

# Andrey S Stoporev

## List of Publications by Year in descending order

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Version: 2024-02-01

62  
papers

967  
citations

361296

20  
h-index

501076

28  
g-index

63  
all docs

63  
docs citations

63  
times ranked

482  
citing authors

#	ARTICLE	IF	CITATIONS
1	DSC and thermal imaging studies of methane hydrate formation and dissociation in water emulsions in crude oils. <i>Journal of Thermal Analysis and Calorimetry</i> , 2015, 119, 757-767.	2.0	69
2	Formation and agglomeration of gas hydrates in gas “ organic liquid “ water systems in a stirred reactor: Role of resins/asphaltenes/surfactants. <i>Journal of Petroleum Science and Engineering</i> , 2019, 176, 952-961.	2.1	43
3	Nucleation rates of methane hydrate from water in oil emulsions. <i>Canadian Journal of Chemistry</i> , 2015, 93, 882-887.	0.6	41
4	Methane Hydrate Formation in Halloysite Clay Nanotubes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 7860-7868.	3.2	37
5	Toward a bio-based hybrid inhibition of gas hydrate and corrosion for flow assurance. <i>Energy</i> , 2020, 210, 118549.	4.5	36
6	Gas Hydrate and Corrosion Inhibition Performance of the Newly Synthesized Polyurethanes: Potential Dual Function Inhibitors. <i>Energy &amp; Fuels</i> , 2021, 35, 6113-6124.	2.5	36
7	Physical chemistry and technological applications of gas hydrates: topical aspects. <i>Russian Chemical Reviews</i> , 2021, 90, 566-600.	2.5	33
8	Dual-Function Synergists Based on Glucose and Sucrose for Gas Hydrate and Corrosion Inhibition. <i>Energy &amp; Fuels</i> , 2020, 34, 13717-13727.	2.5	30
9	Unusual Self-Preservation of Methane Hydrate in Oil Suspensions. <i>Energy &amp; Fuels</i> , 2014, 28, 794-802.	2.5	29
10	Synergistic effect of salts and methanol in thermodynamic inhibition of all gas hydrates. <i>Journal of Chemical Thermodynamics</i> , 2019, 137, 119-130.	1.0	29
11	Visual observation of gas hydrates nucleation and growth at a water “ organic liquid interface. <i>Journal of Crystal Growth</i> , 2018, 485, 54-68.	0.7	26
12	Nucleation of gas hydrates in multiphase systems with several types of interfaces. <i>Journal of Thermal Analysis and Calorimetry</i> , 2018, 134, 783-795.	2.0	26
13	The pursuit of a more powerful thermodynamic hydrate inhibitor than methanol. Dimethyl sulfoxide as a case study. <i>Chemical Engineering Journal</i> , 2021, 423, 130227.	6.6	26
14	Gas hydrate nucleation and growth in the presence of water-soluble polymer, nonionic surfactants, and their mixtures. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 82, 103491.	2.1	25
15	Nucleation of Methane Hydrate in Water-In-Oil Emulsions: Role of the Phase Boundary. <i>Energy &amp; Fuels</i> , 2016, 30, 3735-3741.	2.5	23
16	Performance of Waterborne Polyurethanes in Inhibition of Gas Hydrate Formation and Corrosion: Influence of Hydrophobic Fragments. <i>Molecules</i> , 2020, 25, 5664.	1.7	23
17	Hydrate-based separation of the CO <sub>2</sub> + H <sub>2</sub> mixtures. Phase equilibria with isopropanol aqueous solutions and hydrogen solubility in CO <sub>2</sub> hydrate. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 32904-32913.	3.8	23
18	Self-Preservation of Gas Hydrate Particles Suspended in Crude Oils and Liquid Hydrocarbons: Role of Preparation Method, Dispersion Media, and Hydrate Former. <i>Energy &amp; Fuels</i> , 2016, 30, 9014-9021.	2.5	22

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19	Visual Studies of Methane Hydrate Formation on the Water–Oil Boundaries. <i>Crystal Growth and Design</i> , 2018, 18, 6713-6722.	1.4	22
20	Ionic clathrate hydrates loaded into a cryogel – halloysite clay composite for cold storage. <i>Applied Clay Science</i> , 2020, 191, 105618.	2.6	21
21	Phase equilibrium for clathrate hydrate formed in methane–water–ethylene carbonate system. <i>Fluid Phase Equilibria</i> , 2017, 432, 1-9.	1.4	19
22	Cryosynthesis of Co-Crystals of Poorly Water-Soluble Pharmaceutical Compounds and Their Solid Dispersions with Polymers. The – Meloxicam – Succinic Acid – System as a Case Study. <i>Crystal Growth and Design</i> , 2018, 18, 7401-7409.	1.4	19
23	Analysis of methane hydrate nucleation in water-in-oil emulsions: Isothermal vs constant cooling ramp method and new method for data treatment. <i>Journal of Molecular Liquids</i> , 2020, 318, 114018.	2.3	19
24	Urea as a green thermodynamic inhibitor of sll gas hydrates. <i>Chemical Engineering Journal</i> , 2022, 429, 132386.	6.6	19
25	Effect of Temperature on the Rate of Methane Hydrate Nucleation in Water-in-Crude Oil Emulsion. <i>Energy &amp; Fuels</i> , 2019, 33, 3155-3161.	2.5	18
26	Methane hydrate nucleation on water–methane and water–decane boundaries. <i>Thermochimica Acta</i> , 2018, 668, 178-184.	1.2	16
27	Dimethyl sulfoxide as a novel thermodynamic inhibitor of carbon dioxide hydrate formation. <i>Chemical Engineering Science</i> , 2022, 255, 117670.	1.9	16
28	Unexpected formation of sll methane hydrate in some water-in-oil emulsions: Different reasons for the same phenomenon. <i>Journal of Natural Gas Science and Engineering</i> , 2018, 60, 284-293.	2.1	15
29	Effect of reactor wall material on the nucleation of methane hydrate in water-in-oil emulsions. <i>Mendeleev Communications</i> , 2018, 28, 343-344.	0.6	15
30	Decomposition Kinetics and Self-Preservation of Methane Hydrate Particles in Crude Oil Dispersions: Experiments and Theory. <i>Energy &amp; Fuels</i> , 2019, 33, 12353-12365.	2.5	13
31	Influence of Water Saturation, Grain Size of Quartz Sand and Hydrate-Former on the Gas Hydrate Formation. <i>Energies</i> , 2021, 14, 1272.	1.6	13
32	Impact of biodegradation of oil on the kinetics of gas hydrate formation and decomposition. <i>Journal of Petroleum Science and Engineering</i> , 2020, 192, 107211.	2.1	12
33	High-Pressure Gas Hydrates of Argon: Compositions and Equations of State. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9564-9569.	1.2	11
34	Synergism of Methanol and Magnesium Chloride for Thermodynamic Inhibition of Methane Hydrate. <i>Chemistry and Technology of Fuels and Oils</i> , 2019, 54, 738-742.	0.2	11
35	Influence of Fractions Isolated from Crude Oils and Refined Petroleum Product on Decomposition Process of Methane Hydrate. <i>Energy &amp; Fuels</i> , 2018, 32, 11279-11288.	2.5	10
36	Insight into Hydrate Film Growth: Unusual Growth of Methane Hydrate Film at the Interface of Methane and the Aqueous Solution of Malonic Acid. <i>Crystal Growth and Design</i> , 2020, 20, 1927-1934.	1.4	10

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37	State of the Art and Prospects for the Development of the Hydrate-based Technology for Natural Gas Storage and Transportation (A Review). <i>Petroleum Chemistry</i> , 2022, 62, 127-140.	0.4	10
38	Humic Acids as a New Type of Methane Hydrate Formation Promoter and a Possible Mechanism for the Hydrate Growth Enhancement. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 521-529.	3.2	10
39	Dependence of the rate of formation and the P-T stability field of methane hydrate suspensions in crude oils upon oil composition. <i>Petroleum Chemistry</i> , 2014, 54, 171-177.	0.4	8
40	Phase Change Materials in Energy: Current State of Research and Potential Applications. <i>Chemistry and Technology of Fuels and Oils</i> , 2020, 55, 733-741.	0.2	8
41	Discrepancy between thermodynamic and kinetic stabilities of the <i>tert</i> -butanol hydrates and its implication for obtaining pharmaceutical powders by freeze-drying. <i>Chemical Communications</i> , 2019, 55, 4262-4265.	2.2	7
42	Preparation of fine powders by clathrate-forming freeze-drying: a case study of ammonium nitrate. <i>Mendelev Communications</i> , 2018, 28, 211-213.	0.6	6
43	Enhancement of gas hydrates synthesis with CNT surfaces. <i>AIP Conference Proceedings</i> , 2018, , .	0.3	6
44	Heterogeneous Nucleation of Methane Hydrate in a Water-Decane-Methane Emulsion. <i>Russian Journal of Physical Chemistry A</i> , 2018, 92, 1293-1298.	0.1	6
45	Laboratory Reactor for Visual Examination of Formation/Decomposition of Gas Hydrates in Water-Oil Systems. <i>Russian Journal of Applied Chemistry</i> , 2019, 92, 607-613.	0.1	6
46	Nucleation of methane hydrate and ice in emulsions of water in crude oils and decane under non-isothermal conditions. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 668-676.	1.7	6
47	Comparison of micro-DSC and light scattering methods for studying the phase behavior of n-alkane in the oil-in-water dispersion. <i>Journal of Thermal Analysis and Calorimetry</i> , 2020, 142, 2035-2041.	2.0	6
48	Co-deposition of gas hydrate and oil wax from water-in-crude oil emulsion saturated with CO <sub>2</sub> . <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 193, 012042.	0.2	5
49	Self-Preservation Behaviour of Methane Hydrate Particles in Oil Suspensions. <i>Mendelev Communications</i> , 2012, 22, 336-337.	0.6	4
50	Influence of petroleum fractions on the process of methane hydrate self-preservation. <i>Mendelev Communications</i> , 2018, 28, 533-535.	0.6	4
51	Dataset for the dimethyl sulfoxide as a novel thermodynamic inhibitor of carbon dioxide hydrate formation. <i>Data in Brief</i> , 2022, 42, 108289.	0.5	4
52	Unusual examples of methane hydrate nucleation in bilayer water-oil systems. <i>Mendelev Communications</i> , 2018, 28, 663-665.	0.6	3
53	Metastable ionic cubic structure I clathrate hydrate formed with tetra-n-butylammonium bromide. <i>Mendelev Communications</i> , 2021, 31, 17-19.	0.6	3
54	Time-dependent nucleation of methane hydrate in a water-in-oil emulsion: effect of water redistribution. <i>Mendelev Communications</i> , 2022, 32, 414-416.	0.6	3

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55	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
56	A new method for obtaining fine powders of paracetamol for compression without excipients. Doklady Physical Chemistry, 2011, 437, 78-81.	0.2	1
57	Heterogeneous Nucleation of Ice in Dispersed Phase of Water-in-Decane Emulsion. Colloid Journal, 2019, 81, 199-203.	0.5	1
58	Use of Transformer Oil and "Dry Water" to Store and Transport Methane Hydrate. Chemistry and Technology of Fuels and Oils, 2019, 55, 280-286.	0.2	1
59	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
60	Methane hydrate self-preservation features in oil suspensions. IOP Conference Series: Earth and Environmental Science, 2018, 193, 012062.	0.2	0
61	Dependence of gas hydrates formation on the degree of oil degradation. , 2018, , .		0
62	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