Daniel A Hickman

List of Publications by Year
in descending order

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24 papers	2,466 citations	758635 12 h-index	642321 23 g-index
25 all docs	25 docs citations	25 times ranked	1646 citing authors

#	Article	IF	Citations
1	Production of Syngas by Direct Catalytic Oxidation of Methane. Science, 1993, 259, 343-346.	6.0	887
2	Synthesis gas formation by direct oxidation of methane over Pt monoliths*1. Journal of Catalysis, 1992, 138, 267-282.	3.1	508
3	Steps in CH4 oxidation on Pt and Rh surfaces: High-temperature reactor simulations. AICHE Journal, 1993, 39, 1164-1177.	1.8	319
4	Synthesis gas formation by direct oxidation of methane over Rh monoliths. Catalysis Letters, 1993, 17, 223-237.	1.4	291
5	Kinetics and Mechanism of Ethanol Dehydration on Î³-Al₂O₃: The Critical Role of Dimer Inhibition. ACS Catalysis, 2013, 3, 798-807.	5.5	162
6	The role of boundary layer mass transfer in partial oxidation selectivity. Journal of Catalysis, 1992, 136, 300-308.	3.1	62
7	Fundamental principles of laboratory fixed bed reactor design. Current Opinion in Chemical Engineering, 2016, 13, 1-9.	3.8	41
8	Alternative catalyst supports for hydrogen cyanide synthesis and ammonia oxidation. Industrial & Engineering Chemistry Research, 1993, 32, 809-817.	1.8	30
9	Successful Scale-up of an Industrial Trickle Bed Hydrogenation Using Laboratory Reactor Data. Industrial & Engineering Chemistry Research, 2013, 52, 15287-15292.	1.8	23
10	A comparison of a batch recycle reactor and an integral reactor with fines for scale-up of an industrial trickle bed reactor from laboratory data. Chemical Engineering Science, 2004, 59, 5425-5430.	1.9	21
11	Modeling catalytic gauze reactors: ammonia oxidation. Industrial & Engineering Chemistry Research, 1991, 30, 50-55.	1.8	16
12	Reactor Scale-up for Fluidized Bed Conversion of Ethane to Vinyl Chloride. Industrial & Engineering Chemistry Research, 2010, 49, 10674-10681.	1.8	16
13	Effects of Prewetting on Bubbly- and Pulsing-Flow Regime Transitions in Trickle-Bed Reactors. Industrial & Engineering Chemistry Research, 2015, 54, 10253-10259.	1.8	11
14	A First-Principle Analysis of Ethylene Chemisorption on Copper Chloride Clusters. Journal of Physical Chemistry B, 2001, 105, 1562-1572.	1.2	10
15	Hydrodynamics of Trickle Bed Reactors with Catalyst Support Particle Size Distributions. Industrial & Engineering Chemistry Research, 2014, 53, 9027-9034.	1.8	10
16	A Novel Continuous Multiphase Reactor for Chemically Processing Polymer Fibers. Industrial & Engineering Chemistry Research, 2018, 57, 6123-6130.	1.8	10
17	Effect of packing size on packed bubble column hydrodynamics. Chemical Engineering Science, 2018, 186, 199-208.	1.9	10
18	A Hybrid Modeling Approach for Catalyst Monitoring and Lifetime Prediction. ACS Engineering Au, 2022, 2, 17-26.	2.3	10

#	Article	IF	Citations
19	Nonlinear mixed-effects models for kinetic parameter estimation with batch reactor data. Chemical Engineering Journal, 2019, 377, 119817.	6.6	9
20	The effects of particle properties, void fraction, and surface tension on the trickle-bubbly flow regime transition in trickle bed reactors. Chemical Engineering Journal, 2016, 285, 402-408.	6.6	8
21	A continuous diethanolamine dehydrogenation fixed bed catalyst and reactor system. Chemical Engineering Journal, 2015, 278, 447-453.	6.6	7
22	Methanol to hydrocarbons conversion: Why dienes and monoenes contribute differently to catalyst deactivation?. Chemical Engineering Journal, 2022, 437, 134229.	6.6	3
23	<scp>Fluidizedâ€bed</scp> reactor <scp>scaleâ€up</scp>: Reaction kinetics required. AICHE Journal, 2022, 68, .	1.8	2
24	Liquid Phase Process Characterization. , 0, , 407-429.		0