturated Shales under Different Methane Pressures. <i>Energy & Fuels</i> , 2020, 34, 14356-14367. | 5.1 | 8 |
| 33 | Quantitative experimental investigation of multiple P-T effects on primary drainage process during scCO ₂ storage in deep saline aquifers. <i>Journal of Hydrology</i> , 2021, 596, 126143. | 5.4 | 8 |
| 34 | The Effects of Brine Species on the Formation of Residual Water in a CO ₂ -Brine System. <i>Transport in Porous Media</i> , 2014, 104, 553-564. | 2.6 | 7 |
| 35 | The role of fluid-rock interactions in permeability behavior of shale with different pore fluids. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2022, 150, 105023. | 5.8 | 7 |
| 36 | Quantitative investigation of phase characteristic effects on CO ₂ breakthrough pressures in unsaturated Low-Permeability sandstone. <i>Journal of Hydrology</i> , 2022, 609, 127780. | 5.4 | 7 |

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|----|--|-----|-----------|
| 37 | The Effects of Brine Concentration on the Formation of Residual Water. <i>Procedia Earth and Planetary Science</i> , 2013, 7, 496-499. | 0.6 | 6 |
| 38 | Experimental investigation into simultaneous adsorption of water vapor and methane onto shales. <i>Journal of Hydrology</i> , 2022, 604, 127200. | 5.4 | 6 |
| 39 | Stability analysis method for rock blocks formed by curved fractures. <i>Tunnelling and Underground Space Technology</i> , 2019, 85, 182-195. | 6.2 | 4 |
| 40 | Experimental investigation into the permeability of water vapor in shales. <i>Journal of Hydrology</i> , 2022, 609, 127697. | 5.4 | 4 |
| 41 | Numerical Investigations of Blockiness of Fractured Rocks Based on Fracture Spacing and Disc Diameter. <i>International Journal of Geomechanics</i> , 2020, 20, 04020004. | 2.7 | 3 |
| 42 | Experimental Investigations of the Process of Carbonate Fracture Dissolution Enlargement under Reservoir Temperature and Pressure Conditions. <i>Geofluids</i> , 2018, 2018, 1-19. | 0.7 | 2 |
| 43 | Experimental investigations on water condensation in the nanopores of shales. <i>Energy Sources, Part A: Recovery, Utilization and Environmental Effects</i> , 0, , 1-19. | 2.3 | 2 |
| 44 | Gas Slippage in Microscale Fractures of Partially Saturated Shale of Different Matric Potentials. <i>SPE Journal</i> , 2022, 27, 3020-3034. | 3.1 | 2 |
| 45 | Dynamic model for the simultaneous adsorption of water vapor and methane on shales. <i>Journal of Natural Gas Science and Engineering</i> , 2022, 102, 104578. | 4.4 | 2 |
| 46 | Comparing the adsorption of carbon dioxide and methane in Carboniferous shale from the Qaidam Basin, China. <i>Applied Geochemistry</i> , 2022, 143, 105368. | 3.0 | 1 |
| 47 | Constructing boundary structures of rock blocks. <i>International Journal for Numerical and Analytical Methods in Geomechanics</i> , 2019, 43, 1373-1391. | 3.3 | 0 |