

# Morris D Argyle

## List of Publications by Year in descending order

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65  
papers

4,117  
citations

201674

27  
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123424

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66  
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66  
docs citations

66  
times ranked

5070  
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterogeneous Catalyst Deactivation and Regeneration: A Review. <i>Catalysts</i> , 2015, 5, 145-269.	3.5	1,213
2	CO <sub>2</sub> hydrogenation to high-value products via heterogeneous catalysis. <i>Nature Communications</i> , 2019, 10, 5698.	12.8	571
3	Effect of Catalyst Structure on Oxidative Dehydrogenation of Ethane and Propane on Alumina-Supported Vanadia. <i>Journal of Catalysis</i> , 2002, 208, 139-149.	6.2	298
4	Progress in O <sub>2</sub> separation for oxy-fuel combustion—A promising way for cost-effective CO <sub>2</sub> capture: A review. <i>Progress in Energy and Combustion Science</i> , 2018, 67, 188-205.	31.2	135
5	Ethane Oxidative Dehydrogenation Pathways on Vanadium Oxide Catalysts. <i>Journal of Physical Chemistry B</i> , 2002, 106, 5421-5427.	2.6	114
6	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
7	Effect of oxygen on nonthermal plasma reactions of nitrogen oxides in nitrogen. <i>AIChE Journal</i> , 2005, 51, 1800-1812.	3.6	87
8	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.	2.6	84
9	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.	3.8	75
10	CO <sub>2</sub> gasification of Powder River Basin coal catalyzed by a cost-effective and environmentally friendly iron catalyst. <i>Applied Energy</i> , 2015, 145, 295-305.	10.1	74
11	Catalytic gasification of a Powder River Basin coal. <i>Fuel</i> , 2013, 103, 161-170.	6.4	73
12	Effects of an environmentally-friendly, inexpensive composite iron–sodium catalyst on coal gasification. <i>Fuel</i> , 2014, 116, 341-349.	6.4	63
13	Methane conversion in pulsed corona discharge reactors. <i>Chemical Engineering Journal</i> , 2006, 125, 67-79.	12.7	59
14	Simultaneous capture and mineralization of coal combustion flue gas carbon dioxide (CO <sub>2</sub> ). <i>Energy Procedia</i> , 2011, 4, 1574-1583.	1.8	59
15	Catalytic CH <sub>4</sub> reforming with CO <sub>2</sub> over activated carbon based catalysts. <i>Applied Catalysis A: General</i> , 2014, 469, 387-397.	4.3	59
16	Effect of different alumina supports on performance of cobalt Fischer-Tropsch catalysts. <i>Journal of Catalysis</i> , 2018, 359, 92-100.	6.2	57
17	Pyrolysis characteristics and kinetics of residue from China Shenhua industrial direct coal liquefaction plant. <i>Thermochimica Acta</i> , 2014, 589, 1-10.	2.7	55
18	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.	14.9	55

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19	N Atom Radicals and N <sub>2</sub> (A <sup>3+</sup> u+) Found To Be Responsible for Nitrogen Oxides Conversion in Nonthermal Nitrogen Plasma. <i>Industrial &amp; Engineering Chemistry Research</i> , 2004, 43, 5077-5088.	3.7	51
20	H <sub>2</sub> and CO <sub>x</sub> generation from coal gasification catalyzed by a cost-effective iron catalyst. <i>Applied Catalysis A: General</i> , 2013, 464-465, 207-217.	4.3	50
21	Cobalt Fischer-Tropsch Catalyst Deactivation Modeled Using Generalized Power Law Expressions. <i>Topics in Catalysis</i> , 2014, 57, 415-429.	2.8	50
22	High temperature water gas shift catalysts with alumina. <i>Applied Catalysis A: General</i> , 2010, 379, 15-23.	4.3	46
23	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.	2.6	42
24	Mechanism and catalytic performance for direct dimethyl ether synthesis by CO <sub>2</sub> hydrogenation over CuZnZr/ferrierite hybrid catalyst. <i>Journal of Environmental Sciences</i> , 2020, 92, 106-117.	6.1	37
25	Energy efficiency of hydrogen sulfide decomposition in a pulsed corona discharge reactor. <i>Chemical Engineering Science</i> , 2009, 64, 4826-4834.	3.8	35
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.	12.7	33
27	Desorption Kinetics of the Monoethanolamine/Macroporous TiO <sub>2</sub> -Based CO <sub>2</sub> Separation Process. <i>Energy &amp; Fuels</i> , 2011, 25, 2988-2996.	5.1	29
28	Advances in Catalyst Deactivation and Regeneration. <i>Catalysts</i> , 2015, 5, 949-954.	3.5	28
29	Photoreduction of CO <sub>2</sub> in the presence of CH <sub>4</sub> over g-C <sub>3</sub> N <sub>4</sub> modified with TiO <sub>2</sub> nanoparticles at room temperature. <i>Green Energy and Environment</i> , 2021, 6, 938-951.	8.7	26
30	Optical emission study of nonthermal plasma confirms reaction mechanisms involving neutral rather than charged species. <i>Journal of Applied Physics</i> , 2007, 101, 033303.	2.5	25
31	Supported Monoethanolamine for CO <sub>2</sub> Separation. <i>Industrial &amp; Engineering Chemistry Research</i> , 2011, 50, 11343-11349.	3.7	24
32	Field Application of Accelerated Mineral Carbonation. <i>Minerals (Basel, Switzerland)</i> , 2014, 4, 191-207.	2.0	23
33	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.	4.3	23
34	Effect of CO on NO and N <sub>2</sub> O conversions in nonthermal argon plasma. <i>Journal of Applied Physics</i> , 2006, 99, 113302.	2.5	21
35	In situ UV-visible assessment of extent of reduction during oxidation reactions on oxide catalysts. <i>Chemical Communications</i> , 2003, , 2082.	4.1	20
36	Effect of CO <sub>2</sub> on Nonthermal-Plasma Reactions of Nitrogen Oxides in N <sub>2</sub> . 1. PPM-Level Concentrations. <i>Industrial &amp; Engineering Chemistry Research</i> , 2005, 44, 3925-3934.	3.7	20

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37	Effects of mixture of CO <sub>2</sub> /CH <sub>4</sub> as pyrolysis atmosphere on pine wood pyrolysis products. Renewable Energy, 2020, 162, 1243-1254.	8.9	20
38	Effect of reactor configuration on nitric oxide conversion in nitrogen plasma. AIChE Journal, 2005, 51, 1813-1821.	3.6	19
39	The effects of bimetallic Co–Ru nanoparticles on Co/RuO <sub>2</sub> /Al <sub>2</sub> O <sub>3</sub> catalysts for the water gas shift and methanation. International Journal of Hydrogen Energy, 2014, 39, 14808-14816.	7.1	19
40	Catalytic gasification of a Powder River Basin coal with CO <sub>2</sub> and H <sub>2</sub> O mixtures. Fuel Processing Technology, 2017, 161, 145-154.	7.2	19
41	Effects of O <sub>2</sub> Concentration on the Rate and Selectivity in Oxidative Dehydrogenation of Ethane Catalyzed by Vanadium Oxide: Implications for O <sub>2</sub> Staging and Membrane Reactors. Industrial & Engineering Chemistry Research, 2003, 42, 5462-5466.	3.7	16
42	Effects of Ag promotion and preparation method on cobalt Fischer-Tropsch catalysts supported on silica-modified alumina. Journal of Catalysis, 2018, 362, 118-128.	6.2	16
43	A cost-effective approach to realization of the efficient methane chemical-looping combustion by using coal fly ash as a support for oxygen carrier. Applied Energy, 2018, 230, 393-402.	10.1	16
44	Effects of preparation variables on an alumina-supported FeCuK Fischer–Tropsch catalyst. Catalysis Science and Technology, 2014, 4, 4289-4300.	4.1	15
45	The effects of doping alumina with silica in alumina-supported NiO catalysts for oxidative dehydrogenation of ethane. Microporous and Mesoporous Materials, 2020, 293, 109799.	4.4	15
46	The effect of gas pressure on NO conversion energy efficiency in nonthermal nitrogen plasma. Chemical Engineering Science, 2005, 60, 1927-1937.	3.8	14
47	Catalytic regeneration of mercury sorbents. Journal of Hazardous Materials, 2013, 262, 642-648.	12.4	14
48	On the kinetics and mechanism of Fischer–Tropsch synthesis on a highly active iron catalyst supported on silica-stabilized alumina. Catalysis Today, 2016, 261, 67-74.	4.4	14
49	Low Temperature Oxidative Dehydrogenation of Ethane by Ce-Modified NiNb Catalysts. Industrial & Engineering Chemistry Research, 2018, 57, 5234-5240.	3.7	14
50	A kinetic study on the structural and functional roles of lanthana in iron-based high temperature water–gas shift catalysts. International Journal of Hydrogen Energy, 2014, 39, 7306-7317.	7.1	13
51	A new approach of reduction of carbon dioxide emission and optimal use of carbon and hydrogen content for the desired syngas production from coal. Journal of Cleaner Production, 2020, 265, 121786.	9.3	12
52	Effect of CO <sub>2</sub> on Nonthermal-Plasma Reactions of Nitrogen Oxides in N <sub>2</sub> . 2. Percent-Level Concentrations. Industrial & Engineering Chemistry Research, 2005, 44, 3935-3946.	3.7	11
53	Metal–support interactions in Fe–Cu–K admixed with SAPO-34 catalysts for highly selective transformation of CO <sub>2</sub> and H <sub>2</sub> into lower olefins. Journal of Materials Chemistry A, 2021, 9, 21877-21887.	10.3	11
54	0.03 V Electrolysis Voltage Driven Hydrazine Assisted Hydrogen Generation on NiCo phosphide Nanowires Supported NiCo Hydroxide Nanosheets. ChemElectroChem, 2020, 7, 3089-3097.	3.4	10

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55	Adsorption of Mercury with Modified Thief Carbons. Journal of Environmental Engineering, ASCE, 2012, 138, 386-391.	1.4	9
56	In Situ UV-Visible Assessment of Iron-Based High-Temperature Water-Gas Shift Catalysts Promoted with Lanthana: An Extent of Reduction Study. Catalysts, 2018, 8, 63.	3.5	8
57	Flow-Through Atmospheric Pressure-Atomic Layer Deposition Reactor for Thin-Film Deposition in Capillary Columns. Analytical Chemistry, 2022, 94, 7483-7491.	6.5	6
58	Effect of Drying Temperature on Iron Fischer-Tropsch Catalysts Prepared by Solvent Deficient Precipitation. Journal of Nanomaterials, 2017, 2017, 1-11.	2.7	4
59	Application of Green Chemistry in Energy Production. Journal of Physical Chemistry A, 2010, 114, 3743-3743.	2.5	3
60	Progresses Made in Coal-Based Energy and Fuel Production. Energy & Fuels, 2009, 23, 4709-4709.	5.1	2
61	A new holder/container with a porous cover for atomic layer deposition on particles, with transport analysis and detailed characterization of the resulting materials. Surface and Interface Analysis, 2021, 53, 156-166.	1.8	1
62	A New Assessment Method to Easily Identify Areas Needing Improvement in Course-level Learning Outcomes. , 0, , .		1
63	Developing and Assessing Leadership in Engineering Students. , 0, , .		1
64	Commemorative Issue in Honor of Professor Calvin H. Bartholomew's 75th Birthday. Catalysts, 2018, 8, 533.	3.5	0
65	Results And Analysis Of A Required Senior Exam To Assess Learning Of Course Competencies.. , 0, , .		0