

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	Challenges in the use of hydrogen for maritime applications. <i>Energy and Environmental Science</i> , 2021, 14, 815-843.	15.6	159
2	Hydrogen Clathrates: Next Generation Hydrogen Storage Materials. <i>Energy Storage Materials</i> , 2021, 41, 69-107.	9.5	89
3	Design and cold flow testing of a Gas-Solid Vortex Reactor demonstration unit for biomass fast pyrolysis. <i>Chemical Engineering Journal</i> , 2017, 329, 198-210.	6.6	53
4	Computational Fluid Dynamics-Assisted Process Intensification Study for Biomass Fast Pyrolysis in a Gas-Solid Vortex Reactor. <i>Energy & Fuels</i> , 2018, 32, 10169-10183.	2.5	28
5	Process Intensification in a Gas-Solid Vortex Unit: Computational Fluid Dynamics Model Based Analysis and Design. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 12751-12765.	1.8	24
6	Biomass fast pyrolysis in an innovative gas-solid vortex reactor: Experimental proof of concept. <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 156, 105165.	2.6	20
7	Pyrolusite-CO reduction kinetics. <i>Chemical Engineering Journal</i> , 2016, 295, 227-236.	6.6	17
8	An experimental and numerical study of the suppression of jets, counterflow, and backflow in vortex units. <i>AIChE Journal</i> , 2019, 65, e16614.	1.8	17
9	Thermodynamically unconstrained forced concentration cycling of methane catalytic partial oxidation over CeO ₂ Fe-Cr alloy catalysts. <i>Chemical Engineering Journal</i> , 2020, 380, 122470.	6.6	17
10	Experimental Methods in Chemical Engineering: Mass Spectrometry-MS. <i>Canadian Journal of Chemical Engineering</i> , 2019, 97, 1036-1042.	0.9	16
11	Azimuthal and radial flow patterns of 1g-Geldart B-type particles in a gas-solid vortex reactor. <i>Powder Technology</i> , 2019, 354, 410-422.	2.1	15
12	Chemical looping syngas from CO ₂ and H ₂ O over manganese oxide minerals. <i>Canadian Journal of Chemical Engineering</i> , 2016, 94, 703-712.	0.9	13
13	A New Generalized Empirical Correlation for Predicting Methane Hydrate Equilibrium Conditions in Pure Water. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3474-3483.	1.8	13
14	Ilmenite-CO reduction kinetics. <i>Fuel</i> , 2016, 165, 166-172.	3.4	12
15	Pyrolusite: An alternative oxygen carrier for chemical looping combustion. <i>Fuel</i> , 2016, 185, 630-638.	3.4	9
16	Intensifying Mass and Heat Transfer using a High-g Stator-Rotor Vortex Chamber. <i>Chemical Engineering and Processing: Process Intensification</i> , 2021, 169, 108638.	1.8	8
17	Carbonation and deactivation kinetics of a mixed calcium oxide-copper oxide sorbent/oxygen carrier for post-combustion carbon dioxide capture. <i>Chemical Engineering Journal</i> , 2016, 306, 726-733.	6.6	6
18	Experimental investigation of methane hydrate formation in the presence of metallic packing. <i>Fuel</i> , 2022, 323, 124269.	3.4	3

#	ARTICLE	IF	CITATIONS
19	Gas-solid hydrodynamics in a stator-rotor vortex chamber reactor. Chemical Engineering Journal, 2022, 446, 137323.	6.6	1