Anne M Gaffney

List of Publications by Year
in descending order

33 papers	995 citations	471509 17 h-index	414414 32 g-index
37 all docs	37 docs citations	37 times ranked	974 citing authors

#	Article	IF	Citations
1	Recent Advances in Intensified Ethylene Productionâ€"A Review. ACS Catalysis, 2019, 9, 8592-8621.	11.2	227
2	Oxidative coupling of methane over sodium promoted praseodymium oxide. Journal of Catalysis, 1988, 114, 422-432.	6.2	92
3	Catalytic oxidative coupling of methane over sodium-promoted Mn/SiO2 and Mn/MgO. Catalysis Today, 1988, 3, 127-135.	4.4	80
4	Ethylene production via Oxidative Dehydrogenation of Ethane using M1 catalyst. Catalysis Today, 2017, 285, 159-165.	4.4	55
5	A Study of the Surface Region of the Moâ^'Vâ^'Teâ^'O Catalysts for Propane Oxidation to Acrylic Acid. Journal of Physical Chemistry B, 2005, 109, 10234-10242.	2.6	53
6	Roles of Surface Te, Nb, and Sb Oxides in Propane Oxidation to Acrylic Acid over Bulk Orthorhombic Moâ^'Vâ^'O Phase. Journal of Physical Chemistry B, 2005, 109, 24046-24055.	2.6	48
7	Surface active sites present in the orthorhombic M1 phases: low energy ion scattering study of methanol and allyl alcohol chemisorption over Moâ€"Vâ€"Teâ€"Nbâ€"O and Moâ€"Vâ€"O catalysts. Topics in Catalysis, 2006, 38, 41-50.	2.8	37
8	Perspectives of spray pyrolysis for facile synthesis of catalysts and thin films: An introduction and summary of recent directions. Catalysis Today, 2014, 238, 87-94.	4.4	37
9	Probe Molecule Chemisorptionâ^'Low Energy Ion Scattering Study of Surface Active Sites Present in the Orthorhombic Moâ^'Vâ^'(Teâ^'Nb)â^'O Catalysts for Propane (Amm)oxidation. Journal of Physical Chemistry B, 2006, 110, 6129-6140.	2.6	36
10	Process economics and safety considerations for the oxidative dehydrogenation of ethane using the M1 catalyst. Catalysis Today, 2017, 298, 138-144.	4.4	34
11	Coke formation on ZSM-5 zeolites: Evidence from NMR spectrometry of sorbed xenon gas. Journal of Catalysis, 1991, 128, 520-525.	6.2	31
12	Techno-Economic Analysis of Oxidative Dehydrogenation Options. Topics in Catalysis, 2016, 59, 1573-1579.	2.8	31
13	New molecular basket sorbents for CO2 capture based on mesoporous sponge-like TUD-1. Catalysis Today, 2014, 238, 95-102.	4.4	28
14	Natural Gas: Fuel or Feedstock. Studies in Surface Science and Catalysis, 1994, 81, 93-101.	1.5	24
15	Needle in a haystack catalysis. Applied Catalysis A: General, 2008, 341, 86-92.	4.3	20
16	Characterization and catalytic studies of PVD synthesized Mo/V/Nb/Te oxide catalysts. Journal of Catalysis, 2005, 229, 12-23.	6.2	18
17	Characterization of MoVTeNbOx Catalysts during Oxidation Reactions Using In Situ/Operando Techniques: A Review. Catalysts, 2017, 7, 109.	3.5	17
18	Evaluation and analysis of ethylene production using oxidative dehydrogenation. Catalysis Today, 2021, 369, 203-209.	4.4	16

#	Article	IF	Citations
19	Heterogeneous catalyst for alcohol oxycarbonylation to dialkyl oxalates. Journal of Catalysis, 1984, 90, 261-269.	6.2	15
20	TAP Vacuum Pulse-Response and Normal-Pressure Studies of Propane Oxidation over MoVTeNb Oxide Catalysts. Industrial & Engineering Chemistry Research, 2005, 44, 6310-6319.	3.7	15
21	Preparation of Multicomponent Metal Oxides Using Nozzle Spray and Microwaves. Advanced Functional Materials, 2007, 17, 2572-2579.	14.9	14
22	Combining TAP-2 experiments with atomic beam deposition of Pd on quartz particles. Catalysis Today, 2007, 121, 170-186.	4.4	12
23	Identification of opportunities for integrating chemical processes for carbon (dioxide) utilization to nuclear power plants. Renewable and Sustainable Energy Reviews, 2021, 150, 111450.	16.4	10
24	Spinel oxides as coke-resistant supports for NiO-based oxygen carriers in chemical looping combustion of methane. Catalysis Today, 2023, 424, 112462.	4.4	9
25	Oxidative Coupling of Methane to Higher Hydrocarbons Over Sodium-Promoted Manganese Oxide on Silica and Magnesia. Studies in Surface Science and Catalysis, 1988, 38, 523-529.	1.5	7
26	Amine base promoted .beta.-elimination in .alpha.-bromo ester substrates. Evidence for permutational isomerism in the TBP carbon intermediate. Journal of Organic Chemistry, 1983, 48, 4509-4513.	3.2	6
27	Toward Concurrent Engineering of the M1-Based Catalytic Systems for Oxidative Dehydrogenation (ODH) of Alkanes. Topics in Catalysis, 2020, 63, 1667-1681.	2.8	6
28	Bromide ion promoted .beta.-elimination in .alpha.-bromo ester substrates. Evidence for an intermediate in the E2C reaction. Journal of Organic Chemistry, 1983, 48, 4502-4508.	3.2	5
29	The New ChemPren Process for the Conversion of Waste Plastic to Chemicals and Fuel. Topics in Catalysis, 2014, 57, 1412-1418.	2.8	5
30	Recent advances in fuel processing catalysts for fuel cell applications. Catalysis Today, 2005, 99, 255-256.	4.4	3
31	Techniques for Fabricating Nanoscale Catalytic Circuits. Topics in Catalysis, 2008, 49, 167-177.	2.8	3
32	A novel process for the upcycling ofÂwaste polyolefins to high-value fuels and chemicals. Chem Catalysis, 2021, 1, 253-254.	6.1	1
33	Idaho National Laboratoryâ€™s Advanced Design and Manufacturing Initiative. Catalysis Today, 2021, 363, 67-72.	4.4	0