Sergey Martynov

List of Publications by Year
in descending order

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29 papers	552 citations	687363 13 h-index	677142 22 g-index
29 all docs	29 docs citations	29 times ranked	436 citing authors

#	Article	IF	Citations
1	The natural frequencies of microbubble oscillation in elastic vessels. Journal of the Acoustical Society of America, 2009, 126, 2963-2972.	1.1	62
2	Pressure response and phase transition in supercritical CO2 releases from a large-scale pipeline. Applied Energy, 2016, 178, 189-197.	10.1	48
3	Modelling three-phase releases of carbon dioxide from high-pressure pipelines. Chemical Engineering Research and Design, 2014, 92, 36-46.	5.6	42
4	Under-expanded jets and dispersion in supercritical CO2 releases from a large-scale pipeline. Applied Energy, 2016, 183, 1279-1291.	10.1	38
5	A study of the effects of friction, heat transfer, and stream impurities on the decompression behavior in CO₂ pipelines. , 2012, 2, 369-379.		33
6	CO2PipeHaz: Quantitative Hazard Assessment for Next Generation CO2 Pipelines. Energy Procedia, 2014, 63, 2510-2529.	1.8	29
7	Pressure responses and phase transitions during the release of high pressure CO 2 from a large-scale pipeline. Energy, 2017, 118, 1066-1078.	8.8	28
8	An extended Pengâ€Robinson equation of state for carbon dioxide solidâ€vapor equilibrium. , 2013, 3, 136-147.		27
9	Techno-economic assessment of CO 2 quality effect on its storage and transport: CO 2 QUEST. International Journal of Greenhouse Gas Control, 2016, 54, 662-681.	4.6	25
10	Modelling choked flow for CO2 from the dense phase to below the triple point. International Journal of Greenhouse Gas Control, 2013, 19, 552-558.	4.6	24
11	Under-expanded jets and dispersion in high pressure CO2 releases from an industrial scale pipeline. Energy, 2017, 119, 53-66.	8.8	23
12	Flow characteristics and dispersion during the leakage of high pressure CO 2 from an industrial scale pipeline. International Journal of Greenhouse Gas Control, 2018, 73, 70-78.	4.6	22
13	Preparation of a Micro-Porous Alginate Gel Using a Microfluidic Bubbling Device. International Journal of Food Engineering, 2010, 6, .	1.5	19
14	CO2QUEST: Techno-economic Assessment of CO2 Quality Effect on Its Storage and Transport. Energy Procedia, 2014, 63, 2622-2629.	1.8	19
15	Hybrid fluidâ€“structure interaction modelling of dynamic brittle fracture in steel pipelines transporting CO 2 streams. International Journal of Greenhouse Gas Control, 2016, 54, 702-715.	4.6	15
16	A fully coupled fluid-structure interaction simulation of three-dimensional dynamic ductile fracture in a steel pipeline. Theoretical and Applied Fracture Mechanics, 2019, 101, 224-235.	4.7	14
17	A multi-source flow model for CCS pipeline transportation networks. International Journal of Greenhouse Gas Control, 2015, 43, 108-114.	4.6	13
18	Computational and Experimental Study of Solid-Phase Formation during the Decompression of High-Pressure CO₂ Pipelines. Industrial & Engineering Chemistry Research, 2018, 57, 7054-7063.	3.7	13

#	Article	IF	Citations
19	Modeling of CO₂ Decompression across the Triple Point. Industrial & Engineering Chemistry Research, 2017, 56, 10491-10499.	3.7	12
20	Forced vibrations of a bubble in a liquid-filled elastic vessel. Journal of the Acoustical Society of America, 2011, 130, 2700-2708.	1.1	9
21	Assessment of Integral Thermo-Hydraulic Models for Pipeline Transportation of Dense-Phase and Supercritical CO₂. Industrial & Engineering Chemistry Research, 2015, 54, 8587-8599.	3.7	9
22	Shale gas well blowout fire and explosion modelling. Applied Thermal Engineering, 2019, 149, 1061-1068.	6.0	8
23	Modelling emergency isolation of carbon dioxide pipelines. International Journal of Greenhouse Gas Control, 2016, 44, 88-93.	4.6	6
24	Assessment of brittle fractures in CO2 transportation pipelines: A hybrid fluid-structure interaction model. Procedia Structural Integrity, 2016, 2, 2439-2446.	0.8	5
25	Flow characteristics and dispersion during the vertical anthropogenic venting of supercritical CO2 from an industrial scale pipeline. Energy Procedia, 2018, 154, 66-72.	1.8	5
26	Optimal Valve Spacing for Next Generation CO2 Pipelines. Computer Aided Chemical Engineering, 2014, 33, 265-270.	0.5	2
27	Numerical study of the effect of heat transfer on solid phase formation during decompression of CO2 in pipelines. MATEC Web of Conferences, 2018, 240, 01026.	0.2	1
28	Henryâ€™s Law Constants and Vaporâ€“Liquid Distribution Coefficients of Noncondensable Gases Dissolved in Carbon Dioxide. ACS Omega, 2022, 7, 8777-8788.	3.5	1
29	FIRE AND EXPLOSION MODELLING FOLLOWING THE ACCIDENTAL FAILURE OF HIGH PRESSURE ETHYLENE TRANSPORTATION PIPELINES. , 2019, , .		0