Haroun Mahgerefteh

List of Publications by Year
in descending order

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Version: 2024-02-01

42 papers	785 citations	516215 16 h-index	552369 26 g-index
42 all docs	42 docs citations	42 times ranked	381 citing authors

#	Article	IF	Citations
1	Modelling the impact of stream impurities on ductile fractures in CO2 pipelines. Chemical Engineering Science, 2012, 74, 200-210.	1.9	61
2	A transient outflow model for pipeline puncture. Chemical Engineering Science, 2003, 58, 4591-4604.	1.9	52
3	Pressure response and phase transition in supercritical CO2 releases from a large-scale pipeline. Applied Energy, 2016, 178, 189-197.	5.1	48
4	Modelling three-phase releases of carbon dioxide from high-pressure pipelines. Chemical Engineering Research and Design, 2014, 92, 36-46.	2.7	42
5	Fast numerical simulation for full bore rupture of pressurized pipelines. AICHE Journal, 1999, 45, 1191-1201.	1.8	40
6	A numerical blowdown simulation incorporating cubic equations of state. Computers and Chemical Engineering, 1999, 23, 1309-1317.	2.0	39
7	Efficient numerical solution for highly transient flows. Chemical Engineering Science, 2006, 61, 5049-5056.	1.9	38
8	A study of the effects of friction, heat transfer, and stream impurities on the decompression behavior in CO₂ pipelines. , 2012, 2, 369-379.		33
9	Modelling outflow following rupture in pipeline networks. Chemical Engineering Science, 2006, 61, 1811-1818.	1.9	32
10	CO2PipeHaz: Quantitative Hazard Assessment for Next Generation CO2 Pipelines. Energy Procedia, 2014, 63, 2510-2529.	1.8	29
11	Pressure responses and phase transitions during the release of high pressure CO 2 from a large-scale pipeline. Energy, 2017, 118, 1066-1078.	4.5	28
12	Modeling fluid phase transition effects on dynamic behavior of ESDV. AICHE Journal, 2000, 46, 997-1006.	1.8	27
13	An extended Pengâ€Robinson equation of state for carbon dioxide solidâ€vapor equilibrium. , 2013, 3, 136-147.		27
14	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.	2.3	25
15	Modeling blowdown of cylindrical vessels under fire attack. AICHE Journal, 2002, 48, 401-410.	1.8	24
16	Modeling low-temperatureâ€“induced failure of pressurized pipelines. AICHE Journal, 2006, 52, 1248-1256.	1.8	24
17	Modelling choked flow for CO2 from the dense phase to below the triple point. International Journal of Greenhouse Gas Control, 2013, 19, 552-558.	2.3	24
18	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.	2.3	22

#	Article	IF	Citations
19	Modelling brittle fracture propagation in gas and dense-phase CO2 transportation pipelines. International Journal of Greenhouse Gas Control, 2016, 46, 39-47.	2.3	17
20	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.	2.3	15
21	A hybrid multiphase flow model. AICHE Journal, 2008, 54, 2261-2268.	1.8	14
22	Courant, Friedrichs and Lewy (CFL) impact on numerical convergence of highly transient flows. Chemical Engineering Science, 2009, 64, 4969-4975.	1.9	14
23	A multi-source flow model for CCS pipeline transportation networks. International Journal of Greenhouse Gas Control, 2015, 43, 108-114.	2.3	13
24	Computational and Experimental Study of Solid-Phase Formation during the Decompression of High-Pressure CO₂ Pipelines. Industrial & Engineering Chemistry Research, 2018, 57, 7054-7063.	1.8	13
25	Modeling of CO₂ Decompression across the Triple Point. Industrial & Engineering Chemistry Research, 2017, 56, 10491-10499.	1.8	12
26	Assessment of Integral Thermo-Hydraulic Models for Pipeline Transportation of Dense-Phase and Supercritical CO₂. Industrial & Engineering Chemistry Research, 2015, 54, 8587-8599.	1.8	9
27	Shale gas well blowout fire and explosion modelling. Applied Thermal Engineering, 2019, 149, 1061-1068.	3.0	8
28	Modeling blowdown of pipelines under fire attack. AICHE Journal, 2007, 53, 2443-2450.	1.8	7
29	When does a vessel become a pipe?. AICHE Journal, 2011, 57, 3305-3314.	1.8	7
30	Assessment of Fracture Propagation in Pipelines Transporting Impure CO2 Streams. Energy Procedia, 2017, 114, 6685-6697.	1.8	7
31	Modelling emergency isolation of carbon dioxide pipelines. International Journal of Greenhouse Gas Control, 2016, 44, 88-93.	2.3	6
32	Modelling start-up injection of CO2 into highly-depleted gas fields. Energy, 2020, 191, 116530.	4.5	6
33	Addressing the risks of induced seismicity in subsurface energy operations. Wiley Interdisciplinary Reviews: Energy and Environment, 2019, 8, e324.	1.9	5
34	An experimental investigation on pressure response and phase transition of supercritical carbon dioxide releases from a smallâ€scale pipeline. Asia-Pacific Journal of Chemical Engineering, 2018, 13, e2197.	0.8	4
35	Modeling of Depressurization-Induced Superheating for Compressed Liquefied Gases. Industrial & Engineering Chemistry Research, 2017, 56, 5432-5442.	1.8	3
36	Optimal emergency shutdown valve configuration for pressurised pipelines. Chemical Engineering Research and Design, 2022, 159, 768-778.	2.7	3

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37	Investigating the impact of flow rate ramp-up on carbon dioxide start-up injection. International Journal of Greenhouse Gas Control, 2019, 88, 482-490.	2.3	2
38	Optimal Valve Spacing for Next Generation CO2 Pipelines. Computer Aided Chemical Engineering, 2014, 33, 265-270.	0.3	2
39	Modeling of a novel vibrospring particle-size distribution analyzer. AICHE Journal, 2001, 47, 562-571.	1.8	1
40	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.	0.1	1
41	Henryâ€™s Law Constants and Vaporâ€“Liquid Distribution Coefficients of Noncondensable Gases Dissolved in Carbon Dioxide. ACS Omega, 2022, 7, 8777-8788.	1.6	1
42	On-line particulate emission monitor. Powder Technology, 2003, 131, 185-196.	2.1	0