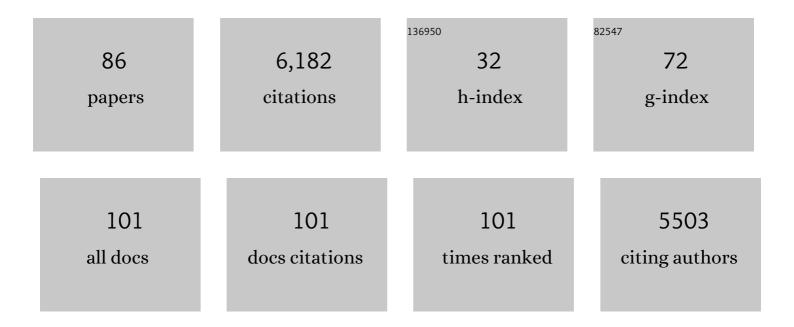
## Samuel C M Krevor

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	European carbon storage resource requirements of climate change mitigation targets. International Journal of Greenhouse Gas Control, 2022, 114, 103568.	4.6	3
2	Determination of the spatial distribution of wetting in the pore networks of rocks. Journal of Colloid and Interface Science, 2022, 613, 786-795.	9.4	17
3	The Effect of Viscosity Ratio and Peclet Number on Miscible Viscous Fingering in a Hele-Shaw Cell: A Combined Numerical and Experimental Study. Transport in Porous Media, 2022, 143, 23-45.	2.6	4
4	An Estimate of the Amount of Geological CO <sub>2</sub> Storage over the Period of 1996–2020. Environmental Science and Technology Letters, 2022, 9, 693-698.	8.7	14
5	Red Noise in Steady tate Multiphase Flow in Porous Media. Water Resources Research, 2022, 58, .	4.2	7
6	Pore-Scale X-ray Imaging of Wetting Alteration and Oil Redistribution during Low-Salinity Flooding of Berea Sandstone. Energy & Fuels, 2021, 35, 1197-1207.	5.1	12
7	A tool for first order estimates and optimisation of dynamic storage resource capacity in saline aquifers. International Journal of Greenhouse Gas Control, 2021, 106, 103258.	4.6	17
8	The development of intermittent multiphase fluid flow pathways through a porous rock. Advances in Water Resources, 2021, 150, 103868.	3.8	16
9	Observations of the Impacts of Millimeter―to Centimeter cale Heterogeneities on Relative Permeability and Trapping in Carbonate Rocks. Water Resources Research, 2021, 57, e2020WR028597.	4.2	11
10	Storage of Carbon Dioxide in Saline Aquifers: Physicochemical Processes, Key Constraints, and Scale-Up Potential. Annual Review of Chemical and Biomolecular Engineering, 2021, 12, 471-494.	6.8	34
11	Simulating Core Floods in Heterogeneous Sandstone and Carbonate Rocks. Water Resources Research, 2021, 57, e2021WR030581.	4.2	7
12	The impact of heterogeneity on the capillary trapping of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.svg"&gt;<mml:msub><mml:mtext>CO</mml:mtext><mml:mn>2</mml:mn></mml:msub> in the Captain Sandstone International Journal of Greenhouse Gas Control, 2021, 112, 103511.</mml:math 	4.6	7
13	3D Visualization of Film Flow During Three-Phase Displacement in Water-Wet Rocks via Microtomography Method. , 2021, , .		1
14	The Impact of Mineral Dissolution on Drainage Relative Permeability and Residual Trapping in Two Carbonate Rocks. Transport in Porous Media, 2020, 131, 363-380.	2.6	7
15	The Sensitivity of Estimates of Multiphase Fluid and Solid Properties of Porous Rocks to Image Processing. Transport in Porous Media, 2020, 131, 985-1005.	2.6	43
16	Relationship between wetting and capillary pressure in a crude oil/brine/rock system: From nano-scale to core-scale. Journal of Colloid and Interface Science, 2020, 562, 159-169.	9.4	62
17	Realâ€Time Imaging Reveals Distinct Poreâ€Scale Dynamics During Transient and Equilibrium Subsurface Multiphase Flow. Water Resources Research, 2020, 56, e2020WR028287.	4.2	22
18	Smallâ€5cale Capillary Heterogeneity Linked to Rapid Plume Migration During CO <sub>2</sub> Storage. Geophysical Research Letters, 2020, 47, e2020GL088616.	4.0	45

#	Article	IF	CITATIONS
19	CO2-EOR and Storage Potentials in Depleted Reservoirs in the Norwegian Continental Shelf NCS. , 2020, , .		4
20	Representative Elementary Volumes, Hysteresis, and Heterogeneity in Multiphase Flow From the Pore to Continuum Scale. Water Resources Research, 2020, 56, e2019WR026396.	4.2	43
21	Cut, overlap and locate: a deep learning approach for the 3D localization of particles in astigmatic optical setups. Experiments in Fluids, 2020, 61, 1.	2.4	16
22	Pore Network Model Predictions of Darcyâ€ <b>s</b> cale Multiphase Flow Heterogeneity Validated by Experiments. Water Resources Research, 2020, 56, e2019WR026708.	4.2	18
23	Experimental study of pH effect on uranium (UVI) particle formation and transport through quartz sand in alkaline 0.1â€ <sup>-</sup> M sodium chloride solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 592, 124375.	4.7	10
24	Fluid Surface Coverage Showing the Controls of Rock Mineralogy on the Wetting State. Geophysical Research Letters, 2020, 47, e2019GL086380.	4.0	32
25	Global geologic carbon storage requirements of climate change mitigation scenarios. Energy and Environmental Science, 2020, 13, 1561-1567.	30.8	57
26	Intermittent fluid connectivity during two-phase flow in a heterogeneous carbonate rock. Physical Review E, 2019, 100, 043103.	2.1	33
27	Mechanisms controlling fluid breakup and reconnection during two-phase flow in porous media. Physical Review E, 2019, 100, 043115.	2.1	19
28	The Error in Using Superposition to Estimate Pressure During Multisite Subsurface CO <sub>2</sub> Storage. Geophysical Research Letters, 2019, 46, 6525-6533.	4.0	8
29	Minimal surfaces in porous media: Pore-scale imaging of multiphase flow in an altered-wettability Bentheimer sandstone. Physical Review E, 2019, 99, 063105.	2.1	98
30	Characterization of Hysteretic Multiphase Flow from the MM to M Scale in Heterogeneous Rocks. E3S Web of Conferences, 2019, 89, 02001.	0.5	8
31	Rock-buffered recrystallization of Marion Plateau dolomites at low temperature evidenced by clumped isotope thermometry and X-ray diffraction analysis. Geochimica Et Cosmochimica Acta, 2019, 252, 190-212.	3.9	39
32	Laboratory Studies to Understand the Controls on Flow and Transport for CO2 Storage. , 2019, , 145-180.		6
33	Calibration of astigmatic particle tracking velocimetry based on generalized Gaussian feature extraction. Advances in Water Resources, 2019, 124, 1-8.	3.8	12
34	An Introduction to Subsurface CO2 Storage. RSC Energy and Environment Series, 2019, , 238-295.	0.5	7
35	Multiphase Flow Characteristics of Heterogeneous Rocks From <scp>CO</scp> <sub>2</sub> Storage Reservoirs in the United Kingdom. Water Resources Research, 2018, 54, 729-745.	4.2	48
36	Characterizing Drainage Multiphase Flow in Heterogeneous Sandstones. Water Resources Research, 2018, 54, 3139-3161.	4.2	77

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37	Carbon capture and storage (CCS): the way forward. Energy and Environmental Science, 2018, 11, 1062-1176.	30.8	2,378
38	The impact of time-varying CO2 injection rate on large scale storage in the UK Bunter Sandstone. International Journal of Greenhouse Gas Control, 2018, 68, 77-85.	4.6	18
39	High Resolution Modelling And Steady-State Upscaling Of Large Scale Gravity Currents In Heterogeneous Sandstone Reservoirs. , 2018, , .		1
40	Computational Tools for Calculating log β Values of Geochemically Relevant Uranium Organometallic Complexes. Journal of Physical Chemistry A, 2018, 122, 8007-8019.	2.5	10
41	Imaging and Measurement of Poreâ€6cale Interfacial Curvature to Determine Capillary Pressure Simultaneously With Relative Permeability. Water Resources Research, 2018, 54, 7046-7060.	4.2	87
42	An assessment of CCS costs, barriers and potential. Energy Strategy Reviews, 2018, 22, 61-81.	7.3	284
43	Sensitivity Analysis of the Dynamic CO2 Storage Capacity Estimate for the Bunter Sandstone of the UK Southern North Sea. Energy Procedia, 2017, 114, 4564-4570.	1.8	8
44	The impact of energy systems demands on pressure limited CO 2 storage in the Bunter Sandstone of the UK Southern North Sea. International Journal of Greenhouse Gas Control, 2017, 65, 128-136.	4.6	13
45	Can Carbon Capture and Storage Unlock â€~Unburnable Carbon'?. Energy Procedia, 2017, 114, 7504-7515.	1.8	9
46	Capillary Limited Flow Behavior of CO2 in Target Reservoirs in the UK. Energy Procedia, 2017, 114, 4518-4523.	1.8	3
47	Pore-scale Analysis of In Situ Contact Angle Measurements in Mixed-wet Rocks: Applications to Carbon Utilization in Oil Fields. Energy Procedia, 2017, 114, 6919-6927.	1.8	2
48	Dynamic fluid connectivity during steady-state multiphase flow in a sandstone. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8187-8192.	7.1	121
49	Observations of the impact of rock heterogeneity on solute spreading and mixing. Water Resources Research, 2017, 53, 4624-4642.	4.2	32
50	CO <sub>2</sub> enhanced oil recovery: a catalyst for gigatonne-scale carbon capture and storage deployment?. Energy and Environmental Science, 2017, 10, 2594-2608.	30.8	62
51	Analysis of Viscous Crossflow in Polymer Flooding. , 2017, , .		4
52	Optimising Brine Production for Pressure Management During CO2 Sequestration in the Bunter Sandstone of the UK Southern North Sea. , 2017, , .		1
53	Remaining Saturations of Supercritical CO2 in Mixed-wet Carbonates for Carbon Utilization in Oil Fields: Core to Pore Scales Observations and Field Scale Implications. , 2016, , .		0
54	Capillary Trapping of CO <sub>2</sub> in Oil Reservoirs: Observations in a Mixed-Wet Carbonate Rock. Environmental Science & Technology, 2016, 50, 2727-2734.	10.0	87

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55	The Impact of Crude Oil Induced Wettability Alteration on Remaining Saturations of CO2 in Carbonates Reservoirs: A Core Flood Method. , 2016, , .		1
56	Experimental and Numerical Studies of First Contact Miscible Injection in a Quarter Five Spot Pattern. , 2016, , .		2
57	Modelling Basin-scale CO2 Storage in the Bunter Sandstone of the UK Southern North Sea. , 2016, , .		0
58	A Novel Approach for Waterflood Management Optimisation using Streamline Technology. , 2016, , .		0
59	Capillarity and wetting of carbon dioxide and brine during drainage in <scp>B</scp> erea sandstone at reservoir conditions. Water Resources Research, 2015, 51, 7895-7914.	4.2	68
60	Characterizing flow behavior for gas injection: Relative permeability of CO <sub>2</sub> â€brine and N <sub>2</sub> â€water in heterogeneous rocks. Water Resources Research, 2015, 51, 9464-9489.	4.2	95
61	The impact of reservoir conditions on the residual trapping of carbon dioxide in <scp>B</scp> erea sandstone. Water Resources Research, 2015, 51, 2009-2029.	4.2	82
62	Pore-scale heterogeneity in the mineral distribution and reactive surface area of porous rocks. Chemical Geology, 2015, 411, 260-273.	3.3	98
63	Capillary trapping for geologic carbon dioxide storage – From pore scale physics to field scale implications. International Journal of Greenhouse Gas Control, 2015, 40, 221-237.	4.6	329
64	Effective Wettability Measurements of CO2-brine-Sandstone System at Different Reservoir Conditions. Energy Procedia, 2014, 63, 5420-5426.	1.8	13
65	A Study of Residual Carbon Dioxide Trapping in Sandstone. Energy Procedia, 2014, 63, 5522-5529.	1.8	17
66	Pore scale heterogeneity in the mineral distribution and surface area of Berea sandstone. Energy Procedia, 2014, 63, 3582-3588.	1.8	22
67	Impact of Reservoir Conditions on CO2-brine Relative Permeability in Sandstones. Energy Procedia, 2014, 63, 5577-5585.	1.8	18
68	The Impact of Reservoir Conditions on the Measurement of Multiphase Flow Properties for CO2-brine Systems. , 2014, , .		0
69	Advanced Reservoir Characterization for CO2 Storage. , 2014, , .		3
70	A Procedure for the Accurate Determination of Sub-Core Scale Permeability Distributions with Error Quantification. Transport in Porous Media, 2013, 98, 565-588.	2.6	67
71	Capillary Heterogeneity in Sandstone Rocks During CO2/Water Core-flooding Experiments. Energy Procedia, 2013, 37, 5473-5479.	1.8	24
72	Measurement of the Multiphase Flow Properties of the CO2 Brine System for Carbon Sequestration. Energy Procedia, 2013, 37, 4499-4503.	1.8	6

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73	Assessing the Potential of Mineral Carbonation with Industrial Alkalinity Sources in the U.S. Energy Procedia, 2013, 37, 5858-5869.	1.8	7
74	Impact of alkalinity sources on the life-cycle energy efficiency of mineral carbonation technologies. Energy and Environmental Science, 2012, 5, 8631.	30.8	64
75	Capillary pressure and heterogeneity for the CO2/water system in sandstone rocks at reservoir conditions. Advances in Water Resources, 2012, 38, 48-59.	3.8	248
76	Relative permeability and trapping of CO <sub>2</sub> and water in sandstone rocks at reservoir conditions. Water Resources Research, 2012, 48, .	4.2	444
77	An Experimental Study of CO2 Exsolution and Relative Permeability Measurements During CO2 Saturated Water Depressurization. Transport in Porous Media, 2012, 91, 459-478.	2.6	82
78	Real-Time Tracking of CO2Injected into a Subsurface Coal Fire through High-Frequency Measurements of the13CO2Signature. Environmental Science & Technology, 2011, 45, 4179-4186.	10.0	14
79	Capillary heterogeneity trapping of CO <sub>2</sub> in a sandstone rock at reservoir conditions. Geophysical Research Letters, 2011, 38, .	4.0	204
80	Enhancing serpentine dissolution kinetics for mineral carbon dioxide sequestration. International Journal of Greenhouse Gas Control, 2011, 5, 1073-1080.	4.6	99
81	Laboratory experiments on core-scale behavior of CO2 exolved from CO2 -saturated brine. Energy Procedia, 2011, 4, 3210-3215.	1.8	14
82	Rapid detection and characterization of surface CO2 leakage through the real-time measurement of Î13Î13 C signatures in CO2 flux from the ground. International Journal of Greenhouse Gas Control, 2010, 4, 811-815.	4.6	53
83	Enhancing process kinetics for mineral carbon sequestration. Energy Procedia, 2009, 1, 4867-4871.	1.8	68
84	Delineation of Magnesium-rich Ultramafic Rocks Available for Mineral Carbon Sequestration in the United States. Energy Procedia, 2009, 1, 4915-4920.	1.8	6
85	Validation of a population balance model for olivine dissolution. Chemical Engineering Science, 2007, 62, 6412-6422.	3.8	44
86	The impacts of heterogeneity on CO2 capillary trapping within the Captain Sandstone - a core to field scale study SSRN Electronic Journal, 0, , .	0.4	1