

# Bo Ren

## List of Publications by Year in descending order

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44  
papers

1,040  
citations

471061

17  
h-index

500791

28  
g-index

44  
all docs

44  
docs citations

44  
times ranked

705  
citing authors

#	ARTICLE	IF	CITATIONS
1	Monitoring on CO <sub>2</sub> migration in a tight oil reservoir during CCS-EOR in Jilin Oilfield China. Energy, 2016, 98, 108-121.	4.5	120
2	Performance evaluation and mechanisms study of near-miscible CO <sub>2</sub> flooding in a tight oil reservoir of Jilin Oilfield China. Journal of Natural Gas Science and Engineering, 2015, 27, 1796-1805.	2.1	80
3	CO <sub>2</sub> foam flooding for improved oil recovery: Reservoir simulation models and influencing factors. Journal of Petroleum Science and Engineering, 2015, 133, 838-850.	2.1	63
4	CO <sub>2</sub> EOR and storage in Jilin oilfield China: Monitoring program and preliminary results. Journal of Petroleum Science and Engineering, 2015, 125, 1-12.	2.1	60
5	CO <sub>2</sub> storage with enhanced gas recovery (CSEGR): A review of experimental and numerical studies. Petroleum Science, 2022, 19, 594-607.	2.4	52
6	Reservoir simulation of carbon storage associated with CO <sub>2</sub> EOR in residual oil zones, San Andres formation of West Texas, Permian Basin, USA. Energy, 2019, 167, 391-401.	4.5	51
7	Assessment of miscibility effect for CO <sub>2</sub> flooding EOR in a low permeability reservoir. Journal of Petroleum Science and Engineering, 2016, 145, 328-335.	2.1	50
8	Wettability effects on phase behavior and interfacial tension in shale nanopores. Fuel, 2021, 290, 119983.	3.4	50
9	CO <sub>2</sub> -sensitive foams for mobility control and channeling blocking in enhanced WAG process. Chemical Engineering Research and Design, 2015, 102, 234-243.	2.7	49
10	Geothermal exploitation from depleted high temperature gas reservoirs via recycling supercritical CO <sub>2</sub> : Heat mining rate and salt precipitation effects. Applied Energy, 2016, 183, 837-852.	5.1	48
11	Assessment of CO <sub>2</sub> storage capacity in oil reservoirs associated with large lateral/underlying aquifers: Case studies from China. International Journal of Greenhouse Gas Control, 2011, 5, 1016-1021.	2.3	37
12	A Deep-Learning-Based Approach for Reservoir Production Forecast under Uncertainty. SPE Journal, 2021, 26, 1314-1340.	1.7	37
13	Modeling oil saturation evolution in residual oil zones: Implications for CO <sub>2</sub> EOR and sequestration. Journal of Petroleum Science and Engineering, 2019, 177, 528-539.	2.1	33
14	Influence of pore water on the heat mining performance of supercritical CO <sub>2</sub> injected for geothermal development. Journal of CO <sub>2</sub> Utilization, 2016, 16, 287-300.	3.3	29
15	Laboratory Assessment and Field Pilot of Near Miscible CO <sub>2</sub> Injection for IOR and Storage in a Tight Oil Reservoir of ShengLi Oilfield China. , 2011, , .		27
16	CO <sub>2</sub> storage potential and trapping mechanisms in the H-59 block of Jilin oilfield China. International Journal of Greenhouse Gas Control, 2016, 49, 267-280.	2.3	27
17	Maximizing Local Capillary Trapping During CO <sub>2</sub> Injection. Energy Procedia, 2014, 63, 5562-5576.	1.8	25
18	CO <sub>2</sub> storage safety and leakage monitoring in the CCS demonstration project of Jilin oilfield, China. , 2014, 4, 425-439.		24

#	ARTICLE	IF	CITATIONS
19	Maximizing oil production from water alternating gas (CO <sub>2</sub> ) injection into residual oil zones: The impact of oil saturation and heterogeneity. <i>Energy</i> , 2021, 222, 119915.	4.5	18
20	Economic analysis of CCUS: Accelerated development for CO <sub>2</sub> EOR and storage in residual oil zones under the context of 45Q tax credit. <i>Applied Energy</i> , 2022, 321, 119393.	5.1	17
21	Influence of injection strategies on local capillary trapping during geological carbon sequestration in saline aquifers. <i>Journal of CO<sub>2</sub> Utilization</i> , 2018, 27, 441-449.	3.3	16
22	Local capillary trapping in carbon sequestration: Parametric study and implications for leakage assessment. <i>International Journal of Greenhouse Gas Control</i> , 2018, 78, 135-147.	2.3	16
23	Hydrogen generation in crushed rocks saturated by crude oil and water using microwave heating. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 20793-20802.	3.8	12
24	Oil Saturation in Residual Oil Zones and Its Effect on CO <sub>2</sub> WAG Injection Strategies. , 2019, , .		11
25	Injection of Nitrogen Foam for Improved Oil Recovery in Viscous Oil Reservoirs Offshore Bohai Bay China. , 2016, , .		10
26	Interplay Between Permeability Retardation and Capillary Trapping of Rising Carbon Dioxide in Storage Reservoirs. <i>SPE Journal</i> , 2018, 23, 1866-1879.	1.7	10
27	Identification of potential CO <sub>2</sub> leakage pathways and mechanisms in oil reservoirs using fault tree analysis. , 2020, 10, 331-346.		9
28	A New Method to Design and Optimize the ICD for Horizontal Wells. , 2016, , .		8
29	Monitoring on CO <sub>2</sub> EOR and Storage in a CCS Demonstration Project of Jilin Oilfield China. , 2011, , .		7
30	Fast Modeling of Local Capillary Trapping during CO <sub>2</sub> Injection into a Saline Aquifer. , 2015, , .		7
31	Geothermal Exploitation with Considering CO <sub>2</sub> Mineral Sequestration in High Temperature Depleted Gas Reservoir by CO <sub>2</sub> Injection. , 2015, , .		6
32	Estimating local capillary trap volume capacities using a geologic criterion. <i>International Journal of Greenhouse Gas Control</i> , 2019, 85, 46-57.	2.3	6
33	Potential Assessment of CO <sub>2</sub> Geological Storage in Geothermal Reservoirs Associated with Heat Mining: Case Studies from China. <i>Energy Procedia</i> , 2014, 63, 7651-7662.	1.8	5
34	Experimental Study of CO <sub>2</sub> -Sensitive Chemicals for Enhanced Sealing of Leakage Pathways in CO <sub>2</sub> Geological Storage Process. <i>Energy Procedia</i> , 2014, 63, 4646-4657.	1.8	4
35	Characterization of local capillary trap clusters in storage aquifers. <i>Energy</i> , 2020, 193, 116795.	4.5	4
36	Preliminary Assessment of CO <sub>2</sub> Storage Potential in the H-59 Block in Jilin Oilfield CCS Project. , 2015, , .		3

#	ARTICLE	IF	CITATIONS
37	Quantifying Local Capillary Trapping Storage Capacity Using Geologic Criteria. , 2015, , .		3
38	Buoyant and countercurrent flow of CO2 with capillary dispersion. Journal of Petroleum Science and Engineering, 2020, 195, 107922.	2.1	2
39	Unlock the Potentials to Further Improve CO2 Storage and Utilization with Supercritical CO2 Emulsions When Applying CO2-Philic Surfactants. Sustainable Chemistry, 2021, 2, 127-148.	2.2	2
40	Monitoring on CO2 Migration in a Tight Oil Reservoir during CO2-EOR Process. , 2015, , .		1
41	Economic Assessment of Strategies for CO2-EOR and Storage in Brownfield Residual Oil Zones: A Case Study from the Seminole San Andres Unit. , 2020, , .		1
42	Persistence of Local Capillary Trapping During Caprock Leakage and Forced Imbibition. Energy Procedia, 2014, 63, 5284-5293.	1.8	0
43	Maximizing CO2 Accumulation in Storage Reservoirs: Interplay between Permeability Retardation and Capillary Trapping of Rising CO2. , 2017, , .		0
44	Analysis of Vertical Permeability and Its Influence on CO2 EOR and Storage in a Carbonate Reservoir. , 2021, , .		0