

Morris D Argyle

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

4,117
citations

201575

27
h-index

123376

61
g-index

66
all docs

66
docs citations

66
times ranked

5070
citing authors

#	ARTICLE	IF	CITATIONS
1	Flow-Through Atmospheric Pressure-Atomic Layer Deposition Reactor for Thin-Film Deposition in Capillary Columns. <i>Analytical Chemistry</i> , 2022, 94, 7483-7491.	3.2	6
2	Photoreduction of CO ₂ in the presence of CH ₄ over g-C ₃ N ₄ modified with TiO ₂ nanoparticles at room temperature. <i>Green Energy and Environment</i> , 2021, 6, 938-951.	4.7	26
3	Advance in Using Plasma Technology for Modification or Fabrication of Carbon-Based Materials and Their Applications in Environmental, Material, and Energy Fields. <i>Advanced Functional Materials</i> , 2021, 31, 2006287.	7.8	55
4	A new holder/container with a porous cover for atomic layer deposition on particles, with transport analysis and detailed characterization of the resulting materials. <i>Surface and Interface Analysis</i> , 2021, 53, 156-166.	0.8	1
5	Metal-support interactions in Fe-Cu admixed with SAPO-34 catalysts for highly selective transformation of CO ₂ and H ₂ into lower olefins. <i>Journal of Materials Chemistry A</i> , 2021, 9, 21877-21887.	5.2	11
6	The effects of doping alumina with silica in alumina-supported NiO catalysts for oxidative dehydrogenation of ethane. <i>Microporous and Mesoporous Materials</i> , 2020, 293, 109799.	2.2	15
7	Effects of mixture of CO ₂ /CH ₄ as pyrolysis atmosphere on pine wood pyrolysis products. <i>Renewable Energy</i> , 2020, 162, 1243-1254.	4.3	20
8	Chemical and Thermal Sintering of Supported Metals with Emphasis on Cobalt Catalysts During Fischer-Tropsch Synthesis. <i>Chemical Reviews</i> , 2020, 120, 4455-4533.	23.0	100
9	0.03 V Electrolysis Voltage Driven Hydrazine Assisted Hydrogen Generation on NiCo phosphide Nanowires Supported NiCoHydroxide Nanosheets. <i>ChemElectroChem</i> , 2020, 7, 3089-3097.	1.7	10
10	Mechanism and catalytic performance for direct dimethyl ether synthesis by CO ₂ hydrogenation over CuZnZr/ferrierite hybrid catalyst. <i>Journal of Environmental Sciences</i> , 2020, 92, 106-117.	3.2	37
11	A new approach of reduction of carbon dioxide emission and optimal use of carbon and hydrogen content for the desired syngas production from coal. <i>Journal of Cleaner Production</i> , 2020, 265, 121786.	4.6	12
12	CO ₂ hydrogenation to high-value products via heterogeneous catalysis. <i>Nature Communications</i> , 2019, 10, 5698.	5.8	571
13	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.	3.1	16
14	Effect of different alumina supports on performance of cobalt Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2018, 359, 92-100.	3.1	57
15	Low Temperature Oxidative Dehydrogenation of Ethane by Ce-Modified NiNb Catalysts. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 5234-5240.	1.8	14
16	Commemorative Issue in Honor of Professor Calvin H. Bartholomew's 75th Birthday. <i>Catalysts</i> , 2018, 8, 533.	1.6	0
17	In Situ UV-Visible Assessment of Iron-Based High-Temperature Water-Gas Shift Catalysts Promoted with Lanthana: An Extent of Reduction Study. <i>Catalysts</i> , 2018, 8, 63.	1.6	8
18	A cost-effective approach to realization of the efficient methane chemical-looping combustion by using coal fly ash as a support for oxygen carrier. <i>Applied Energy</i> , 2018, 230, 393-402.	5.1	16

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19	Progress in O ₂ separation for oxy-fuel combustion—A promising way for cost-effective CO ₂ capture: A review. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 188-205.	15.8	135
20	Catalytic gasification of a Powder River Basin coal with CO ₂ and H ₂ O mixtures. <i>Fuel Processing Technology</i> , 2017, 161, 145-154.	3.7	19
21	Effect of Drying Temperature on Iron Fischer-Tropsch Catalysts Prepared by Solvent Deficient Precipitation. <i>Journal of Nanomaterials</i> , 2017, 2017, 1-11.	1.5	4
22	On the kinetics and mechanism of Fischer—Tropsch synthesis on a highly active iron catalyst supported on silica-stabilized alumina. <i>Catalysis Today</i> , 2016, 261, 67-74.	2.2	14
23	Advances in Catalyst Deactivation and Regeneration. <i>Catalysts</i> , 2015, 5, 949-954.	1.6	28
24	Heterogeneous Catalyst Deactivation and Regeneration: A Review. <i>Catalysts</i> , 2015, 5, 145-269.	1.6	1,213
25	CO ₂ gasification of Powder River Basin coal catalyzed by a cost-effective and environmentally friendly iron catalyst. <i>Applied Energy</i> , 2015, 145, 295-305.	5.1	74
26	An optimized simulation model for iron-based Fischer—Tropsch catalyst design: Transfer limitations as functions of operating and design conditions. <i>Chemical Engineering Journal</i> , 2015, 263, 268-279.	6.6	33
27	Field Application of Accelerated Mineral Carbonation. <i>Minerals (Basel, Switzerland)</i> , 2014, 4, 191-207.	0.8	23
28	Catalytic CH ₄ reforming with CO ₂ over activated carbon based catalysts. <i>Applied Catalysis A: General</i> , 2014, 469, 387-397.	2.2	59
29	Cobalt Fischer—Tropsch Catalyst Deactivation Modeled Using Generalized Power Law Expressions. <i>Topics in Catalysis</i> , 2014, 57, 415-429.	1.3	50
30	Characterization of the mechanism of gasification of a powder river basin coal with a composite catalyst for producing desired syngases and liquids. <i>Applied Catalysis A: General</i> , 2014, 475, 116-126.	2.2	23
31	A kinetic study on the structural and functional roles of lanthana in iron-based high temperature water—gas shift catalysts. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 7306-7317.	3.8	13
32	Effects of an environmentally-friendly, inexpensive composite iron—sodium catalyst on coal gasification. <i>Fuel</i> , 2014, 116, 341-349.	3.4	63
33	Effects of preparation variables on an alumina-supported FeCuK Fischer—Tropsch catalyst. <i>Catalysis Science and Technology</i> , 2014, 4, 4289-4300.	2.1	15
34	The effects of bimetallic Co—Ru nanoparticles on Co/RuO ₂ /Al ₂ O ₃ catalysts for the water gas shift and methanation. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 14808-14816.	3.8	19
35	Pyrolysis characteristics and kinetics of residue from China Shenhua industrial direct coal liquefaction plant. <i>Thermochimica Acta</i> , 2014, 589, 1-10.	1.2	55
36	H ₂ and CO _x generation from coal gasification catalyzed by a cost-effective iron catalyst. <i>Applied Catalysis A: General</i> , 2013, 464-465, 207-217.	2.2	50

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37	Catalytic regeneration of mercury sorbents. <i>Journal of Hazardous Materials</i> , 2013, 262, 642-648.	6.5	14
38	Catalytic gasification of a Powder River Basin coal. <i>Fuel</i> , 2013, 103, 161-170.	3.4	73
39	Adsorption of Mercury with Modified Thief Carbons. <i>Journal of Environmental Engineering, ASCE</i> , 2012, 138, 386-391.	0.7	9
40	Desorption Kinetics of the Monoethanolamine/Macroporous TiO ₂ -Based CO ₂ Separation Process. <i>Energy & Fuels</i> , 2011, 25, 2988-2996.	2.5	29
41	Supported Monoethanolamine for CO ₂ Separation. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 11343-11349.	1.8	24
42	Simultaneous capture and mineralization of coal combustion flue gas carbon dioxide (CO ₂). <i>Energy Procedia</i> , 2011, 4, 1574-1583.	1.8	59
43	High temperature water gas shift catalysts with alumina. <i>Applied Catalysis A: General</i> , 2010, 379, 15-23.	2.2	46
44	Application of Green Chemistry in Energy Production. <i>Journal of Physical Chemistry A</i> , 2010, 114, 3743-3743.	1.1	3
45	Energy efficiency of hydrogen sulfide decomposition in a pulsed corona discharge reactor. <i>Chemical Engineering Science</i> , 2009, 64, 4826-4834.	1.9	35
46	Progresses Made in Coal-Based Energy and Fuel Production. <i>Energy & Fuels</i> , 2009, 23, 4709-4709.	2.5	2
47	Optical emission study of nonthermal plasma confirms reaction mechanisms involving neutral rather than charged species. <i>Journal of Applied Physics</i> , 2007, 101, 033303.	1.1	25
48	Production of hydrogen and sulfur from hydrogen sulfide in a nonthermal-plasma pulsed corona discharge reactor. <i>Chemical Engineering Science</i> , 2007, 62, 2216-2227.	1.9	75
49	Effect of CO on NO and N ₂ O conversions in nonthermal argon plasma. <i>Journal of Applied Physics</i> , 2006, 99, 113302.	1.1	21
50	Methane conversion in pulsed corona discharge reactors. <i>Chemical Engineering Journal</i> , 2006, 125, 67-79.	6.6	59
51	The effect of gas pressure on NO conversion energy efficiency in nonthermal nitrogen plasma. <i>Chemical Engineering Science</i> , 2005, 60, 1927-1937.	1.9	14
52	Effect of reactor configuration on nitric oxide conversion in nitrogen plasma. <i>AIChE Journal</i> , 2005, 51, 1813-1821.	1.8	19
53	Effect of oxygen on nonthermal plasma reactions of nitrogen oxides in nitrogen. <i>AIChE Journal</i> , 2005, 51, 1800-1812.	1.8	87
54	Effect of CO ₂ on Nonthermal-Plasma Reactions of Nitrogen Oxides in N ₂ . 1. PPM-Level Concentrations. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3925-3934.	1.8	20

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55	Effect of CO ₂ on Nonthermal-Plasma Reactions of Nitrogen Oxides in N ₂ . 2. Percent-Level Concentrations. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 3935-3946.	1.8	11
56	In situ UV-Visible Spectroscopic Measurements of Kinetic Parameters and Active Sites for Catalytic Oxidation of Alkanes on Vanadium Oxides. <i>Journal of Physical Chemistry B</i> , 2005, 109, 2414-2420.	1.2	42
57	Extent of Reduction of Vanadium Oxides during Catalytic Oxidation of Alkanes Measured by in-Situ UV-Visible Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2004, 108, 2345-2353.	1.2	84
58	N Atom Radicals and N ₂ (A ⁺) Found To Be Responsible for Nitrogen Oxides Conversion in Nonthermal Nitrogen Plasma. <i>Industrial & Engineering Chemistry Research</i> , 2004, 43, 5077-5088.	1.8	51
59	Effects of O ₂ Concentration on the Rate and Selectivity in Oxidative Dehydrogenation of Ethane Catalyzed by Vanadium Oxide: Implications for O ₂ Staging and Membrane Reactors. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 5462-5466.	1.8	16
60	In situ UV-visible assessment of extent of reduction during oxidation reactions on oxide catalysts. <i>Chemical Communications</i> , 2003, , 2082.	2.2	20
61	Ethane Oxidative Dehydrogenation Pathways on Vanadium Oxide Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5421-5427.	1.2	114
62	Effect of Catalyst Structure on Oxidative Dehydrogenation of Ethane and Propane on Alumina-Supported Vanadia. <i>Journal of Catalysis</i> , 2002, 208, 139-149.	3.1	298
63	Results And Analysis Of A Required Senior Exam To Assess Learning Of Course Competencies.. , 0, , .		0
64	A New Assessment Method to Easily Identify Areas Needing Improvement in Course-level Learning Outcomes. , 0, , .		1
65	Developing and Assessing Leadership in Engineering Students. , 0, , .		1