Andrey S Stoporev

List of Publications by Year
in descending order

62	967	361296	501076
papers	citations	20 h-index	28 g-index

63	63	63	482
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Urea as a green thermodynamic inhibitor of sII gas hydrates. Chemical Engineering Journal, 2022, 429, 132386.	6.6	19
2	State of the Art and Prospects for the Development of the Hydrate-based Technology for Natural Gas Storage and Transportation (A Review). Petroleum Chemistry, 2022, 62, 127-140.	0.4	10
3	Humic Acids as a New Type of Methane Hydrate Formation Promoter and a Possible Mechanism for the Hydrate Growth Enhancement. ACS Sustainable Chemistry and Engineering, 2022, 10, 521-529.	3.2	10
4	Dimethyl sulfoxide as a novel thermodynamic inhibitor of carbon dioxide hydrate formation. Chemical Engineering Science, 2022, 255, 117670.	1.9	16
5	Dataset for the dimethyl sulfoxide as a novel thermodynamic inhibitor of carbon dioxide hydrate formation. Data in Brief, 2022, 42, 108289.	0.5	4
6	Time-dependent nucleation of methane hydrate in a water-in-oil emulsion: effect of water redistribution. Mendeleev Communications, 2022, 32, 414-416.	0.6	3
7	Influence of Water Saturation, Grain Size of Quartz Sand and Hydrate-Former on the Gas Hydrate Formation. Energies, 2021, 14, 1272.	1.6	13
8	Gas Hydrate and Corrosion Inhibition Performance of the Newly Synthesized Polyurethanes: Potential Dual Function Inhibitors. Energy & Fuels, 2021, 35, 6113-6124.	2.5	36
9	Physical chemistry and technological applications of gas hydrates: topical aspects. Russian Chemical Reviews, 2021, 90, 566-600.	2.5	33
10	Hydrate-based separation of the CO2 + H2 mixtures. Phase equilibria with isopropanol aqueous solutions and hydrogen solubility in CO2 hydrate. International Journal of Hydrogen Energy, 2021, 46, 32904-32913.	3.8	23
11	The pursuit of a more powerful thermodynamic hydrate inhibitor than methanol. Dimethyl sulfoxide as a case study. Chemical Engineering Journal, 2021, 423, 130227.	6.6	26
12	Metastable ionic cubic structure I clathrate hydrate formed with tetra-n-butylammonium bromide. Mendeleev Communications, 2021, 31, 17-19.	0.6	3
13	Comparison of micro-DSC and light scattering methods for studying the phase behavior of n-alkane in the oil-in-water dispersion. Journal of Thermal Analysis and Calorimetry, 2020, 142, 2035-2041.	2.0	6
14	Toward a bio-based hybrid inhibition of gas hydrate and corrosion for flow assurance. Energy, 2020, 210, 118549.	4.5	36
15	Gas hydrate nucleation and growth in the presence of water-soluble polymer, nonionic surfactants, and their mixtures. Journal of Natural Gas Science and Engineering, 2020, 82, 103491.	2.1	25
16	Analysis of methane hydrate nucleation in water-in-oil emulsions: Isothermal vs constant cooling ramp method and new method for data treatment. Journal of Molecular Liquids, 2020, 318, 114018.	2.3	19
17	Dual-Function Synergists Based on Glucose and Sucrose for Gas Hydrate and Corrosion Inhibition. Energy & Fuels, 2020, 34, 13717-13727.	2.5	30
18	Performance of Waterborne Polyurethanes in Inhibition of Gas Hydrate Formation and Corrosion: Influence of Hydrophobic Fragments. Molecules, 2020, 25, 5664.	1.7	23

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19	Methane Hydrate Formation in Halloysite Clay Nanotubes. ACS Sustainable Chemistry and Engineering, 2020, 8, 7860-7868.	3.2	37
20	Phase Change Materials in Energy: Current State of Research and Potential Applications. Chemistry and Technology of Fuels and Oils, 2020, 55, 733-741.	0.2	8
21	Insight into Hydrate Film Growth: Unusual Growth of Methane Hydrate Film at the Interface of Methane and the Aqueous Solution of Malonic Acid. Crystal Growth and Design, 2020, 20, 1927-1934.	1.4	10
22	Ionic clathrate hydrates loaded into a cryogel â€“ halloysite clay composite for cold storage. Applied Clay Science, 2020, 191, 105618.	2.6	21
23	Impact of biodegradation of oil on the kinetics of gas hydrate formation and decomposition. Journal of Petroleum Science and Engineering, 2020, 192, 107211.	2.1	12
24	Heterogeneous Nucleation of Ice in Dispersed Phase of Water-in-Decane Emulsion. Colloid Journal, 2019, 81, 199-203.	0.5	1
25	Laboratory Reactor for Visual Examination of Formation/Decomposition of Gas Hydrates in Water-Oil Systems. Russian Journal of Applied Chemistry, 2019, 92, 607-613.	0.1	6
26	Use of Transformer Oil and â€œDry Waterâ€•to Store and Transport Methane Hydrate. Chemistry and Technology of Fuels and Oils, 2019, 55, 280-286.	0.2	1
27	Nucleation of methane hydrate and ice in the emulsions of water in five kinds of crude oils. Petroleum Science and Technology, 2019, 37, 513-518.	0.7	1
28	Synergistic effect of salts and methanol in thermodynamic inhibition of sII gas hydrates. Journal of Chemical Thermodynamics, 2019, 137, 119-130.	1.0	29
29	Effect of the Degree of Oil Biodegradation on the Crystallization of Methane Hydrate and Ice in Water-Oil Emulsions. Russian Journal of Applied Chemistry, 2019, 92, 254-261.	0.1	0
30	Discrepancy between thermodynamic and kinetic stabilities of thetert-butanol hydrates and its implication for obtaining pharmaceutical powders by freeze-drying. Chemical Communications, 2019, 55, 4262-4265.	2.2	7
31	Effect of Temperature on the Rate of Methane Hydrate Nucleation in Water-in-Crude Oil Emulsion. Energy & Fuels, 2019, 33, 3155-3161.	2.5	18
32	Synergism of Methanol and Magnesium Chloride for Thermodynamic Inhibition of Methane Hydrate. Chemistry and Technology of Fuels and Oils, 2019, 54, 738-742.	0.2	11
33	Formation and agglomeration of gas hydrates in gas â€“ organic liquid â€“ water systems in a stirred reactor: Role of resins/asphaltenes/surfactants. Journal of Petroleum Science and Engineering, 2019, 176, 952-961.	2.1	43
34	Decomposition Kinetics and Self-Preservation of Methane Hydrate Particles in Crude Oil Dispersions: Experiments and Theory. Energy & Fuels, 2019, 33, 12353-12365.	2.5	13
35	Nucleation of methane hydrate and ice in emulsions of water in crude oils and decane under non-isothermal conditions. Chinese Journal of Chemical Engineering, 2019, 27, 668-676.	1.7	6
36	Preparation of fine powders by clathrate-forming freeze-drying: a case study of ammonium nitrate. Mendeleev Communications, 2018, 28, 211-213.	0.6	6

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37	Visual observation of gas hydrates nucleation and growth at a water â€“ organic liquid interface. Journal of Crystal Growth, 2018, 485, 54-68.	0.7	26
38	Unusual examples of methane hydrate nucleation in bilayer waterâ€“oil systems. Mendeleev Communications, 2018, 28, 663-665.	0.6	3
39	Influence of petroleum fractions on the process of methane hydrate self-preservation. Mendeleev Communications, 2018, 28, 533-535.	0.6	4
40	Methane hydrate self-preservation features in oil suspensions. IOP Conference Series: Earth and Environmental Science, 2018, 193, 012062.	0.2	0
41	Dependence of gas hydrates formation on the degree of oil degradation. , 2018, , .		0
42	Enhancement of gas hydrates synthesis with CNT surfaces. AIP Conference Proceedings, 2018, , .	0.3	6
43	Co-deposition of gas hydrate and oil wax from water-in-crude oil emulsion saturated with CO2. IOP Conference Series: Earth and Environmental Science, 2018, 193, 012042.	0.2	5
44	Influence of Fractions Isolated from Crude Oils and Refined Petroleum Product on Decomposition Process of Methane Hydrate. Energy & Fuels, 2018, 32, 11279-11288.	2.5	10
45	Visual Studies of Methane Hydrate Formation on the Waterâ€“Oil Boundaries. Crystal Growth and Design, 2018, 18, 6713-6722.	1.4	22
46	Unexpected formation of sII methane hydrate in some water-in-oil emulsions: Different reasons for the same phenomenon. Journal of Natural Gas Science and Engineering, 2018, 60, 284-293.	2.1	15
47	Cryosynthesis of Co-Crystals of Poorly Water-Soluble Pharmaceutical Compounds and Their Solid Dispersions with Polymers. The â€œMeloxicamâ€“Succinic Acidâ€•System as a Case Study. Crystal Growth and Design, 2018, 18, 7401-7409.	1.4	19
48	Methane hydrate nucleation on waterâ€”methane and waterâ€”decane boundaries. Thermochimica Acta, 2018, 668, 178-184.	1.2	16
49	Nucleation of gas hydrates in multiphase systems with several types of interfaces. Journal of Thermal Analysis and Calorimetry, 2018, 134, 783-795.	2.0	26
50	Heterogeneous Nucleation of Methane Hydrate in a Waterâ€“Decaneâ€“Methane Emulsion. Russian Journal of Physical Chemistry A, 2018, 92, 1293-1298.	0.1	6
51	Effect of reactor wall material on the nucleation of methane hydrate in water-in-oil emulsions. Mendeleev Communications, 2018, 28, 343-344.	0.6	15
52	Phase equilibrium for clathrate hydrate formed in methaneÂ+ÂwaterÂ+Âethylene carbonate system. Fluid Phase Equilibria, 2017, 432, 1-9.	1.4	19
53	Nucleation of Methane Hydrate in Water-In-Oil Emulsions: Role of the Phase Boundary. Energy & Fuels, 2016, 30, 3735-3741.	2.5	23
54	Self-Preservation of Gas Hydrate Particles Suspended in Crude Oils and Liquid Hydrocarbons: Role of Preparation Method, Dispersion Media, and Hydrate Former. Energy & Fuels, 2016, 30, 9014-9021.	2.5	22

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55	Nucleation rates of methane hydrate from water in oil emulsions. Canadian Journal of Chemistry, 2015, 93, 882-887.	0.6	41
56	DSC and thermal imaging studies of methane hydrate formation and dissociation in water emulsions in crude oils. Journal of Thermal Analysis and Calorimetry, 2015, 119, 757-767.	2.0	69
57	Unusual Self-Preservation of Methane Hydrate in Oil Suspensions. Energy & Fuels, 2014, 28, 794-802.	2.5	29
58	Dependence of the rate of formation and the P-T stability field of methane hydrate suspensions in crude oils upon oil composition. Petroleum Chemistry, 2014, 54, 171-177.	0.4	8
59	Self-Preservation Behaviour of Methane Hydrate Particles in Oil Suspensions. Mendeleev Communications, 2012, 22, 336-337.	0.6	4
60	High-Pressure Gas Hydrates of Argon: Compositions and Equations of State. Journal of Physical Chemistry B, 2011, 115, 9564-9569.	1.2	11
61	A new method for obtaining fine powders of paracetamol for compression without excipients. Doklady Physical Chemistry, 2011, 437, 78-81.	0.2	1
62	Study of oil sludge, waste oil and other auxiliary substances influence on the methane hydrate dissociation. IOP Conference Series: Earth and Environmental Science, 0, 193, 012064.	0.2	2