

Jean-Philippe Torre

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,212
citations

430442

18
h-index

360668

35
g-index

40
all docs

40
docs citations

40
times ranked

818
citing authors

#	ARTICLE	IF	CITATIONS
1	Insights on the formation and dissociation mechanisms of cyclopentane hydrate obtained by using calorimetry and optical microscopy. <i>Chemical Engineering Research and Design</i> , 2022, 177, 117-122.	2.7	1
2	Ozonized 2-hydroxypropyl- β -cyclodextrins as novel materials with oxidative and bactericidal properties. <i>Carbohydrate Polymers</i> , 2022, 291, 119516.	5.1	2
3	Using Microscopic Observations of Cyclopentane Hydrate Crystal Morphology and Growth Patterns To Estimate the Antiagglomeration Capacity of Surfactants. <i>Energy & Fuels</i> , 2020, 34, 5176-5187.	2.5	6
4	Novel Hydroquinone-Alumina Composites Stabilizing a Guest-Free Clathrate Structure: Applications in Gas Processing. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 34137-34147.	4.0	1
5	A novel stirred microcalorimetric cell for DSC measurements applied to the study of ice slurries and clathrate hydrates. <i>Chemical Engineering Research and Design</i> , 2020, 160, 465-475.	2.7	5
6	Insights into the Crystal Structure and Clathration Selectivity of Organic Clathrates Formed with Hydroquinone and (CO ₂ + CH ₄) Gas Mixtures. <i>Journal of Physical Chemistry C</i> , 2019, 123, 14582-14590.	1.5	11
7	Hydroquinone clathrate based gas separation (HCBGS): Application to the CO ₂ /CH ₄ gas mixture. <i>Fuel</i> , 2018, 226, 137-147.	3.4	12
8	Phase equilibrium properties of CO ₂ /CH ₄ mixed gas hydroquinone clathrates: Experimental data and model predictions. <i>Journal of Chemical Thermodynamics</i> , 2018, 116, 230-234.	1.0	10
9	Effects of a Quaternary Ammonium Salt on the Growth, Wettability, and Agglomeration of Structure II Hydrate Crystals. <i>Energy & Fuels</i> , 2018, 32, 12277-12288.	2.5	12
10	Determination of thermophysical properties of cyclopentane hydrate using a stirred calorimetric cell. <i>Journal of Chemical Thermodynamics</i> , 2018, 125, 136-141.	1.0	18
11	Kinetics of CO ₂ Capture by Hydroquinone Clathrates. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8172-8182.	1.8	6
12	Creating innovative composite materials to enhance the kinetics of CO ₂ capture by hydroquinone clathrates. <i>Chemical Engineering Journal</i> , 2017, 325, 35-48.	6.6	15
13	Computational study of the interplay between intermolecular interactions and CO ₂ orientations in type I hydrates. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 3384-3393.	1.3	17
14	Characterization Study of CO ₂ , CH ₄ , and CO ₂ /CH ₄ Hydroquinone Clathrates Formed by Gas-Solid Reaction. <i>Journal of Physical Chemistry C</i> , 2017, 121, 22883-22894.	1.5	15
15	Effect of a Hydrophilic Cationic Surfactant on Cyclopentane Hydrate Crystal Growth at the Water/Cyclopentane Interface. <i>Crystal Growth and Design</i> , 2017, 17, 5098-5107.	1.4	29
16	New Insights on Gas Hydroquinone Clathrates Using in Situ Raman Spectroscopy: Formation/Dissociation Mechanisms, Kinetics, and Capture Selectivity. <i>Journal of Physical Chemistry A</i> , 2017, 121, 5450-5458.	1.1	21
17	Rheological study of CO ₂ hydrate slurry in the presence of Sodium Dodecyl Sulfate in a secondary refrigeration loop. <i>Chemical Engineering Science</i> , 2017, 158, 294-303.	1.9	42
18	Experimental Determination of Phase Equilibria and Occupancies for CO ₂ , CH ₄ , and N ₂ Hydroquinone Clathrates. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 2565-2572.	1.0	18

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19	CO ₂ Hydroquinone Clathrate: Synthesis, Purification, Characterization and Crystal Structure. <i>Crystal Growth and Design</i> , 2016, 16, 5330-5338.	1.4	30
20	Influence of the carbon chain length of a sulfate-based surfactant on the formation of CO ₂ , CH ₄ and CO ₂ -CH ₄ gas hydrates. <i>Chemical Engineering Science</i> , 2016, 152, 736-745.	1.9	49
21	Revisiting the thermodynamic modelling of type I gas hydroquinone clathrates. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 10018-10027.	1.3	18
22	1,3 Dioxolane versus tetrahydrofuran as promoters for CO ₂ hydrate formation: Thermodynamics properties, and kinetics in presence of sodium dodecyl sulfate. <i>Chemical Engineering Science</i> , 2015, 126, 688-697.	1.9	46
23	Molecular dynamics simulation of CO ₂ hydrates: Prediction of three phase coexistence line. <i>Journal of Chemical Physics</i> , 2015, 142, 124505.	1.2	96
24	DFT calculation of the potential energy landscape topology and Raman spectra of type I CH ₄ and CO ₂ hydrates. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 6963-6975.	1.3	28
25	Hydrate growth at the interface between water and pure or mixed CO ₂ /CH ₄ gases: Influence of pressure, temperature, gas composition and water-soluble surfactants. <i>Chemical Engineering Science</i> , 2015, 132, 118-127.	1.9	78
26	Understanding the Phase Behavior of Tetrahydrofuran + Carbon Dioxide, + Methane, and + Water Binary Mixtures from the SAFT-VR Approach. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14288-14302.	1.2	17
27	In situ injection of THF to trigger gas hydrate crystallization: Application to the evaluation of a kinetic hydrate promoter. <i>Chemical Engineering Research and Design</i> , 2014, 92, 1674-1680.	2.7	21
28	Combination of surfactants and organic compounds for boosting CO ₂ separation from natural gas by clathrate hydrate formation. <i>Fuel</i> , 2014, 122, 206-217.	3.4	82
29	CO ₂ Removal from a CO ₂ -CH ₄ Gas Mixture by Clathrate Hydrate Formation Using THF and SDS as Water-Soluble Hydrate Promoters. <i>Industrial & Engineering Chemistry Research</i> , 2013, 52, 899-910.	1.8	106
30	Carbon dioxide gas hydrate crystallization in porous silica gel particles partially saturated with a surfactant solution. <i>Chemical Engineering Science</i> , 2013, 98, 88-97.	1.9	58
31	Development of a new type of high pressure calorimetric cell, mechanically agitated and equipped with a dynamic pressure control system: Application to the characterization of gas hydrates. <i>Review of Scientific Instruments</i> , 2013, 84, 125107.	0.6	3
32	CO ₂ enclathration in the presence of water-soluble hydrate promoters: Hydrate phase equilibria and kinetic studies in quiescent conditions. <i>Chemical Engineering Science</i> , 2012, 82, 1-13.	1.9	99
33	Experimental Data, Modeling, and Correlation of Carbon Dioxide Solubility in Aqueous Solutions Containing Low Concentrations of Clathrate Hydrate Promoters: Application to CO ₂ -CH ₄ Gas Mixtures. <i>Industrial & Engineering Chemistry Research</i> , 2012, 51, 3157-3169.	1.8	44
34	CO ₂ capture by hydrate formation in quiescent conditions: In search of efficient kinetic additives. <i>Energy Procedia</i> , 2011, 4, 621-628.	1.8	62
35	Jet injection studies for partially baffled mixing reactors: A general correlation for the jet trajectory and jet penetration depth. <i>Chemical Engineering Research and Design</i> , 2008, 86, 1117-1127.	2.7	5
36	An experimental and CFD study of liquid jet injection into a partially baffled mixing vessel: A contribution to process safety by improving the quenching of runaway reactions. <i>Chemical Engineering Science</i> , 2008, 63, 924-942.	1.9	17

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37	An experimental and computational study of the vortex shape in a partially baffled agitated vessel. Chemical Engineering Science, 2007, 62, 1915-1926.	1.9	48
38	Single and multiphase CFD approaches for modelling partially baffled stirred vessels: Comparison of experimental data with numerical predictions. Chemical Engineering Science, 2007, 62, 6246-6262.	1.9	49
39	Transient Hydrodynamics and Free Surface Capture of an Under-Baffled Stirred Tank During Stopping. Chemical Engineering Research and Design, 2007, 85, 626-636.	2.7	11