Salvador OrdÃ³Ã±ez

List of Publications by Year
in descending order

183 papers	5,940 citations	66343 42 h-index	110387 64 g-index
184 all docs	184 docs citations	184 times ranked	5793 citing authors

#	Article	IF	Citations
1	Kinetics of the deep oxidation of benzene, toluene, n-hexane and their binary mixtures over a platinum on Î³-alumina catalyst. Applied Catalysis B: Environmental, 2002, 38, 139-149.	20.2	223
2	Aqueous-phase furfural-acetone aldol condensation over basic mixed oxides. Applied Catalysis B: Environmental, 2012, 113-114, 201-211.	20.2	184
3	Adsorption of CO₂on Hydrotalcite-Derived Mixed Oxides: Sorption Mechanisms and Consequences for Adsorption Irreversibility. Industrial & Engineering Chemistry Research, 2010, 49, 3663-3671.	3.7	179
4	Ethanol catalytic condensation over Mgâ€“Al mixed oxides derived from hydrotalcites. Catalysis Today, 2011, 164, 436-442.	4.4	163
5	Selective photocatalytic oxidation of 5-hydroxymethyl-2-furfural to 2,5-furandicarboxyaldehyde in aqueous suspension of g-C3N4. Applied Catalysis B: Environmental, 2017, 204, 430-439.	20.2	156
6	Adsorption of volatile organic compounds onto carbon nanotubes, carbon nanofibers, and high-surface-area graphites. Journal of Colloid and Interface Science, 2007, 305, 7-16.	9.4	148
7	Hydrodechlorination of aliphatic organochlorinated compounds over commercial hydrogenation catalysts. Applied Catalysis B: Environmental, 2000, 25, 49-58.	20.2	97
8	Development of a kinetic model for the oxidation of methane over Pd/Al2O3 at dry and wet conditions. Applied Catalysis B: Environmental, 2004, 51, 229-238.	20.2	93
9	Adsorption of emerging pollutants on functionalized multiwall carbon nanotubes. Chemosphere, 2015, 136, 174-180.	8.2	88
10	Hydrotalcite-derived mixed oxides as catalysts for different Câ€“C bond formation reactions from bioorganic materials. Catalysis Today, 2011, 167, 71-76.	4.4	83
11	Enhancement of the CO₂ Retention Capacity of Y Zeolites by Na and Cs Treatments:â€‰ Effect of Adsorption Temperature and Water Treatment. Industrial & Engineering Chemistry Research, 2008, 47, 412-418.	3.7	82
12	Adsorption characterisation of different volatile organic compounds over alumina, zeolites and activated carbon using inverse gas chromatography. Journal of Chromatography A, 2004, 1049, 139-146.	3.7	80
13	Recent developments on the catalytic technologies for the transformation of biomass into biofuels: A patent survey. Renewable and Sustainable Energy Reviews, 2015, 51, 273-287.	16.4	77
14	Effect of carbon nanofiber functionalization on the adsorption properties of volatile organic compounds. Journal of Chromatography A, 2008, 1188, 264-273.	3.7	76
15	Consequences of the ironâ€“aluminium exchange on the performance of hydrotalcite-derived mixed oxides for ethanol condensation. Applied Catalysis B: Environmental, 2011, 102, 590-599.	20.2	75
16	Sulphur poisoning of transition metal oxides used as catalysts for methane combustion. Applied Catalysis A: General, 2008, 341, 174-180.	4.3	71
17	Combustion of Methane in Lean Mixtures over Bulk Transition-Metal Oxides: Evaluation of the Activity and Self-Deactivation. Energy & Fuels, 2009, 23, 86-93.	5.1	69
18	Performance of basic mixed oxides for aqueous-phase 5-hydroxymethylfurfural-acetone aldol condensation. Applied Catalysis B: Environmental, 2017, 201, 221-231.	20.2	68

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19	Characterisation and deactivation studies of sulfided red mud used as catalyst for the hydrodechlorination of tetrachloroethylene. Applied Catalysis B: Environmental, 2001, 29, 263-273.	20.2	66
20	Combustion of methane over palladium catalyst in the presence of inorganic compounds: inhibition and deactivation phenomena. Applied Catalysis B: Environmental, 2004, 47, 85-93.	20.2	65
21	Enhancement of the CO2 retention capacity of X zeolites by Na- and Cs-treatments. Chemosphere, 2008, 70, 1375-1382.	8.2	65
22	Improvement on the Catalytic Performance of Mgâ€“Zr Mixed Oxides for Furfuralâ€“Acetone Aldol Condensation by Supporting on Mesoporous Carbons. ChemSusChem, 2013, 6, 463-473.	6.8	64
23	Oneâ€pot Aldol Condensation and Hydrodeoxygenation of Biomassâ€derived Carbonyl Compounds for Biodiesel Synthesis. ChemSusChem, 2014, 7, 2816-2820.	6.8	64
24	Oxidation of methane over palladium catalysts: effect of the support. Chemosphere, 2005, 58, 9-17.	8.2	62
25	Combustion of methane lean mixtures in reverse flow reactors: Comparison between packed and structured catalyst beds. Catalysis Today, 2005, 105, 701-708.	4.4	61
26	Carbon nanofibre-supported palladium catalysts as model hydrodechlorination catalysts. Journal of Catalysis, 2010, 272, 158-168.	6.2	60
27	Modification of the adsorption properties of high surface area graphites by oxygen functional groups. Carbon, 2008, 46, 2096-2106.	10.3	58
28	Aqueous Phase Conversion of Hexoses into 5-Hydroxymethylfurfural and Levulinic Acid in the Presence of Hydrochloric Acid: Mechanism and Kinetics. Industrial & Engineering Chemistry Research, 2017, 56, 5221-5230.	3.7	58
29	Gas phase acetone self-condensation over unsupported and supported Mgâ€“Zr mixed-oxides catalysts. Applied Catalysis B: Environmental, 2013, 142-143, 387-395.	20.2	56
30	Catalytic combustion of hexane over transition metal modified zeolites NaX and CaA. Applied Catalysis B: Environmental, 2005, 56, 313-322.	20.2	55
31	Oxidation of trichloroethene over metal oxide catalysts: Kinetic studies and correlation with adsorption properties. Chemosphere, 2007, 66, 1706-1715.	8.2	55
32	Minimization of the deactivation of palladium catalysts in the hydrodechlorination of trichloroethylene in wastewaters. Applied Catalysis B: Environmental, 2010, 95, 288-296.	20.2	55
33	Hydrodeoxygenation of acetoneâ€“furfural condensation adducts over alumina-supported noble metal catalysts. Applied Catalysis B: Environmental, 2014, 160-161, 436-444.	20.2	54
34	Aqueousâ€Phase Transformation of Glucose into Hydroxymethylfurfural and Levulinic Acid by Combining Homogeneous and Heterogeneous Catalysis. ChemSusChem, 2019, 12, 924-934.	6.8	51
35	Hydrodechlorination of tetrachloroethene over Pd/Al2O3: influence of process conditions on catalyst performance and stability. Applied Catalysis B: Environmental, 2003, 40, 119-130.	20.2	48
36	Methane catalytic combustion over Pd/Al2O3 in presence of sulphur dioxide: development of a deactivation model. Applied Catalysis A: General, 2004, 259, 41-48.	4.3	47

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37	Adsorption properties of a Pd/Î³-Al2O3 catalyst using inverse gas chromatography. Microporous and Mesoporous Materials, 2004, 70, 109-118.	4.4	47
38	Combustion of trichloroethylene and dichloromethane over protonic zeolites: Influence of adsorption properties on the catalytic performance. Microporous and Mesoporous Materials, 2006, 91, 161-169.	4.4	47
39	Sulphur poisoning of palladium catalysts used for methane combustion: Effect of the support. Journal of Hazardous Materials, 2008, 153, 742-750.	12.4	47
40	Selective photocatalytic oxidation of 5-hydroxymethyl-2-furfural in aqueous suspension of polymeric carbon nitride and its adduct with H2O2 in a solar pilot plant. Catalysis Today, 2018, 315, 138-148.	4.4	47
41	Performance of alumina-supported noble metal catalysts for the combustion of trichloroethene at dry and wet conditions. Applied Catalysis B: Environmental, 2006, 64, 262-271.	20.2	45
42	Catalytic Hydrodechlorination of Chlorinated Olefins over a Pd/Al2O3 Catalyst:â€‰ Kinetics and Inhibition Phenomena. Industrial & Engineering Chemistry Research, 2002, 41, 505-511.	3.7	43
43	Procedures for heat recovery in the catalytic combustion of lean methaneâ€“air mixtures in a reverse flow reactor. Chemical Engineering Journal, 2009, 147, 356-365.	12.7	43
44	Kinetic study of the gas-phase hydrogenation of aromatic and aliphatic organochlorinated compounds using a Pd/Al2O3 catalyst. Journal of Hazardous Materials, 2003, 97, 281-294.	12.4	42
45	Catalytic combustion of trichloroethene over Ru/Al2O3: Reaction mechanism and kinetic study. Catalysis Communications, 2006, 7, 945-949.	3.3	41
46	Performance of bifunctional Pd/MxNyO (M=Mg, Ca; N=Zr, Al) catalysts for aldolizationâ€“hydrogenation of furfuralâ€“acetone mixtures. Catalysis Today, 2011, 164, 451-456.	4.4	39
47	Preparation of nitrogen-containing carbon nanotubes and study of their performance as basic catalysts. Applied Catalysis A: General, 2013, 458, 155-161.	4.3	39
48	Consequences of Nitrogen Doping and Oxygen Enrichment on Titanium Local Order and Photocatalytic Performance of TiO₂ Anatase. Journal of Physical Chemistry C, 2017, 121, 6770-6780.	3.1	39
49	High-surface area graphites as supports for hydrodechlorination catalysts: Tuning support surface chemistry for an optimal performance. Applied Catalysis B: Environmental, 2010, 99, 181-190.	20.2	38
50	Performance of different carbonaceous materials for emerging pollutants adsorption. Chemosphere, 2015, 119, S124-S130.	8.2	38
51	Direct synthesis of dimethyl ether from syngas over mechanical mixtures of CuO/ZnO/Al2O3 and Î³-Al2O3: Process optimization and kinetic modelling. Fuel Processing Technology, 2017, 168, 40-49.	7.2	38
52	Comparison of adsorption properties of a chemically activated and a steam-activated carbon, using inverse gas chromatography. Microporous and Mesoporous Materials, 2005, 82, 173-181.	4.4	37
53	Design and testing of small-scale unsteady-state afterburners and reactors. AICHE Journal, 2005, 51, 1654-1664.	3.6	37
54	Hemicellulose hydrolysis and hydrolytic hydrogenation over proton- and metal modified beta zeolites. Microporous and Mesoporous Materials, 2014, 189, 189-199.	4.4	37

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55	A review of the adsorption-biological hybrid processes for the abatement of emerging pollutants: Removal efficiencies, physicochemical analysis, and economic evaluation. Science of the Total Environment, 2021, 780, 146554.	8.0	37
56	Benzylation of benzene over Fe-modified ZSM-5 zeolites: Correlation between activity and adsorption properties. Applied Catalysis A: General, 2005, 295, 106-115.	4.3	36
57	Baseâ€Catalyzed Condensation of Levulinic Acid: A New Biorefinery Upgrading Approach. ChemCatChem, 2016, 8, 1490-1494.	3.7	36
58	Evaluation of the potential of different high calorific waste fractions for the preparation of solid recovered fuels. Waste Management, 2016, 47, 164-173.	7.4	36
59	Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. Catalysis Today, 2012, 196, 26-33.	4.4	35
60	Effect of hydrothermal ageing on the performance of Ce-promoted PdO/ZrO2 for methane combustion. Catalysis Communications, 2008, 9, 2291-2296.	3.3	34
61	Methane catalytic combustion over Pd/Al2O3 in presence of sulphur dioxide: development of a regeneration procedure. Catalysis Letters, 2005, 100, 27-34.	2.6	33
62	Effect of carbonaceous supports on the Pd-catalyzed aqueous-phase trichloroethylene hydrodechlorination. Applied Catalysis B: Environmental, 2011, 104, 415-417.	20.2	33
63	Modelling of hydrogen perm-selective membrane reactors for catalytic methane steam reforming. International Journal of Hydrogen Energy, 2012, 37, 18433-18445.	7.1	33
64	Gas-Phase Hydrodeoxygenation of Benzaldehyde, Benzyl Alcohol, Phenyl Acetate, and Anisole over Precious Metal Catalysts. Industrial & Engineering Chemistry Research, 2016, 55, 2319-2327.	3.7	33
65	Hydrodeoxygenation of furfural-acetone condensation adducts to tridecane over platinum catalysts. Catalysis Today, 2016, 269, 132-139.	4.4	33
66	Catalytic combustion of methane over commercial catalysts in presence of ammonia and hydrogen sulphide. Chemosphere, 2004, 55, 681-689.	8.2	32
67	Cyclopentanone as an Alternative Linking Reactant for Heterogeneously Catalyzed Furfural Aldol Condensation. ChemCatChem, 2017, 9, 1765-1770.	3.7	32
68	Consequences of MgO activation procedures on its catalytic performance for acetone self-condensation. Applied Catalysis B: Environmental, 2014, 147, 796-804.	20.2	31
69	Fixed bed membrane reactors for WGSR-based hydrogen production: Optimisation of modelling approaches and reactor performance. International Journal of Hydrogen Energy, 2012, 37, 4997-5010.	7.1	30
70	Effect of sludge features and extraction-esterification technology on the synthesis of biodiesel from secondary wastewater treatment sludges. Bioresource Technology, 2018, 247, 209-216.	9.6	30
71	Evaluation of different zeolites in their parent and protonated forms for the catalytic combustion of hexane and benzene. Microporous and Mesoporous Materials, 2005, 83, 292-300.	4.4	29
72	Evaluation of the use of ceramic foams as catalyst supports for reverse-flow combustors. Chemical Engineering Journal, 2013, 221, 44-54.	12.7	29

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73	Synthesis of poly(oxymethylene) dimethyl ethers from methylal and trioxane over acidic ion exchange resins: A kinetic study. Chemical Engineering Journal, 2020, 396, 125305.	12.7	28
74	Liquid hold-up and gasâ€“liquid mass transfer in an alumina open-cell foam. Chemical Engineering Science, 2016, 143, 297-304.	3.8	27
75	Effect of Substituents on Partial Photocatalytic Oxidation of Aromatic Alcohols Assisted by Polymeric C₃N₄. ChemCatChem, 2019, 11, 2713-2724.	3.7	27
76	Reverse flow reactors as sustainable devices for performing exothermic reactions: Applications and engineering aspects. Chemical Engineering and Processing: Process Intensification, 2019, 135, 175-189.	3.6	27
77	Hydrogen adsorption on Pd-modified carbon nanofibres: Influence of CNF surface chemistry and impregnation procedure. International Journal of Hydrogen Energy, 2010, 35, 4576-4581.	7.1	26
78	Combustion of coal mine ventilation air methane in a regenerative combustor with integrated adsorption: Reactor design and optimization. Applied Thermal Engineering, 2016, 102, 167-175.	6.0	26
79	Improvement of the stability of basic mixed oxides used as catalysts for aldol condensation of bio-derived compounds by palladium addition. Biomass and Bioenergy, 2013, 56, 592-599.	5.7	25
80	Open-cell foams as beds in multiphase reactors: Residence time distribution and mass transfer. Chemical Engineering Journal, 2017, 316, 323-331.	12.7	25
81	Carbon and ecological footprints as tools for evaluating the environmental impact of coal mine ventilation air. Ecological Indicators, 2012, 18, 126-130.	6.3	24
82	Role of surface intermediates in the deactivation of Mg Zr mixed oxides in acetone self-condensation: A combined DRIFT and ex situ characterization approach. Journal of Catalysis, 2015, 329, 1-9.	6.2	24
83	Pre-concentration of nalidixic acid through adsorptionâ€“desorption cycles: Adsorbent selection and modeling. Chemical Engineering Journal, 2016, 283, 486-494.	12.7	24
84	Direct synthesis of dimethyl ether in multi-tubular fixed-bed reactors: 2D multi-scale modelling and optimum design. Fuel Processing Technology, 2018, 174, 149-157.	7.2	24
85	Metal-Organic Frameworks (MOFs) as methane adsorbents: From storage to diluted coal mining streams concentration. Science of the Total Environment, 2021, 790, 148211.	8.0	24
86	Characterization of Co, Fe and Mn-exchanged zeolites by inverse gas chromatography. Journal of Chromatography A, 2004, 1049, 161-169.	3.7	23
87	Comparative study on the gas-phase adsorption of hexane over zeolites by calorimetry and inverse gas chromatography. Journal of Chromatography A, 2005, 1095, 131-137.	3.7	23
88	Characterization of ceriaâ€“zirconia mixed oxides as catalysts for the combustion of volatile organic compounds using inverse gas chromatography. Journal of Chromatography A, 2006, 1116, 230-239.	3.7	23
89	Hydrodeoxygenation of Acetophenone over Supported Precious Metal Catalysts at Mild Conditions: Process Optimization and Reaction Kinetics. Energy & Fuels, 2015, 29, 8208-8215.	5.1	23
90	Evaluation of adsorption properties of zeolites using inverse gas chromatography: comparison with immersion calorimetry. Thermochimica Acta, 2005, 434, 9-14.	2.7	22

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91	Design and testing of a control system for reverse-flow catalytic afterburners. AIChE Journal, 2005, 51, 3020-3027.	3.6	22
92	Coal mine ventilation air methane combustion in a catalytic reverse flow reactor: Influence of emission humidity. Fuel Processing Technology, 2015, 133, 202-209.	7.2	22
93	Influence of catalyst treatments on the adsorption properties of Î³-Al2O3 supported Pt, Rh and Ru catalysts. Microporous and Mesoporous Materials, 2005, 77, 245-255.	4.4	21
94	Influence of operation conditions on the copper-catalysed homogeneous wet oxidation of phenol: Development of a kinetic model. Chemical Engineering Journal, 2015, 270, 122-132.	12.7	21
95	Tuning the selectivities of Mg-Al mixed oxides for ethanol upgrading reactions through the presence of transition metals. Applied Catalysis A: General, 2018, 559, 167-174.	4.3	21
96	Influence of the selective layer morphology on the permeation properties for Pd-PSS composite membranes prepared by electroless pore-plating: Experimental and modeling study. Separation and Purification Technology, 2018, 194, 10-18.	7.9	21
97	Aldol Condensation of Biomass-Derived Levulinic Acid and Furfural over Acid Zeolites. ACS Sustainable Chemistry and Engineering, 2020, 8, 4371-4383.	6.7	21
98	Adsorption of methane and nitrogen on Basolite MOFs: Equilibrium and kinetic studies. Microporous and Mesoporous Materials, 2020, 298, 110048.	4.4	21
99	Simplified design methods of reverse flow catalytic combustors for the treatment of lean hydrocarbonâ€“air mixtures. Chemical Engineering and Processing: Process Intensification, 2009, 48, 229-238.	3.6	20
100	Performance of carbon nanofibres, high surface area graphites, and activated carbons as supports of Pd-based hydrodechlorination catalysts. Catalysis Today, 2010, 150, 16-21.	4.4	20
101	Role of the surface intermediates in the stability of basic mixed oxides as catalyst for ethanol condensation. Applied Catalysis A: General, 2017, 542, 271-281.	4.3	20
102	Effect of sewage sludge composition on the susceptibility to spontaneous combustion. Journal of Hazardous Materials, 2019, 361, 267-272.	12.4	20
103	Simulation of an industrial-scale process for the SCR of NOx based on the loop reactor concept. Chemical Engineering and Processing: Process Intensification, 2009, 48, 311-320.	3.6	19
104	Consequences of cavity size and chemical environment on the adsorption properties of isoreticular metal-organic frameworks: An inverse gas chromatography study. Journal of Chromatography A, 2013, 1274, 173-180.	3.7	19
105	A new peroxo-route for the synthesis of Mgâ€“Zr mixed oxides catalysts: Application in the gas phase acetone self-condensation. Applied Catalysis A: General, 2014, 477, 26-33.	4.3	19
106	Enhancement of the 1-butanol productivity in the ethanol condensation catalyzed by noble metal nanoparticles supported on Mg-Al mixed oxide. Applied Catalysis A: General, 2018, 563, 64-72.	4.3	19
107	A new method for controlling the ignition state of a regenerative combustor using a heat storage device. Applied Energy, 2014, 116, 322-332.	10.1	18
108	Exceptional thermal stability of undoped anatase TiO₂ photocatalysts prepared by a solvent-exchange method. RSC Advances, 2015, 5, 36634-36641.	3.6	18

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109	Assessment of phenol wet oxidation on CuO/Î³-Al2O3 catalysts: Competition between heterogeneous and leached-copper homogeneous reaction paths. Journal of Environmental Chemical Engineering, 2017, 5, 2570-2578.	6.7	18
110	Effect of the catalyst properties on the performance of a reverse flow reactor for methane combustion in lean mixtures. Chemical Engineering Journal, 2007, 129, 1-10.	12.7	17
111	Monoliths as suitable catalysts for reverseâ€flow combustors: Modeling and experimental validation. AICHE Journal, 2010, 56, 3162-3173.	3.6	17
112	Performance of siliconâ€carbide foams as supports for Pdâ€based methane combustion catalysts. Journal of Chemical Technology and Biotechnology, 2012, 87, 360-367.	3.2	17
113	Catalyst deactivation in the direct synthesis of dimethyl ether from syngas over CuO/ZnO/Al2O3 and Î³-Al2O3 mechanical mixtures. Fuel Processing Technology, 2018, 179, 378-386.	7.2	17
114	Electrochemical degradation of naproxen from water by anodic oxidation with multiwall carbon nanotubes glassy carbon electrode. Water Science and Technology, 2019, 79, 480-488.	2.5	17
115	Enrichment of low concentration methane: an overview of ventilation air methane. Journal of Materials Chemistry A, 2022, 10, 6397-6413.	10.3	17
116	Preparation of carbon nanofibres supported palladium catalysts for hydrodechlorination reactions. Catalysis Communications, 2008, 9, 2080-2084.	3.3	16
117	Demonstration of a control system for combustion of lean hydrocarbon emissions in a reverse flow reactor. Chemical Engineering Science, 2010, 65, 54-59.	3.8	16
118	Trichloroethylene Hydrodechlorination in Water Using Formic Acid as Hydrogen Source: Selection of Catalyst and Operation Conditions. Environmental Progress and Sustainable Energy, 2013, 32, 1217-1222.	2.3	16
119	Reduction of carbon dioxide via catalytic hydrogenation over copper-based catalysts modified by oyster shell-derived calcium oxide. Journal of Environmental Chemical Engineering, 2017, 5, 3115-3121.	6.7	16
120	Direct oxidation of methane to methanol over Cu-zeolites at mild conditions. Molecular Catalysis, 2020, 487, 110886.	2.0	16
121	Transition metal-exchanged LTA zeolites as novel catalysts for methane combustion. Catalysis Today, 2010, 157, 425-431.	4.4	15
122	Selective arabinose extraction from Pinus sp. sawdust by two-step soft acid hydrolysis. Industrial Crops and Products, 2017, 104, 229-236.	5.2	15
123	Enhancement of furfuralâ€“cyclopentanone aldol condensation using binary waterâ€“ethanol mixtures as solvent. Journal of Chemical Technology and Biotechnology, 2018, 93, 1563-1571.	3.2	15
124	Copperâ€Basic Sites Synergic Effect on the Ethanol Dehydrogenation and Condensation Reactions. ChemCatChem, 2018, 10, 3583-3592.	3.7	15
125	Effect of wall properties on the behavior of bench-scale reverse flow reactors. AICHE Journal, 2006, 52, 3203-3209.	3.6	14
126	Combustion of tolueneâ€“hexane binary mixtures in a reverse flow catalytic reactor. Chemical Engineering Science, 2008, 63, 5003-5009.	3.8	14

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127	A hydrothermal peroxo method for preparation of highly crystalline silicaâ€“titania photocatalysts. Journal of Colloid and Interface Science, 2015, 444, 87-96.	9.4	14
128	Densification-Induced Structure Changes in Basolite MOFs: Effect on Low-Pressure CH4 Adsorption. Nanomaterials, 2020, 10, 1089.	4.1	14
129	Ammonia Oxidation over Conventional Combustion Catalysts. Reaction Kinetics and Catalysis Letters, 2002, 76, 61-68.	0.6	13
130	Regeneration of Pd/Al2O3 catalysts used for tetrachloroethylene hydrodechlorination. Reaction Kinetics and Catalysis Letters, 2007, 90, 101-106.	0.6	13
131	A kinetic study of CO2 desorption from basic materials: Correlation with adsorption properties. Chemical Engineering Journal, 2011, 175, 341-348.	12.7	13
132	Consequences of cavity size and palladium addition on the selective hydrogen adsorption in isoreticular metal-organic frameworks. Thermochimica Acta, 2013, 567, 79-84.	2.7	13
133	Synthesis of formaldehyde from dimethyl ether on alumina-supported molybdenum oxide catalyst. Applied Catalysis A: General, 2016, 527, 137-145.	4.3	13
134	Carbon Materials as Phaseâ€Transfer Promoters for Obtaining 5â€Hydroxymethylfurfural from Cellulose in a Biphasic System. ChemSusChem, 2019, 12, 3769-3777.	6.8	13
135	A New Procedure for the Treatment of Organochlorinated Off-Gases Combining Adsorption and Catalytic Hydrodechlorination. Environmental Science & Technology, 2009, 43, 1999-2004.	10.0	12
136	Hydrocarbons adsorption on metal trimesate MOFs: Inverse gas chromatography and immersion calorimetry studies. Thermochimica Acta, 2015, 602, 36-42.	2.7	12
137	Selective catalytic reduction of NO in a reverse-flow reactor: Modelling and experimental validation. Applied Energy, 2015, 138, 183-192.	10.1	12
138	Performance of ceramic foams as gasâ€“liquid contactors for phenol wet oxidation in the trickle regime. Catalysis Today, 2016, 273, 172-177.	4.4	12
139	Optimization of the process conditions for minimizing the deactivation in the furfural-cyclopentanone aldol condensation in a continuous reactor. Applied Catalysis B: Environmental, 2020, 263, 118341.	20.2	12
140	Control of regenerative catalytic oxidizers used in coal mine ventilation air methane exploitation. Chemical Engineering Research and Design, 2020, 134, 333-342.	5.6	12
141	Effect of pretreatments and catalytic route in the quality and productivity of biodiesel obtained from secondary sludge. Biomass and Bioenergy, 2021, 152, 106195.	5.7	12
142	TransformaciÃ³n de biomasa en biocombustibles de segunda generaciÃ³n. Madera Bosques, 2014, 20, 11-24.	0.2	12
143	Comments on â€œCatalytic applications of red mud, an aluminium industry waste: A reviewâ€. Applied Catalysis B: Environmental, 2008, 84, 732-733.	20.2	11
144	Thermally induced sintering and redispersion of Au nanoparticles supported on Ce1-xEuxO2 nanocubes and their influence on catalytic CO oxidation. Catalysis Communications, 2019, 131, 105798.	3.3	11

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145	Selective synthesis of Î³-valerolactone from levulinic and formic acid over ZnAl mixed oxide. Chemical Engineering Journal, 2021, 414, 128902.	12.7	11
146	Combustion of medium concentration CH4â€“air mixtures in non-stationary reactors. Chemical Engineering Journal, 2007, 131, 343-349.	12.7	10
147	Methane separation from diluted mixtures by fixed bed adsorption using MOFs: Model validation and parametric studies. Separation and Purification Technology, 2020, 251, 117374.	7.9	10
148	From biomass to diesel additives: Hydrogenation of cyclopentanone-furfural aldol condensation adducts. Journal of Environmental Chemical Engineering, 2021, 9, 105328.	6.7	10
149	One-Pot Conversion of Acetone into Mesitylene over Combinations of Acid and Basic Catalysts. ACS Catalysis, 2021, 11, 11650-11662.	11.2	10
150	Systematic study of the performance of a reverse flow reactor for the treatment of lean hydrocarbon emissions. Journal of Chemical Technology and Biotechnology, 2009, 84, 1292-1302.	3.2	9
151	Performance of reverse flow monolithic reactor for waterâ€“gas shift reaction. Catalysis Today, 2009, 147, S185-S190.	4.4	9
152	The role of reaction kinetics and mass transfer in the selective catalytic reduction of <scp>NO</scp> with <scp>NH₃</scp> in monolithic reactors. Journal of Chemical Technology and Biotechnology, 2015, 90, 1299-1307.	3.2	9
153	Effect of metal modification of titania and hydrogen co-feeding on the reaction pathways and catalytic stability in the acetone aldol condensation. Journal of Catalysis, 2019, 377, 133-144.	6.2	9
154	Influence of delignification and reaction conditions in the aqueous phase transformation of lignocellulosic biomass to platform molecules. Bioresource Technology, 2021, 321, 124500.	9.6	9
155	Effect of organosulphur, organonitrogen and organooxygen compounds on the hydrodechlorination of tetrachloroethylene over Pd/Al2O3. Applied Catalysis B: Environmental, 2008, 82, 264-272.	20.2	8
156	Experimental demonstration and modeling of an adsorption-enhanced reverse flow reactor for the catalytic combustion of coal mine ventilation air methane. Chemical Engineering Journal, 2015, 279, 198-206.	12.7	8
157	Photocatalytic degradation of 2-(4-methylphenoxy)ethanol over TiO2 spheres. Journal of Hazardous Materials, 2017, 332, 59-69.	12.4	8
158	Concentration of unconventional methane resources using microporous membranes: Process assessment and scale-up. Journal of Natural Gas Science and Engineering, 2020, 81, 103420.	4.4	8
159	Effect of formaldehyde precursor and water inhibition in dimethoxymethane synthesis from methanol over acidic ion exchange resins: mechanism and kinetics. Biofuels, Bioproducts and Biorefining, 2021, 15, 1696-1708.	3.7	8
160	Catalytic combustion of sulphur-containing methane lean emissions in a reverse-flow reactor with integrated adsorption. Chemical Engineering Journal, 2016, 285, 39-48.	12.7	7
161	Electrochemical reduction of nalidixic acid at glassy carbon electrode modified with multi-walled carbon nanotubes. Journal of Hazardous Materials, 2017, 323, 621-631.	12.4	7
162	Carbon nanotube modified glassy carbon electrode for electrochemical oxidation of alkylphenol ethoxylate. Water Science and Technology, 2018, 77, 2436-2444.	2.5	7

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163	Inhibition effects of organosulphur compounds on the hydrodechlorination of tetrachloroethylene over Pd/Al2O3 catalysts. Catalysis Today, 2003, 84, 121-127.	4.4	6
164	Inverse gas chromatography as a technique for the characterization of the performance of Mn/Zr mixed oxides as combustion catalysts. Journal of Chromatography A, 2009, 1216, 7873-7881.	3.7	6
165	Rational design of heating elements using CFD: Application to a bench-scale adiabatic reactor. Computers and Chemical Engineering, 2011, 35, 2326-2333.	3.8	6
166	Effect of catalyst morphology and hydrogen co-feeding on the acid-catalysed transformation of acetone into mesitylene. Catalysis Science and Technology, 2020, 10, 1356-1367.	4.1	6
167	Benzofuran as deactivation precursor molecule: Improving the stability of acid zeolites in biomass pyrolysis by co-feeding propylene. Applied Catalysis A: General, 2021, 611, 117980.	4.3	6
168	A new strategy for upgrading ventilation air methane emissions combining adsorption and combustion in a lean-gas turbine. Journal of Natural Gas Science and Engineering, 2021, 88, 103808.	4.4	6
169	From Biomass to Green Aromatics: Direct Upgrading of Furfuralâ€“Ethanol Mixtures. ACS Sustainable Chemistry and Engineering, 2022, 10, 7752-7758.	6.7	6
170	Cyclohexene Reactivity over Palladium Acetate Supported in Liquid Phase. Catalysis Letters, 2004, 96, 169-175.	2.6	4
171	Influence of nalidixic acid on tandem heterotrophic-autotrophic kinetics in a â€œNIPHOâ€•activated sludge reactor. Chemosphere, 2019, 218, 128-137.	8.2	4
172	Harnessing of Diluted Methane Emissions by Direct Partial Oxidation of Methane to Methanol over Cu/Mordenite. Industrial & Engineering Chemistry Research, 2021, 60, 9409-9417.	3.7	4
173	Assessment of an integrated adsorption-regenerative catalytic oxidation process for the harnessing of lean methane emissions. Journal of Environmental Chemical Engineering, 2022, 10, 107013.	6.7	4
174	Performance of a cell-foam trickle-bed reactor for phenol wet oxidation: Influence of operation parameters and modelling. Chemical Engineering Research and Design, 2017, 107, 35-43.	5.6	3
175	Upgrading of methane emissions via chemical looping over copper-zeolites: Experiments and modelling. Chemical Engineering Science, 2022, 259, 117818.	3.8	3
176	Hydrogenation and Dehydrogenation of Liquid Organic Hydrogen Carriers: A New Opportunity for Carbon-Based Catalysts. Journal of Carbon Research, 2022, 8, 7.	2.7	2
177	Role of Reactant Alkylation Grade in the Selectivity and Stability of Furanâ€“Alkene Dielsâ€“Alder Reactions. ACS Sustainable Chemistry and Engineering, 2022, 10, 3057-3065.	6.7	2
178	An IGC Study of the Role of Washing Procedures on the Adsorption Properties of Activated Carbons. Adsorption Science and Technology, 2007, 25, 99-112.	3.2	1
179	Base-Catalyzed Reactions in Biomass Conversion: Reaction Mechanisms and Catalyst Deactivation. Green Chemistry and Sustainable Technology, 2016, , 87-122.	0.7	1
180	Micropollutants pre-concentration using adsorption-desorption cycles: application to chlorinated paraffins and alkyl-phenol derivatives. Journal of Chemical Technology and Biotechnology, 2017, 92, 1076-1084.	3.2	1

#	Article	IF	Citations
181	PHYSICO CHEMICAL TREATMENT METHODS FUNDAMENTALS AND DESIGN GUIDELINES. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 1-38.	0.2	1
182	Transition metal oxide catalysts as an alternative for the oxidation of nitrogen monoxide to nitrogen dioxide: kinetic modelling at high space velocity. Journal of Chemical Technology and Biotechnology, 2016, 91, 359-366.	3.2	0
183	The Role of Heterogeneous Catalytic Processes in the Green Hydrogen Economy. Catalysts, 2021, 11, 1185.	3.5	0