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List of Publications by Year
in descending order

80 papers	2,939 citations	159525 30 h-index	168321 53 g-index
80 all docs	80 docs citations	80 times ranked	2791 citing authors

#	Article	IF	Citations
1	Isotopic and in situ DRIFTS study of the CO2 methanation mechanism using Ni/CeO2 and Ni/Al2O3 catalysts. Applied Catalysis B: Environmental, 2020, 265, 118538.	10.8	199
2	Ni catalysts with La as promoter supported over Y- and BETA- zeolites for CO2 methanation. Applied Catalysis B: Environmental, 2018, 238, 393-403.	10.8	175
3	Lithium Bis(fluorosulfonyl)imide/Poly(ethylene oxide) Polymer Electrolyte for All Solid-State Liâ€“S Cell. Journal of Physical Chemistry Letters, 2017, 8, 1956-1960.	2.1	166
4	Reviewâ€”Solid Electrolytes for Safe and High Energy Density Lithium-Sulfur Batteries: Promises and Challenges. Journal of the Electrochemical Society, 2018, 165, A6008-A6016.	1.3	146
5	Enhancement of the catalytic oxidation of hydrogen-lean chlorinated VOCs in the presence of hydrogen-supplying compounds. Applied Catalysis B: Environmental, 2000, 24, 33-43.	10.8	132
6	Effect of metal loading on the CO2 methanation: A comparison between alumina supported Ni and Ru catalysts. Catalysis Today, 2020, 356, 419-432.	2.2	111
7	Ni loading effects on dual function materials for capture and in-situ conversion of CO2 to CH4 using CaO or Na2CO3. Journal of CO2 Utilization, 2019, 34, 576-587.	3.3	109
8	Polymer-Rich Composite Electrolytes for All-Solid-State Liâ€“S Cells. Journal of Physical Chemistry Letters, 2017, 8, 3473-3477.	2.1	106
9	Catalytic oxidation of trichloroethylene over Fe-ZSM-5: Influence of the preparation method on the iron species and the catalytic behavior. Applied Catalysis B: Environmental, 2016, 180, 210-218.	10.8	101
10	Mechanism of the CO2 storage and in situ hydrogenation to CH4. Temperature and adsorbent loading effects over Ru-CaO/Al2O3 and Ru-Na2CO3/Al2O3 catalysts. Applied Catalysis B: Environmental, 2019, 256, 117845.	10.8	100
11	Stability of protonic zeolites in the catalytic oxidation of chlorinated VOCs (1,2-dichloroethane). Applied Catalysis B: Environmental, 2009, 88, 533-541.	10.8	95
12	Kinetics of the Low-Temperature WGS Reaction over a CuO/ZnO/Al2O3 Catalyst. Industrial & Engineering Chemistry Research, 2005, 44, 41-50.	1.8	90
13	State of the art in catalytic oxidation of chlorinated volatile organic compounds. Chemical Papers, 2014, 68, .	1.0	85
14	Deactivation of H-zeolites during catalytic oxidation of trichloroethylene. Journal of Catalysis, 2012, 296, 165-174.	3.1	70
15	Pervaporation of ethanolâ€”water mixtures through poly(1-trimethylsilyl-1-propyne) (PTMSP) membranes. Desalination, 2002, 149, 61-65.	4.0	59
16	Influence of water and hydrocarbon processed in feedstream on the three-way behaviour of platinum-alumina catalysts. Applied Catalysis B: Environmental, 1997, 12, 61-79.	10.8	58
17	Optimization of process parameters on the extrusion of honeycomb shaped monolith of H-ZSM-5 zeolite. Chemical Engineering Journal, 2010, 162, 415-423.	6.6	57
18	The reaction pathway and kinetic mechanism of the catalytic oxidation of gaseous lean TCE on Pd/alumina catalysts. Journal of Catalysis, 2003, 214, 130-135.	3.1	47

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19	Tailoring dual redox-acid functionalities in VOx/TiO2/ZSM5 catalyst for simultaneous abatement of PCDD/Fs and NOx from municipal solid waste incineration. Applied Catalysis B: Environmental, 2017, 205, 310-318.	10.8	47
20	Kinetic considerations of three-way catalysis in automobile exhaust converters. Applied Catalysis B: Environmental, 2001, 32, 243-256.	10.8	45
21	Ni/LnOx Catalysts (Ln=La, Ce or Pr) for CO₂ Methanation. ChemCatChem, 2019, 11, 810-819.	1.8	44
22	Metal-loaded ZSM5 zeolites for catalytic purification of dioxin/furans and NO containing exhaust gases from MWI plants: Effect of different metal cations. Applied Catalysis B: Environmental, 2016, 184, 238-245.	10.8	43
23	Kinetics of Pd/alumina catalysed 1,2-dichloroethane gas-phase oxidation. Chemical Engineering Science, 2006, 61, 3564-3576.	1.9	41
24	Role of surface vanadium oxide coverage support on titania for the simultaneous removal of o-dichlorobenzene and NOx from waste incinerator flue gas. Catalysis Today, 2015, 254, 2-11.	2.2	39
25	Catalytic activity of regenerated catalyst after the oxidation of 1,2-dichloroethane and trichloroethylene. Chemical Engineering Journal, 2014, 241, 200-206.	6.6	36
26	Effect of vanadia loading on acidic and redox properties of VOx/TiO2 for the simultaneous abatement of PCDD/Fs and NOx. Journal of Industrial and Engineering Chemistry, 2020, 81, 440-450.	2.9	36
27	Effect of operation conditions in the pervaporation of ethanol-water mixtures with poly(1-trimethylsilyl-1-propyne) membranes. Journal of Applied Polymer Science, 2004, 94, 1395-1403.	1.3	33
28	Steady-state NH 3 -SCR global model and kinetic parameter estimation for NO x removal in diesel engine exhaust aftertreatment with Cu/chabazite. Catalysis Today, 2017, 296, 95-104.	2.2	32
29	Strategies to enhance the stability of h-bea zeolite in the catalytic oxidation of Cl-VOCs: 1,2-Dichloroethane. Catalysis Today, 2013, 213, 192-197.	2.2	31
30	Catalytic oxidation of trichloroethylene over Fe-zeolites. Catalysis Today, 2011, 176, 357-360.	2.2	30
31	Design of active sites in Ni/CeO2 catalysts for the methanation of CO2: tailoring the Ni-CeO2 contact. Applied Materials Today, 2020, 19, 100591.	2.3	30
32	Study on the promotional effect of lanthana addition on the performance of hydroxyapatite-supported Ni catalysts for the CO2 methanation reaction. Applied Catalysis B: Environmental, 2022, 314, 121500.	10.8	29
33	Understanding the Role of Nanoâ€Aluminum Oxide in Allâ€Solidâ€State Lithiumâ€Sulfur Batteries. ChemElectroChem, 2019, 6, 326-330.	1.7	28
34	Tuning basicity of dual function materials widens operation temperature window for efficient CO2 adsorption and hydrogenation to CH4. Journal of CO2 Utilization, 2022, 58, 101922.	3.3	26
35	Performance of NO storageâ€“reduction catalyst in the temperatureâ€“reductant concentration domain by response surface methodology. Chemical Engineering Journal, 2011, 169, 58-67.	6.6	25
36	On the effect of reduction and ageing on the TWC activity of Pd/Ce0.68Zr0.32O2 under simulated automotive exhausts. Catalysis Today, 2012, 180, 88-95.	2.2	25

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37	Enhancing the CO2 methanation activity of Î³-Al2O3 supported mono- and bi-metallic catalysts prepared by glycerol assisted impregnation. Applied Catalysis B: Environmental, 2021, 296, 120322.	10.8	25
38	Alternate cycles of CO₂ storage and in situ hydrogenation to CH₄ on Niâ€“Na₂CO₃/Al₂O₃: influence of promoter addition and calcination temperature. Sustainable Energy and Fuels, 2021, 5, 1194-1210.	2.5	24
39	Preparation, activity and durability of promoted platinum catalysts for automotive exhaust control. Applied Catalysis B: Environmental, 1994, 3, 191-204.	10.8	23
40	Pervaporation of 50 wt % ethanolâ€“water mixtures with poly(1-trimethylsilyl-1-propyne) membranes at high temperatures. Journal of Applied Polymer Science, 2007, 103, 2843-2848.	1.3	23
41	Influence of the washcoat characteristics on NH3-SCR behavior of Cu-zeolite monoliths. Catalysis Today, 2013, 216, 82-89.	2.2	22
42	Modeling the CO2 capture and in situ conversion to CH4 on dual function Ru-Na2CO3/Al2O3 catalyst. Journal of CO2 Utilization, 2020, 42, 101351.	3.3	22
43	Optimal inlet temperature trajectories for adiabatic packed reactors with catalyst decay. Chemical Engineering Science, 1992, 47, 1495-1501.	1.9	18
44	Kinetics of the selective hydrogenation of phenol to cyclohexanone over a Pd-alumina catalyst. Reaction Kinetics and Catalysis Letters, 1986, 32, 505-512.	0.6	17
45	Screening of Feâ€“Cu-Zeolites Prepared by Different Methodology for Application in NSRâ€“SCR Combined DeNOx Systems. Topics in Catalysis, 2013, 56, 215-221.	1.3	17
46	Intrinsic kinetics of CO2 methanation on low-loaded Ni/Al2O3 catalyst: Mechanism, model discrimination and parameter estimation. Journal of CO2 Utilization, 2022, 57, 101888.	3.3	17
47	Kinetics of the Catalytic Oxidation of Lean Trichloroethylene in Air over Pd/Alumina. Industrial & Engineering Chemistry Research, 2003, 42, 6007-6011.	1.8	16
48	Design of CeO₂-supported LaNiO₃perovskites as precursors of highly active catalysts for CO₂methanation. Catalysis Science and Technology, 2021, 11, 6065-6079.	2.1	16
49	Improvements in batch distillation startup. Industrial & Engineering Chemistry Research, 1987, 26, 745-750.	1.8	14
50	Pervaporation performance of PTMSP membranes at high temperatures. Journal of Applied Polymer Science, 2003, 90, 2255-2259.	1.3	14
51	Applicability of LaNiO3-derived catalysts as dual function materials for CO2 capture and in-situ conversion to methane. Fuel, 2022, 320, 123842.	3.4	14
52	Kinetics, Model Discrimination, and Parameters Estimation of CO₂ Methanation on Highly Active Ni/CeO₂ Catalyst. Industrial & Engineering Chemistry Research, 2022, 61, 10419-10435.	1.8	14
53	The effect of deactivation of Hâ€zeolites on product selectivity in the oxidation of chlorinated <scp>VOCs</scp> (trichloroethylene). Journal of Chemical Technology and Biotechnology, 2016, 91, 318-326.	1.6	13
54	Deep catalytic oxidation of chlorinated VOC mixtures from groundwater stripping emissions. Studies in Surface Science and Catalysis, 2000, 130, 1229-1234.	1.5	12

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55	Simulation-based optimization of cycle timing for CO2 capture and hydrogenation with dual function catalyst. Catalysis Today, 2022, 394-396, 314-324.	2.2	11
56	Adsorption studies of different reagents on supported palladium catalysts. Applied Catalysis, 1990, 60, 1-12.	1.1	8
57	Optimal Operating Conditions of Coupled Sequential NOx Storage/Reduction and Cu/CHA Selective Catalytic Reduction Monoliths. Topics in Catalysis, 2017, 60, 30-39.	1.3	8
58	Optimal temperature policies by distributed control for reactors with lhhw catalyst deactivation. Canadian Journal of Chemical Engineering, 1987, 65, 36-41.	0.9	7
59	Study of the Pretreatment Chemistry and Thermal Stability of Zirconia Supported Ruâ€“Pt Catalysts. Journal of Catalysis, 1999, 187, 24-29.	3.1	6
60	Aging studies on dual function materials Ru/Ni-Na/Ca-Al2O3 for CO2 adsorption and hydrogenation to CH4. Journal of Environmental Chemical Engineering, 2022, 10, 107951.	3.3	6
61	Analysis of the lumped and distributed optimal temperature trajectories for packed bed reactors with concentration dependent catalyst deactivation. Canadian Journal of Chemical Engineering, 1990, 68, 860-866.	0.9	5
62	Behavior of highly dispersed platinum catalysts in liquid-phase hydrogenations. Industrial & Engineering Chemistry Research, 1993, 32, 1035-1040.	1.8	5
63	Prediction of lifetime of poly(2-hexyne) films through the kinetics of thermooxidative degradation from thermogravimetric and molecular weight data. Chemical Engineering Science, 1996, 51, 1113-1120.	1.9	5
64	Kinetics of weight loss and chain scission in the thermooxidative degradation of poly[1-(trimethylsilyl)-1-propyne] films. Journal of Polymer Science Part A, 1999, 37, 4309-4317.	2.5	5
65	Performance of Cu-ZSM-5 in a Coupled Monolith NSR-SCR System for NOx Removal in Lean-Burn Engine Exhaust. Topics in Catalysis, 2016, 59, 259-267.	1.3	5
66	Modeling the degradation kinetics of poly(2-hexyne) membranes via gel permeation chromatography. Journal of Membrane Science, 1997, 129, 83-91.	4.1	4
67	Relation Between the Preparation and the Morphology of Silica-Alumina Gels. Adsorption Science and Technology, 1987, 4, 149-161.	1.5	3
68	Optimization of inlet temperature for deactivating LTWGS reactor performance. AICHE Journal, 2005, 51, 2016-2023.	1.8	3
69	Surface Acidity of Silica-Alumina Catalysts in Relation to the Preparation Variables. Adsorption Science and Technology, 1986, 3, 95-108.	1.5	2
70	Kinetics of isomerization of maleic acid using ammonium bromide and ammonium peroxydisulfate as catalyst. Industrial & Engineering Chemistry Research, 1991, 30, 2138-2143.	1.8	2
71	Surface features and catalytic performance of platinum/alumina catalysts in slurry-phase hydrogenation. Industrial & Engineering Chemistry Research, 1993, 32, 2457-2463.	1.8	2
72	Analysis of combined temperature and space time trajectories to maintain constant the exit conversion of fixed bed reactors with catalyst decay. The Chemical Engineering Journal, 1991, 47, 105-112.	0.4	1

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73	Techno-economic optimization of isomerization of maleic acid to fumaric acid using ammonium bromide as a soluble catalyst. Chemical Engineering and Processing: Process Intensification, 1991, 30, 15-21.	1.8	1
74	Sequential design of experiments for optimal model discrimination and parameter estimation in isopropanol dehydration. Chemical Engineering Science, 1991, 46, 2161-2166.	1.9	1
75	Effect of molecular weight and presence of antioxidant in thermooxidative degradation of poly(2-hexyne) films. Chemical Engineering Science, 1996, 51, 2811-2816.	1.9	1
76	Promotion of Ru/ZrO2 catalysts by platinum. Studies in Surface Science and Catalysis, 2000, 143, 555-563.	1.5	1
77	Promoter Effects on Platinum Catalysts for Automotive Exhaust Control. Studies in Surface Science and Catalysis, 1993, 75, 2689-2692.	1.5	0
78	Yield and Purity Comparison of Dimethoate Manufacturing Processes:Â Homogeneous Reaction, Two-Phase Uncatalyzed Reaction, and Phase Transfer Catalysis. Industrial & Engineering Chemistry Research, 1996, 35, 4389-4393.	1.8	0
79	Intercooled Double-Bed Reactor for LTWGS Reaction with Catalyst Poisoning by Chlorine: Inlet Temperatures for the Maximization of the Production. International Journal of Chemical Reactor Engineering, 2006, 4, .	0.6	0
80	Catalytic Oxidation of Volatile Organic Compounds: Chlorinated Hydrocarbons. , 2014, , 91-131.		0