# lanlan Jiang

List of Publications by Year
in descending order

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Version: 2024-02-01

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|---|---|---|---|
| 123<br>papers | 3,016<br>citations | 172457<br>29<br>h-index | 223800<br>46<br>g-index |
| 123<br>all docs | 123<br>docs citations | 123<br>times ranked | 1753<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Post-combustion CO2 capture and separation in flue gas based on hydrate technologyï¼šA review. Renewable and Sustainable Energy Reviews, 2022, 154, 111806. | 16.4 | 52 |
| 2 | High-efficiency gas storage via methane-tetrahydrofuran hydrate formation: Insights from hydrate structure and morphological analyses. Fuel, 2022, 311, 122494. | 6.4 | 8 |
| 3 | Production Characteristics of Natural Gas Hydrate in Muddy Marine Sediments of Different Moistures by Depressurization. Energy & Fuels, 2022, 36, 1522-1530. | 5.1 | 9 |
| 4 | Study on Seepage and Mass Transfer Characteristics During CO2 Storage in Saline Aquifer. Lecture Notes in Civil Engineering, 2022, , 210-220. | 0.4 | 0 |
| 5 | Experimental Study on the Density-Driven Convective Mixing of CO<sub>2</sub> and Brine at Reservoir Temperature and Pressure Conditions. Energy & Fuels, 2022, 36, 10261-10268. | 5.1 | 6 |
| 6 | Effects of Particle Sizes on Growth Characteristics of Propane Hydrate in Uniform/Nonuniform Sands for Desalination Application. Energy & Fuels, 2022, 36, 1003-1014. | 5.1 | 7 |
| 7 | High-efficiency separation of CO2 from CO2-CH4 gas mixtures via gas hydrates under static conditions. Separation and Purification Technology, 2022, 296, 121297. | 7.9 | 26 |
| 8 | Effect of Methane Solubility on Hydrate Formation and Dissociation: Review and Perspectives. Energy & Fuels, 2022, 36, 7269-7283. | 5.1 | 5 |
| 9 | New Spectrophotometric Method for Quantitative Characterization of Density-Driven Convective Instability. Polymers, 2021, 13, 661. | 4.5 | 7 |
| 10 | Experimental study on the CO2-decane displacement front behavior in high permeability sand evaluated by magnetic resonance imaging. Energy, 2021, 217, 119433. | 8.8 | 16 |
| 11 | Unstable Densityâ€Driven Convection of CO<sub>2</sub> in Homogeneous and Heterogeneous Porous Media With Implications for Deep Saline Aquifers. Water Resources Research, 2021, 57, e2020WR028132. | 4.2 | 28 |
| 12 | Quantitative study of density-driven convection mass transfer in porous media by MRI. Journal of Hydrology, 2021, 594, 125941. | 5.4 | 14 |
| 13 | Pore-scale investigation on nonaqueous phase liquid dissolution and mass transfer in 2D and 3D porous media. International Journal of Heat and Mass Transfer, 2021, 169, 120901. | 4.8 | 16 |
| 14 | Dependence of the hydrate-based CO2 storage process on the hydrate reservoir environment in high-efficiency storage methods. Chemical Engineering Journal, 2021, 415, 128937. | 12.7 | 54 |
| 15 | Behaviors of NaCl Ions Intruding into Methane Hydrate under a Static Electric Field. Journal of Physical Chemistry C, 2021, 125, 18483-18493. | 3.1 | 11 |
| 16 | Kinetics and spatial distribution of tetrahydrofuran/methane hydrate formation in an unstirred reactor: Application in natural gas storage. Fuel, 2021, 300, 121011. | 6.4 | 14 |
| 17 | Pore-scale investigation of wettability impact on residual nonaqueous phase liquid dissolution in natural porous media. Science of the Total Environment, 2021, 787, 147406. | 8.0 | 9 |
| 18 | Quantitative analysis of methane hydrate formation in size-varied porous media for gas storage and transportation application. Fuel, 2021, 301, 121021. | 6.4 | 33 |

| # | ARTICLE | IF | CITATIONS |
|---|---|---|---|
| 19 | Asymmetric competitive adsorption of CO2/CH4 binary mixture in shale matrix with heterogeneous surfaces. Chemical Engineering Journal, 2021, 422, 130025. | 12.7 | 33 |
| 20 | MRI investigation of hydrate pore habits and dynamic seepage characteristics in natural gas hydrates sand matrix. Fuel, 2021, 303, 121287. | 6.4 | 20 |
| 21 | Effect of nanoparticles as a substitute for kinetic additives on the hydrate-based CO2 capture. Chemical Engineering Journal, 2021, 424, 130329. | 12.7 | 30 |
| 22 | High resolution MRI studies of CO2 hydrate formation and dissociation near the gas-water interface. Chemical Engineering Journal, 2021, 425, 131426. | 12.7 | 11 |
| 23 | Microscope insights into gas hydrate formation and dissociation in sediments by using microfluidics. Chemical Engineering Journal, 2021, 425, 130633. | 12.7 | 32 |
| 24 | Production Behaviors of Water-Saturated Methane Hydrate Deposits during the Depressurization with/without Thermal Water Compensation Process. Energy & Fuels, 2021, 35, 1638-1647. | 5.1 | 16 |
| 25 | Fast Peelâ€Off Ultrathin, Transparent, and Freeâ€Standing Films Assembled from Lowâ€Dimensional Materials Using MXene Sacrificial Layers and Produced Bubbles. Small Methods, 2021, , 2101388. | 8.6 | 3 |
| 26 | Quantitative analysis of CO<sub>2</sub> hydrate formation in porous media by proton NMR. AICHE Journal, 2020, 66, e16820. | 3.6 | 27 |
| 27 | NMR quantitative investigation on methane hydrate formation characteristics under different driving forces. Fuel, 2020, 261, 116364. | 6.4 | 28 |
| 28 | Pore-throat characterization of unconsolidated porous media using watershed-segmentation algorithm. Powder Technology, 2020, 362, 635-644. | 4.2 | 21 |
| 29 | Dispersion characteristics of CO2 enhanced gas recovery over a wide range of temperature and pressure. Journal of Natural Gas Science and Engineering, 2020, 73, 103056. | 4.4 | 12 |
| 30 | A review of micro computed tomography studies on the gas hydrate pore habits and seepage properties in hydrate bearing sediments. Journal of Natural Gas Science and Engineering, 2020, 83, 103555. | 4.4 | 21 |
| 31 | Review of Morphology Studies on Gas Hydrate Formation for Hydrate-Based Technology. Crystal Growth and Design, 2020, 20, 8148-8161. | 3.0 | 29 |
| 32 | Change in Convection Mixing Properties with Salinity and Temperature: CO2 Storage Application. Polymers, 2020, 12, 2084. | 4.5 | 7 |
| 33 | Promoting and Inhibitory Effects of Hydrophilic/Hydrophobic Modified Aluminum Oxide Nanoparticles on Carbon Dioxide Hydrate Formation. Energies, 2020, 13, 5380. | 3.1 | 7 |
| 34 | Morphology-Based Kinetic Study of the Formation of Carbon Dioxide Hydrates with Promoters. Energy & Fuels, 2020, 34, 7307-7315. | 5.1 | 15 |
| 35 | An experimental study of density-driven convection of fluid pairs with viscosity contrast in porous media. International Journal of Heat and Mass Transfer, 2020, 152, 119514. | 4.8 | 25 |
| 36 | Experimental study on the displacement patterns and the phase diagram of immiscible fluid displacement in three-dimensional porous media. Advances in Water Resources, 2020, 140, 103584. | 3.8 | 32 |

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|---|---|---|---|
| 37 | Enhanced Mass Transfer by Density-Driven Convection during CO<sub>2</sub> Geological Storage. Industrial & Engineering Chemistry Research, 2020, 59, 9300-9309. | 3.7 | 9 |
| 38 | Kinetic analysis of nano-SiO2 promoting methane hydrate formation in porous medium. Journal of Natural Gas Science and Engineering, 2020, 79, 103375. | 4.4 | 16 |
| 39 | MRI observation of CO2-C3H8 hydrate-induced water migration in glass sand. Chemical Engineering Science, 2019, 207, 1096-1106. | 3.8 | 17 |
| 40 | The effect of density difference on the development of density-driven convection under large Rayleigh number. International Journal of Heat and Mass Transfer, 2019, 139, 1087-1095. | 4.8 | 13 |
| 41 | Dissociation characteristics of methane hydrate using depressurization combined with thermal stimulation. Chinese Journal of Chemical Engineering, 2019, 27, 2089-2098. | 3.5 | 26 |
| 42 | Enhancement of CO2 dissolution and sweep efficiency in saline aquifer by micro bubble CO2 injection. International Journal of Heat and Mass Transfer, 2019, 138, 1211-1221. | 4.8 | 14 |
| 43 | CO2 and alkane minimum miscible pressure estimation by the extrapolation of interfacial tension. Fluid Phase Equilibria, 2019, 494, 103-114. | 2.5 | 26 |
| 44 | Application of Xâ€Ray Computed Tomography Technology in Gas Hydrate. Energy Technology, 2019, 7, 1800699. | 3.8 | 15 |
| 45 | Phase Equilibrium Data of CO<sub>2</sub>â€“MCP Hydrates and CO<sub>2</sub> Gas Uptake Comparisons with CO<sub>2</sub>â€“CP Hydrates and CO<sub>2</sub>â€“C<sub>3</sub>H<sub>8</sub> Hydrates. Journal of Chemical & Engineering Data, 2019, 64, 372-379. | 1.9 | 15 |
| 46 | Dynamic evolution of the CO2-brine interfacial area during brine imbibition in porous media. International Journal of Heat and Mass Transfer, 2019, 128, 1125-1135. | 4.8 | 14 |
| 47 | Measurement and estimation of CO2â€“brine interfacial tension and rock wettability under CO2 sub- and super-critical conditions. Journal of Colloid and Interface Science, 2019, 534, 605-617. | 9.4 | 79 |
| 48 | Displacement and Dissolution Characteristics of CO $$_{2}$$ 2 /Brine System in Unconsolidated Porous Media. Transport in Porous Media, 2018, 122, 595-609. | 2.6 | 2 |
| 49 | The horizontal dispersion properties of CO2-CH4 in sand packs with CO2 displacing the simulated natural gas. Journal of Natural Gas Science and Engineering, 2018, 50, 293-300. | 4.4 | 14 |
| 50 | Gravitational Fingering Due to Density Increase by Mixing at a Vertical Displacing Front in Porous Media. Energy & Fuels, 2018, 32, 658-669. | 5.1 | 10 |
| 51 | Assessment of fluid distribution and flow properties in two phase fluid flow using X-ray CT technology. Heat and Mass Transfer, 2018, 54, 1217-1224. | 2.1 | 4 |
| 52 | The role of flow rates on flow patterns and saturation in high-permeability porous media. International Journal of Greenhouse Gas Control, 2018, 78, 364-374. | 4.6 | 8 |
| 53 | Production characteristics of two class water-excess methane hydrate deposits during depressurization. Fuel, 2018, 232, 99-107. | 6.4 | 60 |
| 54 | Characterizing the Dissolution Rate of CO2-Brine in Porous Media under Gaseous and Supercritical Conditions. Applied Sciences (Switzerland), 2018, 8, 4. | 2.5 | 13 |

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|---|---|---|---|
| 55 | A spectrophotometric method for measuring dissolved CO2 in saline water. Experiments in Fluids, 2018, 59, 1. | 2.4 | 8 |
| 56 | Effects of Na<sup>+</sup>, K<sup>+</sup>, Ca<sup>2+</sup>, and Mg<sup>2+</sup> cations on CO<sub>2</sub>â€“brine interfacial tension under offshore storage conditions. , 2018, 8, 762-780. | | 10 |
| 57 | Permeability estimation of porous media by using an improved capillary bundle model based on micro-CT derived pore geometries. Heat and Mass Transfer, 2017, 53, 49-58. | 2.1 | 29 |
| 58 | Displacement front behavior of near miscible CO 2 flooding in decane saturated synthetic sandstone cores revealed by magnetic resonance imaging. Magnetic Resonance Imaging, 2017, 37, 171-178. | 1.8 | 18 |
| 59 | In Situ Local Contact Angle Measurement in a CO<sub>2</sub>â€“Brineâ€“Sand System Using Microfocused X-ray CT. Langmuir, 2017, 33, 3358-3366. | 3.5 | 38 |
| 60 | Quantifying the dynamic density driven convection in high permeability packed beds. Magnetic Resonance Imaging, 2017, 39, 168-174. | 1.8 | 22 |
| 61 | Investigation of CO2 dissolution via mass transfer inside a porous medium. Advances in Water Resources, 2017, 110, 97-106. | 3.8 | 28 |
| 62 | An Experimental Study on the Influence of CO2 Containing N2 on CO2 Sequestration by X-ray CT Scanning. Energy Procedia, 2017, 114, 4119-4128. | 1.8 | 5 |
| 63 | Poreâ€Scale Imaging and Analysis of Phase Topologies and Displacement Mechanisms for CO<sub>2</sub>â€Brine Twoâ€Phase Flow in Unconsolidated Sand Packs. Water Resources Research, 2017, 53, 9127-9144. | 4.2 | 19 |
| 64 | Study of Density Driven Convection in a Hele-Shaw Cell with Application to the Carbon Sequestration in Aquifers. Energy Procedia, 2017, 114, 4303-4312. | 1.8 | 11 |
| 65 | The Effect of Water Flushing on CO2 Concentration Around Injection Well as Identified through Laboratory Study. Energy Procedia, 2017, 114, 4896-4901. | 1.8 | 2 |
| 66 | Mass transfer coefficient measurement during brine flush in a CO2-filled packed bed by X-ray CT scanning. International Journal of Heat and Mass Transfer, 2017, 115, 615-624. | 4.8 | 38 |
| 67 | Poreâ€scale investigation of effects of heterogeneity on CO<sub>2</sub> geological storage using stratified sand packs. , 2017, 7, 972-987. | | 14 |
| 68 | Effects of Multiple Factors on Methane Hydrate Reformation in a Porous Medium. ChemistrySelect, 2017, 2, 6030-6035. | 1.5 | 8 |
| 69 | Experimental Study of Density-driven Convection in Porous Media by Using MRI. Energy Procedia, 2017, 105, 4210-4215. | 1.8 | 9 |
| 70 | Behavior of CO 2 /water flow in porous media for CO 2 geological storage. Magnetic Resonance Imaging, 2017, 37, 100-106. | 1.8 | 11 |
| 71 | Gas recovery from depressurized methane hydrate deposits with different water saturations. Applied Energy, 2017, 187, 180-188. | 10.1 | 85 |
| 72 | Experimental determination of wettability and heterogeneity effect on CO<sub>2</sub> distribution in porous media. , 2016, 6, 401-415. | | 20 |

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|---|---|---|---|
| 73 | Hydrate phase equilibrium for CH<sub>4</sub>â€CO<sub>2</sub>â€H<sub>2</sub>O system in porous media. Canadian Journal of Chemical Engineering, 2016, 94, 1592-1598. | 1.7 | 15 |
| 74 | Characterization of dissolution process during brine injection in Berea sandstones: an experiment study. RSC Advances, 2016, 6, 114320-114328. | 3.6 | 10 |
| 75 | Estimation of minimum miscibility pressure (MMP) of CO2 and liquid n-alkane systems using an improved MRI technique. Magnetic Resonance Imaging, 2016, 34, 97-104. | 1.8 | 29 |
| 76 | Solar radiation transfer and performance analysis for a low concentrating photovoltaic/thermal system. Environmental Progress and Sustainable Energy, 2016, 35, 263-270. | 2.3 | 6 |
| 77 | A visualization study on two-phase gravity drainage in porous media by using magnetic resonance imaging. Magnetic Resonance Imaging, 2016, 34, 855-863. | 1.8 | 8 |
| 78 | Poreâ€scale contact angle measurements of CO <sub>2</sub> â€“brineâ€“glass beads system using microâ€focused Xâ€ray computed tomography. Micro and Nano Letters, 2016, 11, 524-527. | 1.3 | 17 |
| 79 | Experimental study of 3D Rayleighâ€“Taylor convection between miscible fluids in a porous medium. Advances in Water Resources, 2016, 97, 224-232. | 3.8 | 47 |
| 80 | Three-dimensional structure of natural convection in a porous medium: Effect of dispersion on finger structure. International Journal of Greenhouse Gas Control, 2016, 53, 274-283. | 4.6 | 50 |
| 81 | CO<sub>2</sub>/water two-phase flow in a two-dimensional micromodel of heterogeneous pores and throats. RSC Advances, 2016, 6, 73897-73905. | 3.6 | 18 |
| 82 | CO<sub>2</sub> capillary trapping behaviour in glass sand packed heterogeneous porous media during drainage and imbibition revealed by magnetic resonance imaging. RSC Advances, 2016, 6, 101452-101461. | 3.6 | 2 |
| 83 | Noninvasive temperature and velocity mapping using magnetic resonance imaging. Journal of Visualization, 2016, 19, 403-415. | 1.8 | 0 |
| 84 | Experimental study of two-phase flow properties of CO<sub>2</sub>containing N<sub>2</sub>in porous media. RSC Advances, 2016, 6, 59360-59369. | 3.6 | 6 |
| 85 | Three-Dimensional Visualization of Natural Convection in Porous Media. Energy Procedia, 2016, 86, 460-468. | 1.8 | 20 |
| 86 | Effect of depressurization pressure on methane recovery from hydrateâ€“gasâ€“water bearing sediments. Fuel, 2016, 166, 419-426. | 6.4 | 93 |
| 87 | Experimental study on CO2 diffusion in bulk n-decane and n-decane saturated porous media using micro-CT. Fluid Phase Equilibria, 2016, 417, 212-219. | 2.5 | 30 |
| 88 | Experiment Study on Temperature Distribution in Water-Saturated Porous Media. Applied Magnetic Resonance, 2015, 46, 793-808. | 1.2 | 0 |
| 89 | Methane hydrate formation/reformation in three experimental modes: A preliminary investigation of blockage prevention during exploitation. Journal of Natural Gas Science and Engineering, 2015, 27, 1814-1820. | 4.4 | 33 |
| 90 | Adsorption isotherms and kinetic characteristics of methane on block anthracite over a wide pressure range. Journal of Energy Chemistry, 2015, 24, 245-256. | 12.9 | 19 |

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|---|---|---|---|
| 91 | Application of X-ray CT investigation of CO2â€“brine flow in porous media. Experiments in Fluids, 2015, 56, 1. | 2.4 | 9 |
| 92 | Effects of an additive mixture (THF+TBAB) on CO2 hydrate phase equilibrium. Fluid Phase Equilibria, 2015, 401, 27-33. | 2.5 | 32 |
| 93 | MRI investigation of waterâ€“oil two phase flow in straight capillary, bifurcate channel and monolayered glass bead pack. Magnetic Resonance Imaging, 2015, 33, 918-926. | 1.8 | 5 |
| 94 | Dynamic stability characteristics of fluid flow in CO<sub>2</sub> miscible displacements in porous media. RSC Advances, 2015, 5, 34839-34853. | 3.6 | 10 |
| 95 | Interfacial tension and contact angle measurements for the evaluation of <scp>CO</scp><sub>2</sub>â€brine twoâ€phase flow characteristics in porous media. Environmental Progress and Sustainable Energy, 2015, 34, 1756-1762. | 2.3 | 35 |
| 96 | Minimum miscibility pressure estimation for a CO2/n-decane system in porous media by X-ray CT. Experiments in Fluids, 2015, 56, 1. | 2.4 | 20 |
| 97 | Behaviour of hydrate-based technology for H2/CO2 separation in glass beads. Separation and Purification Technology, 2015, 141, 170-178. | 7.9 | 24 |
| 98 | An experiment study on fluid heat and mass transfer properties in porous media using MRI. Russian Journal of Physical Chemistry A, 2014, 88, 2214-2219. | 0.6 | 2 |
| 99 | Magnetic resonance imaging analysis on the in-situ mixing zone of CO2 miscible displacement flows in porous media. Journal of Applied Physics, 2014, 115, 244904. | 2.5 | 14 |
| 100 | CO2/Water Displacement in Porous Medium Under Pressure and Temperature Conditions for Geological Storage. Energy Procedia, 2014, 61, 282-285. | 1.8 | 5 |
| 101 | Hydrate phase equilibrium measurements for (THF+SDS+CO2+N2) aqueous solution systems in porous media. Fluid Phase Equilibria, 2014, 370, 12-18. | 2.5 | 17 |
| 102 | An improved differential box-counting method to estimate fractal dimensions of gray-level images. Journal of Visual Communication and Image Representation, 2014, 25, 1102-1111. | 2.8 | 107 |
| 103 | Hydrate-based technology for CO2 capture from fossil fuel power plants. Applied Energy, 2014, 116, 26-40. | 10.1 | 118 |
| 104 | Effects of operating mode and pressure on hydrate-based desalination and CO 2 capture in porous media. Applied Energy, 2014, 135, 504-511. | 10.1 | 66 |
| 105 | CO<sub>2</sub> diffusion in n-hexadecane investigated using magnetic resonance imaging and pressure decay measurements. RSC Advances, 2014, 4, 50180-50187. | 3.6 | 9 |
| 106 | CO<sub>2</sub> Hydrate Formation Characteristics in a Water/Brine-Saturated Silica Gel. Industrial & Engineering Chemistry Research, 2014, 53, 10753-10761. | 3.7 | 31 |
| 107 | The effects of porous medium and temperature on exothermic tetrahydrofuran hydrate formation. Journal of Chemical Thermodynamics, 2014, 78, 167-174. | 2.0 | 11 |
| 108 | Dynamic measurements of hydrate based gas separation in cooled silica gel. Journal of Industrial and Engineering Chemistry, 2014, 20, 322-330. | 5.8 | 22 |

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| 109 | Study of the fluid flow characteristics in a porous medium for CO2 geological storage using MRI. Magnetic Resonance Imaging, 2014, 32, 574-584. | 1.8 | 5 |
| 110 | Dynamic Measurements of CO2 Flow in Water Saturated Porous Medium at Low Temperature Using MRI. Energy Procedia, 2013, 37, 1267-1274. | 1.8 | 10 |
| 111 | Measurement of Two Phase Flow in Porous Medium Using High-resolution Magnetic Resonance Imaging. Chinese Journal of Chemical Engineering, 2013, 21, 85-93. | 3.5 | 4 |
| 112 | Effects of additive mixtures (THF/SDS) on carbon dioxide hydrate formation and dissociation in porous media. Chemical Engineering Science, 2013, 90, 69-76. | 3.8 | 63 |
| 113 | Study of Selected Factors Affecting Hydrate-Based Carbon Dioxide Separation from Simulated Fuel Gas in Porous Media. Energy & Fuels, 2013, 27, 3341-3348. | 5.1 | 67 |
| 114 | Effects of Additive Mixture (THF/SDS) on the Thermodynamic and Kinetic Properties of CO<sub>2</sub>/H<sub>2</sub> Hydrate in Porous Media. Industrial & Engineering Chemistry Research, 2013, 52, 4911-4918. | 3.7 | 53 |
| 115 | CO<sub>2</sub> Hydrate Formation and Dissociation in Cooled Porous Media: A Potential Technology for CO<sub>2</sub> Capture and Storage. Environmental Science & Technology, 2013, 47, 9739-9746. | 10.0 | 55 |
| 116 | Magnetic resonance imaging study on near miscible supercritical CO2 flooding in porous media. Physics of Fluids, 2013, 25, . | 4.0 | 28 |
| 117 | An experimental study on CO2/water displacement in porous media using high-resolution Magnetic Resonance Imaging. International Journal of Greenhouse Gas Control, 2012, 10, 501-509. | 4.6 | 39 |
| 118 | MRI measurements of CO2 hydrate dissociation rate in a porous medium. Magnetic Resonance Imaging, 2011, 29, 1007-1013. | 1.8 | 36 |
| 119 | Visualization of CO2 and oil immiscible and miscible flow processes in porous media using NMR micro-imaging. Petroleum Science, 2011, 8, 183-193. | 4.9 | 42 |
| 120 | Pore-scale visualization of gas trapping in porous media by X-ray CT scanning. Flow Measurement and Instrumentation, 2010, 21, 262-267. | 2.0 | 42 |
| 121 | Application of MRI in the Measurement of Two-Phase Flow of Supercritical CO2 and Water in Porous Rocks. Journal of Porous Media, 2009, 12, 143-154. | 1.9 | 43 |
| 122 | Geological storage of carbon dioxide by residual gas and solubility trapping. International Journal of Greenhouse Gas Control, 2008, 2, 58-64. | 4.6 | 168 |
| 123 | Diffusion Properties for CO<sub>2</sub>â€“Brine System under Sequestration-Related Pressures with Consideration of the Swelling Effect and Interfacial Area. Industrial & Engineering Chemistry Research, 0, , . | 3.7 | 7 |