

Patrice Perreault

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

520
citations

758635

12
h-index

794141

19
g-index

19
all docs

19
docs citations

19
times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental investigation of methane hydrate formation in the presence of metallic packing. Fuel, 2022, 323, 124269.	3.4	3
2	Gas-solid hydrodynamics in a stator-rotor vortex chamber reactor. Chemical Engineering Journal, 2022, 446, 137323.	6.6	1
3	Challenges in the use of hydrogen for maritime applications. Energy and Environmental Science, 2021, 14, 815-843.	15.6	159
4	Biomass fast pyrolysis in an innovative gas-solid vortex reactor: Experimental proof of concept. Journal of Analytical and Applied Pyrolysis, 2021, 156, 105165.	2.6	20
5	Hydrogen Clathrates: Next Generation Hydrogen Storage Materials. Energy Storage Materials, 2021, 41, 69-107.	9.5	89
6	Intensifying Mass and Heat Transfer using a High-g Stator-Rotor Vortex Chamber. Chemical Engineering and Processing: Process Intensification, 2021, 169, 108638.	1.8	8
7	A New Generalized Empirical Correlation for Predicting Methane Hydrate Equilibrium Conditions in Pure Water. Industrial & Engineering Chemistry Research, 2021, 60, 3474-3483.	1.8	13
8	Thermodynamically unconstrained forced concentration cycling of methane catalytic partial oxidation over CeO ₂ FeCr alloy catalysts. Chemical Engineering Journal, 2020, 380, 122470.	6.6	17
9	Experimental Methods in Chemical Engineering: Mass Spectrometry MS. Canadian Journal of Chemical Engineering, 2019, 97, 1036-1042.	0.9	16
10	Process Intensification in a Gas-Solid Vortex Unit: Computational Fluid Dynamics Model Based Analysis and Design. Industrial & Engineering Chemistry Research, 2019, 58, 12751-12765.	1.8	24
11	Azimuthal and radial flow patterns of 1g-Geldart B-type particles in a gas-solid vortex reactor. Powder Technology, 2019, 354, 410-422.	2.1	15
12	An experimental and numerical study of the suppression of jets, counterflow, and backflow in vortex units. AIChE Journal, 2019, 65, e16614.	1.8	17
13	Computational Fluid Dynamics-Assisted Process Intensification Study for Biomass Fast Pyrolysis in a Gas-Solid Vortex Reactor. Energy & Fuels, 2018, 32, 10169-10183.	2.5	28
14	Design and cold flow testing of a Gas-Solid Vortex Reactor demonstration unit for biomass fast pyrolysis. Chemical Engineering Journal, 2017, 329, 198-210.	6.6	53
15	Chemical looping syngas from CO ₂ and H ₂ O over manganese oxide minerals. Canadian Journal of Chemical Engineering, 2016, 94, 703-712.	0.9	13
16	Carbonation and deactivation kinetics of a mixed calcium oxide-copper oxide sorbent/oxygen carrier for post-combustion carbon dioxide capture. Chemical Engineering Journal, 2016, 306, 726-733.	6.6	6
17	Pyrolusite: An alternative oxygen carrier for chemical looping combustion. Fuel, 2016, 185, 630-638.	3.4	9
18	Pyrolusite CO reduction kinetics. Chemical Engineering Journal, 2016, 295, 227-236.	6.6	17

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19	Ilmeniteâ€‘CO reduction kinetics. Fuel, 2016, 165, 166-172.	3.4	12