# Salvador OrdÃ³Ã±ez

List of Publications by Year
in descending order



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|---|---|---|---|
| 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 | 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 |
| 2 | 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 |
| 3 | Enrichment of low concentration methane: an overview of ventilation air methane. Journal of Materials Chemistry A, 2022, 10, 6397-6413. | 10.3 | 17 |
| 4 | 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 |
| 5 | From Biomass to Green Aromatics: Direct Upgrading of Furfuralâ€“Ethanol Mixtures. ACS Sustainable Chemistry and Engineering, 2022, 10, 7752-7758. | 6.7 | 6 |
| 6 | Upgrading of methane emissions via chemical looping over copper-zeolites: Experiments and modelling. Chemical Engineering Science, 2022, 259, 117818. | 3.8 | 3 |
| 7 | 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 |
| 8 | 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 |
| 9 | 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 |
| 10 | Selective synthesis of Î³-valerolactone from levulinic and formic acid over ZnAl mixed oxide. Chemical Engineering Journal, 2021, 414, 128902. | 12.7 | 11 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | From biomass to diesel additives: Hydrogenation of cyclopentanone-furfural aldol condensation adducts. Journal of Environmental Chemical Engineering, 2021, 9, 105328. | 6.7 | 10 |
| 15 | One-Pot Conversion of Acetone into Mesitylene over Combinations of Acid and Basic Catalysts. ACS Catalysis, 2021, 11, 11650-11662. | 11.2 | 10 |
| 16 | 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 |
| 17 | The Role of Heterogeneous Catalytic Processes in the Green Hydrogen Economy. Catalysts, 2021, 11, 1185. | 3.5 | 0 |
| 18 | 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 |

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| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | Densification-Induced Structure Changes in Basolite MOFs: Effect on Low-Pressure CH4 Adsorption. Nanomaterials, 2020, 10, 1089. | 4.1 | 14 |
| 24 | Direct oxidation of methane to methanol over Cu-zeolites at mild conditions. Molecular Catalysis, 2020, 487, 110886. | 2.0 | 16 |
| 25 | Aldol Condensation of Biomass-Derived Levulinic Acid and Furfural over Acid Zeolites. ACS Sustainable Chemistry and Engineering, 2020, 8, 4371-4383. | 6.7 | 21 |
| 26 | 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 |
| 27 | Adsorption of methane and nitrogen on Basolite MOFs: Equilibrium and kinetic studies. Microporous and Mesoporous Materials, 2020, 298, 110048. | 4.4 | 21 |
| 28 | 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 |
| 29 | Aqueousâ€Phase Transformation of Glucose into Hydroxymethylfurfural and Levulinic Acid by Combining Homogeneous and Heterogeneous Catalysis. ChemSusChem, 2019, 12, 924-934. | 6.8 | 51 |
| 30 | 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 |
| 31 | 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 |
| 32 | Carbon Materials as Phaseâ€Transfer Promoters for Obtaining 5â€Hydroxymethylfurfural from Cellulose in a Biphasic System. ChemSusChem, 2019, 12, 3769-3777. | 6.8 | 13 |
| 33 | Effect of Substituents on Partial Photocatalytic Oxidation of Aromatic Alcohols Assisted by Polymeric C<sub>3</sub>N<sub>4</sub>. ChemCatChem, 2019, 11, 2713-2724. | 3.7 | 27 |
| 34 | 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 |
| 35 | Effect of sewage sludge composition on the susceptibility to spontaneous combustion. Journal of Hazardous Materials, 2019, 361, 267-272. | 12.4 | 20 |
| 36 | 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 |

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| 37 | Influence of nalidixic acid on tandem heterotrophic-autotrophic kinetics in a â€œNIPHOâ€•activated sludge reactor. Chemosphere, 2019, 218, 128-137. | 8.2 | 4 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | 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 |
| 44 | Carbon nanotube modified glassy carbon electrode for electrochemical oxidation of alkylphenol ethoxylate. Water Science and Technology, 2018, 77, 2436-2444. | 2.5 | 7 |
| 45 | 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 |
| 46 | 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 |
| 47 | Copperâ€Basic Sites Synergic Effect on the Ethanol Dehydrogenation and Condensation Reactions. ChemCatChem, 2018, 10, 3583-3592. | 3.7 | 15 |
| 48 | Cyclopentanone as an Alternative Linking Reactant for Heterogeneously Catalyzed Furfural Aldol Condensation. ChemCatChem, 2017, 9, 1765-1770. | 3.7 | 32 |
| 49 | Open-cell foams as beds in multiphase reactors: Residence time distribution and mass transfer. Chemical Engineering Journal, 2017, 316, 323-331. | 12.7 | 25 |
| 50 | 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 |
| 51 | Consequences of Nitrogen Doping and Oxygen Enrichment on Titanium Local Order and Photocatalytic Performance of TiO<sub>2</sub> Anatase. Journal of Physical Chemistry C, 2017, 121, 6770-6780. | 3.1 | 39 |
| 52 | Photocatalytic degradation of 2-(4-methylphenoxy)ethanol over TiO2 spheres. Journal of Hazardous Materials, 2017, 332, 59-69. | 12.4 | 8 |
| 53 | Selective arabinose extraction from Pinus sp. sawdust by two-step soft acid hydrolysis. Industrial Crops and Products, 2017, 104, 229-236. | 5.2 | 15 |
| 54 | 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 |

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| 55 | 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 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | Performance of basic mixed oxides for aqueous-phase 5-hydroxymethylfurfural-acetone aldol condensation. Applied Catalysis B: Environmental, 2017, 201, 221-231. | 20.2 | 68 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |
| 64 | Baseâ€Catalyzed Condensation of Levulinic Acid: A New Biorefinery Upgrading Approach. ChemCatChem, 2016, 8, 1490-1494. | 3.7 | 36 |
| 65 | Synthesis of formaldehyde from dimethyl ether on alumina-supported molybdenum oxide catalyst. Applied Catalysis A: General, 2016, 527, 137-145. | 4.3 | 13 |
| 66 | 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 |
| 67 | 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 |
| 68 | Liquid hold-up and gasâ€“liquid mass transfer in an alumina open-cell foam. Chemical Engineering Science, 2016, 143, 297-304. | 3.8 | 27 |
| 69 | 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 |
| 70 | Hydrodeoxygenation of furfural-acetone condensation adducts to tridecane over platinum catalysts. Catalysis Today, 2016, 269, 132-139. | 4.4 | 33 |
| 71 | 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 |
| 72 | 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 |

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| 73 | Base-Catalyzed Reactions in Biomass Conversion: Reaction Mechanisms and Catalyst Deactivation. Green Chemistry and Sustainable Technology, 2016, , 87-122. | 0.7 | 1 |
| 74 | Pre-concentration of nalidixic acid through adsorptionâ€“desorption cycles: Adsorbent selection and modeling. Chemical Engineering Journal, 2016, 283, 486-494. | 12.7 | 24 |
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| 76 | 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 |
| 77 | 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 |
| 78 | Hydrocarbons adsorption on metal trimesate MOFs: Inverse gas chromatography and immersion calorimetry studies. Thermochimica Acta, 2015, 602, 36-42. | 2.7 | 12 |
| 79 | 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 |
| 80 | 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 |
| 81 | Exceptional thermal stability of undoped anatase TiO<sub>2</sub> photocatalysts prepared by a solvent-exchange method. RSC Advances, 2015, 5, 36634-36641. | 3.6 | 18 |
| 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 | 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 |
| 84 | 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 |
| 85 | Performance of different carbonaceous materials for emerging pollutants adsorption. Chemosphere, 2015, 119, S124-S130. | 8.2 | 38 |
| 86 | Selective catalytic reduction of NO in a reverse-flow reactor: Modelling and experimental validation. Applied Energy, 2015, 138, 183-192. | 10.1 | 12 |
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| 91 | Consequences of MgO activation procedures on its catalytic performance for acetone self-condensation. Applied Catalysis B: Environmental, 2014, 147, 796-804. | 20.2 | 31 |
| 92 | 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 |
| 93 | Hydrodeoxygenation of acetoneâ€“furfural condensation adducts over alumina-supported noble metal catalysts. Applied Catalysis B: Environmental, 2014, 160-161, 436-444. | 20.2 | 54 |
| 94 | TransformaciÃ³n de biomasa en biocombustibles de segunda generaciÃ³n. Madera Bosques, 2014, 20, 11-24. | 0.2 | 12 |
| 95 | 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 |
| 96 | 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 |
| 97 | Evaluation of the use of ceramic foams as catalyst supports for reverse-flow combustors. Chemical Engineering Journal, 2013, 221, 44-54. | 12.7 | 29 |
| 98 | 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 |
| 99 | 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 |
| 100 | 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 |
| 101 | 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 |
| 102 | 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 |
| 103 | Hydrolytic hydrogenation of hemicellulose over metal modified mesoporous catalyst. Catalysis Today, 2012, 196, 26-33. | 4.4 | 35 |
| 104 | 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 |
| 105 | Modelling of hydrogen perm-selective membrane reactors for catalytic methane steam reforming. International Journal of Hydrogen Energy, 2012, 37, 18433-18445. | 7.1 | 33 |
| 106 | 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 |
| 107 | Aqueous-phase furfural-acetone aldol condensation over basic mixed oxides. Applied Catalysis B: Environmental, 2012, 113-114, 201-211. | 20.2 | 184 |
| 108 | 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 |

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| 110 | A kinetic study of CO2 desorption from basic materials: Correlation with adsorption properties. Chemical Engineering Journal, 2011, 175, 341-348. | 12.7 | 13 |
| 111 | Ethanol catalytic condensation over Mgâ€“Al mixed oxides derived from hydrotalcites. Catalysis Today, 2011, 164, 436-442. | 4.4 | 163 |
| 112 | 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 |
| 113 | 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 |
| 114 | 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 |
| 115 | Effect of carbonaceous supports on the Pd-catalyzed aqueous-phase trichloroethylene hydrodechlorination. Applied Catalysis B: Environmental, 2011, 104, 415-417. | 20.2 | 33 |
| 116 | PHYSICO CHEMICAL TREATMENT METHODS FUNDAMENTALS AND DESIGN GUIDELINES. NATO Science for Peace and Security Series C: Environmental Security, 2011, , 1-38. | 0.2 | 1 |
| 117 | Carbon nanofibre-supported palladium catalysts as model hydrodechlorination catalysts. Journal of Catalysis, 2010, 272, 158-168. | 6.2 | 60 |
| 118 | Monoliths as suitable catalysts for reverseâ€flow combustors: Modeling and experimental validation. AICHE Journal, 2010, 56, 3162-3173. | 3.6 | 17 |
| 119 | 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 |
| 120 | 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 |
| 121 | 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 |
| 122 | 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 |
| 123 | Transition metal-exchanged LTA zeolites as novel catalysts for methane combustion. Catalysis Today, 2010, 157, 425-431. | 4.4 | 15 |
| 124 | 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 |
| 125 | Adsorption of CO<sub>2</sub>on Hydrotalcite-Derived Mixed Oxides: Sorption Mechanisms and Consequences for Adsorption Irreversibility. Industrial & Engineering Chemistry Research, 2010, 49, 3663-3671. | 3.7 | 179 |
| 126 | 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 |

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| 127 | 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 |
| 128 | Performance of reverse flow monolithic reactor for waterâ€“gas shift reaction. Catalysis Today, 2009, 147, S185-S190. | 4.4 | 9 |
| 129 | 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 |
| 130 | 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 |
| 131 | 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 |
| 132 | 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 |
| 133 | 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 |
| 134 | Sulphur poisoning of palladium catalysts used for methane combustion: Effect of the support. Journal of Hazardous Materials, 2008, 153, 742-750. | 12.4 | 47 |
| 135 | Sulphur poisoning of transition metal oxides used as catalysts for methane combustion. Applied Catalysis A: General, 2008, 341, 174-180. | 4.3 | 71 |
| 136 | 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 |
| 137 | Modification of the adsorption properties of high surface area graphites by oxygen functional groups. Carbon, 2008, 46, 2096-2106. | 10.3 | 58 |
| 138 | Combustion of tolueneâ€“hexane binary mixtures in a reverse flow catalytic reactor. Chemical Engineering Science, 2008, 63, 5003-5009. | 3.8 | 14 |
| 139 | Effect of carbon nanofiber functionalization on the adsorption properties of volatile organic compounds. Journal of Chromatography A, 2008, 1188, 264-273. | 3.7 | 76 |
| 140 | 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 |
| 141 | Preparation of carbon nanofibres supported palladium catalysts for hydrodechlorination reactions. Catalysis Communications, 2008, 9, 2080-2084. | 3.3 | 16 |
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| 143 | Enhancement of the CO<sub>2</sub> 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 |
| 144 | Enhancement of the CO2 retention capacity of X zeolites by Na- and Cs-treatments. Chemosphere, 2008, 70, 1375-1382. | 8.2 | 65 |

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| 146 | Oxidation of trichloroethene over metal oxide catalysts: Kinetic studies and correlation with adsorption properties. Chemosphere, 2007, 66, 1706-1715. | 8.2 | 55 |
| 147 | Combustion of medium concentration CH4â€“air mixtures in non-stationary reactors. Chemical Engineering Journal, 2007, 131, 343-349. | 12.7 | 10 |
| 148 | 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 |
| 149 | Regeneration of Pd/Al2O3 catalysts used for tetrachloroethylene hydrodechlorination. Reaction Kinetics and Catalysis Letters, 2007, 90, 101-106. | 0.6 | 13 |
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| 151 | Catalytic combustion of trichloroethene over Ru/Al2O3: Reaction mechanism and kinetic study. Catalysis Communications, 2006, 7, 945-949. | 3.3 | 41 |
| 152 | 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 |
| 153 | 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 |
| 154 | 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 |
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