

Calvin H Bartholomew

List of Publications by Year in descending order

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32
papers

5,920
citations

304743

22
h-index

395702

33
g-index

34
all docs

34
docs citations

34
times ranked

6780
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanisms of catalyst deactivation. <i>Applied Catalysis A: General</i> , 2001, 212, 17-60.	4.3	2,418
2	Heterogeneous Catalyst Deactivation and Regeneration: A Review. <i>Catalysts</i> , 2015, 5, 145-269.	3.5	1,213
3	Carbon Deposition in Steam Reforming and Methanation. <i>Catalysis Reviews - Science and Engineering</i> , 1982, 24, 67-112.	12.9	747
4	Temperature-Programmed Hydrogenation (TPH) and in Situ Mössbauer Spectroscopy Studies of Carbonaceous Species on Silica-Supported Iron Fischer-Tropsch Catalysts. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2392-2403.	2.6	206
5	Sintering kinetics of supported metals: new perspectives from a unifying GPLE treatment. <i>Applied Catalysis A: General</i> , 1993, 107, 1-57.	4.3	150
6	Reproducibility of Turnover Rates in Heterogeneous Metal Catalysis: Compilation of Data and Guidelines for Data Analysis. <i>Catalysis Reviews - Science and Engineering</i> , 1997, 39, 49-76.	12.9	125
7	Improved flow technique for measurement of hydrogen chemisorption on metal catalysts. <i>Applied Catalysis</i> , 1988, 39, 77-88.	0.8	116
8	Hydrogen adsorption on supported cobalt, iron, and nickel. <i>Catalysis Letters</i> , 1991, 7, 27-51.	2.6	114
9	Chemical and Thermal Sintering of Supported Metals with Emphasis on Cobalt Catalysts During Fischer-Tropsch Synthesis. <i>Chemical Reviews</i> , 2020, 120, 4455-4533.	47.7	100
10	Reducibility of alumina-supported cobalt Fischer-Tropsch catalysts: Effects of noble metal type, distribution, retention, chemical state, bonding, and influence on cobalt crystallite size. <i>Applied Catalysis A: General</i> , 2012, 449, 69-80.	4.3	75
11	Improved calculations of pore size distribution for relatively large, irregular slit-shaped mesopore structure. <i>Microporous and Mesoporous Materials</i> , 2014, 184, 112-121.	4.4	75
12	Supported Iron Fischer-Tropsch Catalyst: Superior Activity and Stability Using a Thermally Stable Silica-Doped Alumina Support. <i>ACS Catalysis</i> , 2014, 4, 1071-1077.	11.2	72
13	Design, Synthesis, and Catalytic Properties of Silica-Supported, Pt-Promoted Iron Fischer-Tropsch Catalysts. <i>Topics in Catalysis</i> , 2003, 26, 55-71.	2.8	58
14	Kinetics of deactivation by carbon of a cobalt Fischer-Tropsch catalyst: Effects of CO and H ₂ partial pressures. <i>Journal of Catalysis</i> , 2015, 327, 33-47.	6.2	52
15	Synthesis and characterization of silica doped alumina catalyst support with superior thermal stability and unique pore properties. <i>Journal of Porous Materials</i> , 2016, 23, 475-487.	2.6	52
16	Effect of promoter deposition order on platinum-, ruthenium-, or rhenium-promoted cobalt Fischer-Tropsch catalysts. <i>Applied Catalysis A: General</i> , 2014, 482, 275-286.	4.3	45
17	Hydrothermal Stability of Co/SiO ₂ Fischer-Tropsch Synthesis Catalysts. <i>Studies in Surface Science and Catalysis</i> , 2001, 139, 423-430.	1.5	41
18	Nickel-support interactions: their effects on particle morphology, adsorption, and activity selectivity properties. <i>Industrial & Engineering Chemistry Product Research and Development</i> , 1981, 20, 296-300.	0.5	37

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19	Attrition Resistance of Supports for Iron Fischer-Tropsch Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 4001-4008.	3.7	34
20	Effects of Particle Size and Shape on the Performance of a Trickle Fixed-Bed Recycle Reactor for Fischer-Tropsch Synthesis. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 2902-2909.	3.7	34
21	Highly active and stable supported iron Fischer-Tropsch catalysts: Effects of support properties and SiO ₂ stabilizer on catalyst performance. <i>Journal of Catalysis</i> , 2014, 319, 220-231.	6.2	32
22	Advances in Catalyst Deactivation and Regeneration. <i>Catalysts</i> , 2015, 5, 949-954.	3.5	28
23	Gd promotion of Co/SiO ₂ Fischer-Tropsch synthesis catalysts. <i>Catalysis Letters</i> , 2001, 74, 45-48.	2.6	17
24	Effects of Ag promotion and preparation method on cobalt Fischer-Tropsch catalysts supported on silica-modified alumina. <i>Journal of Catalysis</i> , 2018, 362, 118-128.	6.2	16
25	Preparation of an Unsupported Iron Fischer-Tropsch Catalyst by a Simple, Novel, Solvent-Deficient Precipitation (SDP) Method. <i>Energy & Fuels</i> , 2015, 29, 1972-1977.	5.1	13
26	Optimizing preparations of Co Fischer-Tropsch catalysts for stability against sintering. <i>Applied Catalysis A: General</i> , 2020, 602, 117609.	4.3	10
27	Optimizing the synthesis and properties of Al-modified anatase catalyst supports by statistical experimental design. <i>Journal of Porous Materials</i> , 2014, 21, 827-837.	2.6	9
28	Sample introduction in gas chromatography using a coiled wire filament. <i>Journal of Chromatography A</i> , 2009, 1216, 6852-6857.	3.7	7
29	Differentiation of <i>Bacillus</i> endospore species from fatty acid methyl ester biomarkers. <i>Analytical Methods</i> , 2010, 2, 638.	2.7	6
30	Structure Analysis of Al-Modified TiO ₂ Nanocatalyst Supports. <i>Journal of Physical Chemistry C</i> , 2014, 118, 9176-9186.	3.1	6
31	One-step conversion of dipicolinic acid to its dimethyl ester using monomethyl sulfate salts for GC-MS detection of bacterial endospores. <i>Analytical Methods</i> , 2011, 3, 245-258.	2.7	4
32	Effect of Drying Temperature on Iron Fischer-Tropsch Catalysts Prepared by Solvent Deficient Precipitation. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11.	2.7	4