Andrzej Falenty

List of Publications by Year
in descending order

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Version: 2024-02-01

24	1,906	394421 19	610901 24
papers	citations	h-index	g-index

24	24	24	1616
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Formation and properties of ice XVI obtained by emptying a type sII clathrate hydrate. Nature, 2014, 516, 231-233.	27.8	265
2	Microstructural evolution of gas hydrates in sedimentary matrices observed with synchrotron <scp>X</scp>â€ray computed tomographic microscopy. Geochemistry, Geophysics, Geosystems, 2015, 16, 1711-1722.	2.5	208
3	Extent and relevance of stacking disorder in â€œice I _c â€• Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 21259-21264.	7.1	207
4	â€œSelf-Preservationâ€•of CO₂Gas Hydratesâ€”Surface Microstructure and Ice Perfection. Journal of Physical Chemistry B, 2009, 113, 15975-15988.	2.6	177
5	Synchrotron X-ray computed microtomography study on gas hydrate decomposition in a sedimentary matrix. Geochemistry, Geophysics, Geosystems, 2016, 17, 3717-3732.	2.5	173
6	Methane Hydrate Pellet Transport Using the Self-Preservation Effect: A Techno-Economic Analysis. Energies, 2012, 5, 2499-2523.	3.1	133
7	Kinetics of CO₂-Hydrate Formation from Ice Powders: Data Summary and Modeling Extended to Low Temperatures. Journal of Physical Chemistry C, 2013, 117, 8443-8457.	3.1	93
8	â€œSelf-Preservationâ€•of CH₄ Hydrates for Gas Transport Technology: Pressureâ€“Temperature Dependence and Ice Microstructures. Energy & Fuels, 2014, 28, 6275-6283.	5.1	91
9	Fluid Composition and Kinetics of the in Situ Replacement in CH₄â€“CO₂ Hydrate System. Journal of Physical Chemistry C, 2016, 120, 27159-27172.	3.1	87
10	Lattice constants and expansivities of gas hydrates from 10 K up to the stability limit. Journal of Chemical Physics, 2016, 144, 054301.	3.0	64
11	Kinetics of CO₂ Hydrate Formation from Water Frost at Low Temperatures: Experimental Results and Theoretical Model. Journal of Physical Chemistry C, 2011, 115, 4022-4032.	3.1	63
12	Diffusion Model for Gas Replacement in an Isostructural CH₄â€“CO₂ Hydrate System. Journal of Physical Chemistry C, 2017, 121, 17603-17616.	3.1	57
13	On the path to the digital rock physics of gas hydrate-bearing sediments â€“ processing of in situ synchrotron-tomography data. Solid Earth, 2016, 7, 1243-1258.	2.8	56
14	Guest Migration Revealed in CO₂ Clathrate Hydrates. Energy & Fuels, 2015, 29, 5681-5691.	5.1	42
15	Filling Ices with Helium and the Formation of Helium Clathrate Hydrate. Journal of Physical Chemistry Letters, 2018, 9, 3194-3198.	4.6	35
16	A Chiral Gasâ€“Hydrate Structure Common to the Carbon Dioxideâ€“Water and Hydrogenâ€“Water Systems. Journal of Physical Chemistry Letters, 2017, 8, 4295-4299.	4.6	34
17	Time Resolved Coarsening of Clathrate Crystals: The Case of Gas Hydrates. Crystal Growth and Design, 2017, 17, 2458-2472.	3.0	32
18	Fast methane diffusion at the interface of two clathrate structures. Nature Communications, 2017, 8, 1076.	12.8	25

#	Article	IF	Citations
19	Magma generation in an alternating transtensionalâ€“transpressional regime, the KrakÃ³wâ€“Lubliniec Fault Zone, Poland. Lithos, 2010, 119, 251-268.	1.4	22
20	Orientational Ordering, Locking-in, and Distortion of CH₄ Molecules in Methane Hydrate III under High Pressure. Journal of Physical Chemistry C, 2018, 122, 11159-11166.	3.1	15
21	Quantum Dynamics of H₂ and D₂ Confined in Hydrate Structures as a Function of Pressure and Temperature. Journal of Physical Chemistry C, 2019, 123, 1888-1903.	3.1	12
22	Dense Semiâ€Clathrates at High Pressure: A Study of the Waterâ€“tertâ€Butylamine System. Chemistry - A European Journal, 2017, 23, 3691-3698.	3.3	7
23	Stop-and-goin situtomography of dynamic processes â€“ gas hydrate formation in sedimentary matrices. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s154-s154.	0.1	6
24	Reply to Bogdan et al.: â€œCubic iceâ€•in cirrus clouds under dry and wet conditions. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, E2440.	7.1	2