

Changbing Yang

List of Publications by Year in descending order

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58
papers

1,996
citations

257450

24
h-index

254184

43
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59
all docs

59
docs citations

59
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactive chemical transport simulations of geologic carbon sequestration: Methods and applications. <i>Earth-Science Reviews</i> , 2020, 208, 103265.	9.1	86
2	Performance comparison of physical process-based and data-driven models: a case study on the Edwards Aquifer, USA. <i>Hydrogeology Journal</i> , 2020, 28, 2025-2037.	2.1	8
3	Probabilistic evaluation of above-zone pressure and geochemical monitoring for leakage detection at geological carbon sequestration site. <i>Computers and Geosciences</i> , 2019, 125, 1-8.	4.2	6
4	Heterogeneity in mineral composition and its impact on the sealing capacity of caprock for a CO ₂ geological storage site. <i>Computers and Geosciences</i> , 2019, 125, 30-42.	4.2	15
5	Assessing groundwater monitoring strategy for leakage detection in the Texas Gulf Coast Aquifer (USA) at a hypothetical CO ₂ storage site: a reactive transport modeling approach. <i>Hydrogeology Journal</i> , 2019, 27, 553-566.	2.1	5
6	Dynamic projection of ecological risk in the Manas River basin based on terrain gradients. <i>Science of the Total Environment</i> , 2019, 653, 283-293.	8.0	81
7	Hydrological simulation and uncertainty analysis using the improved TOPMODEL in the arid Manas River basin, China. <i>Scientific Reports</i> , 2018, 8, 452.	3.3	34
8	Multicomponent competitive monovalent cation exchange in hierarchical porous media with multimodal reactive mineral facies. <i>Stochastic Environmental Research and Risk Assessment</i> , 2018, 32, 295-310.	4.0	13
9	Thermochemical sulphate reduction can improve carbonate petroleum reservoir quality. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 223, 127-140.	3.9	41
10	Heterogeneity-assisted carbon dioxide storage in marine sediments. <i>Applied Energy</i> , 2018, 225, 876-883.	10.1	89
11	Quantitative assessment of soil CO ₂ concentration and stable carbon isotope for leakage detection at geological carbon sequestration sites. , 2017, 7, 680-691.		5
12	Gas source attribution techniques for assessing leakage at geologic CO ₂ storage sites: Evaluating a CO ₂ and CH ₄ soil gas anomaly at the Cranfield CO ₂ -EOR site. <i>Chemical Geology</i> , 2017, 454, 93-104.	3.3	15
13	CO ₂ Sequestration and Enhanced Oil Recovery at Depleted Oil/Gas Reservoirs. <i>Energy Procedia</i> , 2017, 114, 6957-6967.	1.8	23
14	Model-based Assessment of the Site-specific Cost of Monitoring. <i>Energy Procedia</i> , 2017, 114, 5316-5319.	1.8	2
15	Identification of potential impacts of climate change and anthropogenic activities on streamflow alterations in the Tarim River Basin, China. <i>Scientific Reports</i> , 2017, 7, 8254.	3.3	59
16	Injectivity Evaluation for Offshore CO ₂ Sequestration in Marine Sediments. <i>Energy Procedia</i> , 2017, 114, 2921-2932.	1.8	10
17	Towards a Method for Leakage Quantification and Remediation Monitoring in the Near-surface at Terrestrial CO ₂ Geologic Storage Sites. <i>Energy Procedia</i> , 2017, 114, 3855-3862.	1.8	3
18	Study on the characteristics of future precipitation in response to external changes over arid and humid basins. <i>Scientific Reports</i> , 2017, 7, 15148.	3.3	17

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19	Soil gas dynamics monitoring at a CO ₂ -EOR site for leakage detection. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2017, 3, 351-364.	2.9	8
20	Quantitative Assessment of Hydrological Alteration Caused by Irrigation Projects in the Tarim River basin, China. <i>Scientific Reports</i> , 2017, 7, 4291.	3.3	34
21	CO ₂ Accounting and Risk Analysis for CO ₂ Sequestration at Enhanced Oil Recovery Sites. <i>Environmental Science & Technology</i> , 2016, 50, 7546-7554.	10.0	228
22	Probabilistic assessment of shale gas production and water demand at Xiuwu Basin in China. <i>Applied Energy</i> , 2016, 180, 185-195.	10.1	33
23	Reactive Transport Modeling of the Enhancement of Density-Driven CO ₂ Convective Mixing in Carbonate Aquifers and its Potential Implication on Geological Carbon Sequestration. <i>Scientific Reports</i> , 2016, 6, 24768.	3.3	18
24	Geochemical impact of O ₂ impurity in CO ₂ stream on carbonate carbon-storage reservoirs. <i>International Journal of Greenhouse Gas Control</i> , 2016, 47, 159-175.	4.6	19
25	Semi-analytical approach to reactive transport of CO ₂ leakage into aquifers at carbon sequestration sites. , 2015, 5, 786-801.		13
26	Integrated Framework for Assessing Impacts of CO ₂ Leakage on Groundwater Quality and Monitoring-Network Efficiency: Case Study at a CO ₂ Enhanced Oil Recovery Site. <i>Environmental Science & Technology</i> , 2015, 49, 8887-8898.	10.0	35
27	Geochemical sensitivity to CO ₂ leakage: detection in potable aquifers at carbon sequestration sites. , 2014, 4, 384-399.		30
28	Field Demonstration of CO ₂ Leakage Detection in Potable Aquifers with a Pulselike CO ₂ -Release Test. <i>Environmental Science & Technology</i> , 2014, 48, 14031-14040.	10.0	23
29	Monitoring dissolved CO ₂ in groundwater for CO ₂ leakage detection in a shallow aquifer. <i>Energy Procedia</i> , 2014, 63, 4209-4215.	1.8	2
30	Geochemical impact of oxygen on siliciclastic carbon storage reservoirs. <i>International Journal of Greenhouse Gas Control</i> , 2014, 21, 214-231.	4.6	21
31	Regional CO ₂ sequestration capacity assessment for the coastal and offshore Texas Miocene interval. , 2014, 4, 53-65.		12
32	Inverse Modeling of Water-Rock-CO ₂ Batch Experiments: Potential Impacts on Groundwater Resources at Carbon Sequestration Sites. <i>Environmental Science & Technology</i> , 2014, 48, 2798-2806.	10.0	69
33	Process-based soil gas leakage assessment at the Kerr Farm: Comparison of results to leakage proxies at ZERT and Mt. Etna. <i>International Journal of Greenhouse Gas Control</i> , 2014, 30, 42-57.	4.6	32
34	Sources and distribution of isoprenoid glycerol dialkyl glycerol tetraethers (GDGTs) in sediments from the east coastal sea of China: Application of GDGT-based paleothermometry to a shallow marginal sea. <i>Organic Geochemistry</i> , 2014, 75, 24-35.	1.8	40
35	Regional Assessment of CO ₂ Solubility Trapping Potential: A Case Study of the Coastal and Offshore Texas Miocene Interval. <i>Environmental Science & Technology</i> , 2014, 48, 8275-8282.	10.0	17
36	Laboratory Batch Experiments and Geochemical Modelling of Water-rock-super Critical CO ₂ Reactions in Gulf of Mexico Miocene Rocks: Implications for Future CCS Projects. <i>Energy Procedia</i> , 2014, 63, 5512-5521.	1.8	2

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37	Single-well push-pull test for assessing potential impacts of CO ₂ leakage on groundwater quality in a shallow Gulf Coast aquifer in Cranfield, Mississippi. <i>International Journal of Greenhouse Gas Control</i> , 2013, 18, 375-387.	4.6	70
38	Assessment of Alleged CO ₂ Leakage at the Kerr Farm using a Simple Process-based Soil Gas Technique: Implications for Carbon Capture, Utilization, and Storage (CCUS) Monitoring. <i>Energy Procedia</i> , 2013, 37, 4242-4248.	1.8	36
39	Potential Subsurface Impacts of CO ₂ Stream Impurities on Geologic Carbon Storage. <i>Energy Procedia</i> , 2013, 37, 4552-4559.	1.8	19
40	Potential Impacts of CO ₂ Leakage on Groundwater Chemistry from Laboratory Batch Experiments and Field Push-pull Tests. <i>Environmental Science & Technology</i> , 2013, 47, 130905130052009.	10.0	14
41	Near-Surface Monitoring of Large-Volume CO ₂ Injection at Cranfield: Early Field Test of SECARB Phase III. <i>SPE Journal</i> , 2013, 18, 486-494.	3.1	20
42	Inverse method for simultaneous determination of soil water flux density and thermal properties with a penta-needle heat pulse probe. <i>Water Resources Research</i> , 2013, 49, 5851-5864.	4.2	18
43	Large Volume of CO ₂ Injection at the Cranfield, Early Field Test of the SECARB Phase III: Near-Surface Monitoring. , 2012, , .		3
44	Complex fluid flow revealed by monitoring CO ₂ injection in a fluvial formation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
45	Process-based approach to CO ₂ leakage detection by vadose zone gas monitoring at geologic CO ₂ storage sites. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	128
46	Monitoring a large volume CO ₂ injection: Year two results from SECARB project at Denbury's Cranfield, Mississippi, USA. <i>Energy Procedia</i> , 2011, 4, 3478-3485.	1.8	84
47	INV-WATFLX, a code for simultaneous estimation of soil properties and planar vector water flux from fully or partly functioning needles of a penta-needle heat-pulse probe. <i>Computers and Geosciences</i> , 2009, 35, 2250-2258.	4.2	16
48	A sequential partly iterative approach for multicomponent reactive transport with CORE2D. <i>Computational Geosciences</i> , 2009, 13, 301-316.	2.4	48
49	Numerical evaluation of multicomponent cation exchange reactive transport in physically and geochemically heterogeneous porous media. <i>Computational Geosciences</i> , 2009, 13, 391-404.	2.4	12
50	A Subgrid-Scale Stabilized Finite Element Method for Multicomponent Reactive Transport through Porous Media. <i>Transport in Porous Media</i> , 2009, 78, 101-126.	2.6	11
51	Numerical modeling of the development of a preferentially leached layer on feldspar surfaces. <i>Environmental Geology</i> , 2009, 57, 1639.	1.2	9
52	Assessing risk to fresh water resources from long term CO ₂ injection-laboratory and field studies. <i>Energy Procedia</i> , 2009, 1, 1957-1964.	1.8	86
53	A coupled non-isothermal reactive transport model for long-term geochemical evolution of a HLW repository in clay. <i>Environmental Geology</i> , 2008, 53, 1627-1638.	1.2	53
54	Inverse microbial and geochemical reactive transport models in porous media. <i>Physics and Chemistry of the Earth</i> , 2008, 33, 1026-1034.	2.9	32

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55	Modelling geochemical and microbial consumption of dissolved oxygen after backfilling a high level radioactive waste repository. <i>Journal of Contaminant Hydrology</i> , 2007, 93, 130-148.	3.3	49
56	A semi-analytical solution for linearized multicomponent cation exchange reactive transport in groundwater. <i>Transport in Porous Media</i> , 2007, 69, 67-88.	2.6	10
57	Stochastic analysis of transport and multicomponent competitive monovalent cation exchange in aquifers. , 2006, 2, 102.		32
58	Biogeochemical Reactive Transport Model of the Redox Zone Experiment of the Åspå Hard Rock Laboratory in Sweden. <i>Nuclear Technology</i> , 2004, 148, 151-165.	1.2	34