Peter Frykman

List of Publications by Year in descending order

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57 papers	951 citations	566801 15 h-index	476904 29 g-index
58 all docs	58 docs citations	58 times ranked	803 citing authors

#	Article	IF	Citations
1	Baseline characterization of the CO2SINK geological storage site at Ketzin, Germany. Environmental Geosciences, 2006, 13, 145-161.	0.6	219
2	Spatial variability in petrophysical properties in Upper Maastrichtian chalk outcrops at Stevns Klint, Denmark. Marine and Petroleum Geology, 2001, 18, 1041-1062.	1.5	72
3	Geological modelling of the Triassic Stuttgart Formation at the Ketzin CO2 storage site, Germany. International Journal of Greenhouse Gas Control, 2013, 19, 756-774.	2.3	58
4	Modelling of CO2 arrival time at Ketzin â€“ Part I. International Journal of Greenhouse Gas Control, 2010, 4, 1007-1015.	2.3	55
5	High-Order Moments of the Phase Function for Real and Reconstructed Model Porous Media: A Comparison. Journal of Colloid and Interface Science, 1993, 156, 478-490.	5.0	47
6	Reservoir geomechanics for assessing containment in CO2 storage: A case study at Ketzin, Germany. Energy Procedia, 2011, 4, 3298-3305.	1.8	40
7	Coupled Dynamic Flow and Geomechanical Simulations for an Integrated Assessment of CO2 Storage Impacts in a Saline Aquifer. Energy Procedia, 2014, 63, 2879-2893.	1.8	36
8	Permeability, compressibility and porosity of Jurassic shale from the Norwegianâ€“Danish Basin. Petroleum Geoscience, 2014, 20, 257-281.	0.9	35
9	Novel experimental/numerical approach to evaluate the permeability of cement-caprock systems. International Journal of Greenhouse Gas Control, 2016, 45, 86-93.	2.3	32
10	Shale Creep as Leakage Healing Mechanism in CO2 Sequestration. Energy Procedia, 2017, 114, 3096-3112.	1.8	25
11	The history of hydrocarbon filling of Danish chalk fields. Petroleum Geology Conference Proceedings, 2005, 6, 1331-1345.	0.7	24
12	Pre-drilling assessments of average porosity and permeability in the geothermal reservoirs of the Danish area. Geothermal Energy, 2016, 4, .	0.9	24
13	Caprock compressibility and permeability and the consequences for pressure development in CO2 storage sites. International Journal of Greenhouse Gas Control, 2014, 22, 139-153.	2.3	22
14	Geological modeling and dynamic flow analysis as initial site investigation for large-scale CO2 injection at the Vedsted structure, NW Denmark. Energy Procedia, 2009, 1, 2975-2982.	1.8	16
15	Geochemical impacts of CO2 storage in saline aquifers with various mineralogyâ€”Results from laboratory experiments and reactive geochemical modelling. Energy Procedia, 2011, 4, 4724-4731.	1.8	16
16	Geostatistical Scaling Laws Applied to Core and Log Data. , 1999, , .		15
17	Mineral changes in CO2 experiments â€” Examples from Danish onshore saline aquifers.. Energy Procedia, 2011, 4, 4495-4502.	1.8	15
18	Subaerial exposure and cement stratigraphy of a Silurian bioherm in the Klinteberg Beds, Gotland, Sweden. Gff, 1985, 107, 77-88.	0.4	14

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19	Evaluation of CO2 Storage Potential in Skagerrak. Energy Procedia, 2013, 37, 4863-4871.	1.8	14
20	Cement Self-Healing as a Result of CO2 Leakage. Energy Procedia, 2016, 86, 342-351.	1.8	14
21	Anisotropy in pore networks analyzed with 2-D autocorrelation (variomaps). Computers and Geosciences, 1993, 19, 887-930.	2.0	12
22	Geostatistical Simulation of Fracture Networks. Quantitative Geology and Geostatistics, 2005, , 295-304.	0.1	11
23	Closing of Micro-cavities in Well Cement upon Exposure to CO2 Brine. Energy Procedia, 2017, 114, 5100-5108.	1.8	11
24	Modeling of Initial Saturation Distributions in Oil/Water Reservoirs in Imbibition Equilibrium. , 2005, , .		10
25	Trapping of buoyancy-driven CO2 during imbibition. International Journal of Greenhouse Gas Control, 2018, 78, 48-61.	2.3	9
26	Modifications of chalk microporosity geometry during burial â€“ An application of mathematical morphology. Marine and Petroleum Geology, 2019, 100, 212-224.	1.5	9
27	Coupled Hydro-Mechanical Simulations of CO₂Storage Supported by Pressure Management Demonstrate Synergy Benefits from Simultaneous Formation Fluid Extraction. Oil and Gas Science and Technology, 2015, 70, 599-613.	1.4	8
28	Estimation of shape factors in fractured reservoirs. Petroleum Geology Conference Proceedings, 2005, 6, 545-550.	0.7	7
29	Trapping Effects of Small Scale Sedimentary Heterogeneities. Energy Procedia, 2013, 37, 5352-5359.	1.8	7
30	A visualbasic program for histogram and variogram scaling. Computers and Geosciences, 2002, 28, 21-31.	2.0	6
31	Key Site Abandonment Steps in CO2 Storage. Energy Procedia, 2013, 37, 4731-4740.	1.8	6
32	Modeling of the pressure propagation due to CO 2 injection and the effect of fault permeability in a case study of the Vedsted structure, Northern Denmark. International Journal of Greenhouse Gas Control, 2014, 28, 1-10.	2.3	6
33	Dissolution Trapping - Convection Enhancement Limited by Geology. Energy Procedia, 2014, 63, 5467-5478.	1.8	6
34	Mechanical Effect of CO2 Flooding of a Sandstone Specimen. Energy Procedia, 2016, 86, 361-370.	1.8	6
35	Mapping of the CO2 storage potential in the Nordic region. Geological Survey of Denmark and Greenland Bulletin, 0, 35, 87-90.	2.0	6
36	Dynamic simulation and history matching at Ketzin (CO2SINK). Energy Procedia, 2011, 4, 4433-4441.	1.8	5

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37	Geological modelling for site evaluation at the Vedsted structure, NW Denmark. Energy Procedia, 2011, 4, 4711-4718.	1.8	5
38	CCS demo Denmark: The Vedsted case. Energy Procedia, 2011, 4, 4704-4710.	1.8	4
39	Upscaling of outcrop information for improved reservoir modelling â€“ exemplified by a case study on chalk. Petroleum Geoscience, 2021, 27, .	0.9	4
40	The potential for large-scale, subsurface geological CO2 storage in Denmark. Geological Survey of Denmark and Greenland Bulletin, 0, 17, 13-16.	2.0	4
41	Regional Model Development and Study of Pressure Propagation. Energy Procedia, 2012, 23, 495-503.	1.8	3
42	Synergy Benefits in Combining CCS and Geothermal Energy Production. Energy Procedia, 2013, 37, 2622-2628.	1.8	3
43	Outcrop scale reservoir characterisation and flow modelling of CO 2 injection in the tsunami and the barrier islandâ€"Tidal inlet reservoirs of the Camarillas Fm. (Galve sub-basin, Teruel, NE Spain). International Journal of Greenhouse Gas Control, 2016, 55, 60-72.	2.3	3
44	How to Characterize a Potential Site for CO₂Storage with Sparse Data Coverage â€“ a Danish Onshore Site Case. Oil and Gas Science and Technology, 2015, 70, 587-598.	1.4	3
45	Lower Cretaceous (Hauterivianâ€“Aptian) pelagic carbonates in the Danish Basin: new data from the Vinding-1 well, central Jylland, Denmark.. Bulletin of the Geological Society of Denmark, 0, 71, 7-29.	1.1	2
46	ULTimateCO2: A FP7 European Project Dedicated to the Understanding of the Long Term Fate of Geologically Stored CO2. Energy Procedia, 2013, 37, 4655-4664.	1.8	1
47	Facies and petrophysical modelling of a thick lower cretaceous tsunami deposit in E Spain: Up-scaling from sample to outcrop scales. Sedimentary Geology, 2016, 343, 38-55.	1.0	1
48	Scaling Relations and Sampling Volume for Seismic Data. Quantitative Geology and Geostatistics, 2005, , 731-736.	0.1	0
49	Geostatistical Downscaling and Simulation of Fine-Resolution NDVI Data from Satellite Images. , 2007, , .		0
50	Determination of Free Water Levels in Low-Permeability Chalk Reservoirs From Logged Saturations. , 2007, , .		0
51	Geology and the Effects on Filling Pattern in CO2 Storage Sites. , 2012, , .		0
52	Impact on Storage Complex Delineation from Injection-induced Pressure Propagation. , 2014, , .		0
53	Quantifying Porosity, Compressibility and Permeability in Shale. , 2014, , .		0
54	Correlation structure of porosity and permeability in on- and offshore chalk. , 1994, , .		0

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55	A multidisciplinary study of a geothermal reservoir below Thisted, Denmark. Geological Survey of Denmark and Greenland Bulletin, 0, 33, 51-54.	2.0	0
56	Geostatistical Scaling Laws Applied to Core and Log Data. , 0, , .		0
57	Modeling of Initial Saturation Distributions in Oil/Water Reservoirs in Imbibition Equilibrium. , 0, , .		0