

Juan R. González-Velasco

List of Publications by Year in descending order

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| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Isotopic and in situ DRIFTS study of the CO ₂ methanation mechanism using Ni/CeO ₂ and Ni/Al ₂ O ₃ catalysts. Applied Catalysis B: Environmental, 2020, 265, 118538. | 20.2 | 199 |
| 2 | Ni catalysts with La as promoter supported over Y- and BETA- zeolites for CO ₂ methanation. Applied Catalysis B: Environmental, 2018, 238, 393-403. | 20.2 | 175 |
| 3 | Role of the different copper species on the activity of Cu/zeolite catalysts for SCR of NO _x with NH ₃ . Applied Catalysis B: Environmental, 2014, 147, 420-428. | 20.2 | 163 |
| 4 | Activity and product distribution of alumina supported platinum and palladium catalysts in the gas-phase oxidative decomposition of chlorinated hydrocarbons. Applied Catalysis B: Environmental, 1998, 19, 189-197. | 20.2 | 135 |
| 5 | Synthesis, characterisation and performance evaluation of spinel-derived Ni/Al ₂ O ₃ catalysts for various methane reforming reactions. Applied Catalysis B: Environmental, 2014, 158-159, 190-201. | 20.2 | 134 |
| 6 | 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. | 20.2 | 132 |
| 7 | Structural characterisation of Ni/alumina reforming catalysts activated at high temperatures. Applied Catalysis A: General, 2013, 466, 9-20. | 4.3 | 126 |
| 8 | Key factors in Sr-doped LaBO ₃ (Ba ²⁺ =Co or Mn) perovskites for NO oxidation in efficient diesel exhaust purification. Applied Catalysis B: Environmental, 2017, 213, 198-210. | 20.2 | 124 |
| 9 | Evaluation of H-type zeolites in the destructive oxidation of chlorinated volatile organic compounds. Applied Catalysis B: Environmental, 2000, 24, 233-242. | 20.2 | 120 |
| 10 | Enhanced activity of zeolites by chemical dealumination for chlorinated VOC abatement. Applied Catalysis B: Environmental, 2003, 41, 31-42. | 20.2 | 120 |
| 11 | Catalytic purification of waste gases containing VOC mixtures with Ce/Zr solid solutions. Applied Catalysis B: Environmental, 2006, 65, 191-200. | 20.2 | 119 |
| 12 | Effect of metal loading on the CO ₂ methanation: A comparison between alumina supported Ni and Ru catalysts. Catalysis Today, 2020, 356, 419-432. | 4.4 | 111 |
| 13 | Ni loading effects on dual function materials for capture and in-situ conversion of CO ₂ to CH ₄ using CaO or Na ₂ CO ₃ . Journal of CO ₂ Utilization, 2019, 34, 576-587. | 6.8 | 109 |
| 14 | 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. | 20.2 | 101 |
| 15 | Mechanism of the CO ₂ storage and in situ hydrogenation to CH ₄ . Temperature and adsorbent loading effects over Ru-CaO/Al ₂ O ₃ and Ru-Na ₂ CO ₃ /Al ₂ O ₃ catalysts. Applied Catalysis B: Environmental, 2019, 256, 117845. | 20.2 | 100 |
| 16 | Contribution of cerium/zirconium mixed oxides to the activity of a new generation of TWC. Applied Catalysis B: Environmental, 1999, 22, 167-178. | 20.2 | 98 |
| 17 | Comparative study of the oxidative decomposition of trichloroethylene over H-type zeolites under dry and humid conditions. Applied Catalysis B: Environmental, 2001, 30, 303-313. | 20.2 | 97 |
| 18 | Thermal aging of Pd/Pt/Rh automotive catalysts under a cycled oxidizing-reducing environment. Catalysis Today, 2000, 59, 395-402. | 4.4 | 95 |

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|----|--|------|-----------|
| 19 | Stability of protonic zeolites in the catalytic oxidation of chlorinated VOCs (1,2-dichloroethane). <i>Applied Catalysis B: Environmental</i> , 2009, 88, 533-541. | 20.2 | 95 |
| 20 | Combustion of aliphatic C2 chlorohydrocarbons over ceria-zirconia mixed oxides catalysts. <i>Applied Catalysis A: General</i> , 2004, 269, 147-155. | 4.3 | 94 |
| 21 | Kinetics of the Low-Temperature WGS Reaction over a CuO/ZnO/Al ₂ O ₃ Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 41-50. | 3.7 | 90 |
| 22 | State of the art in catalytic oxidation of chlorinated volatile organic compounds. <i>Chemical Papers</i> , 2014, 68, . | 2.2 | 85 |
| 23 | Performance of zeolites and product selectivity in the gas-phase oxidation of 1,2-dichloroethane. <i>Catalysis Today</i> , 2000, 62, 367-377. | 4.4 | 83 |
| 24 | MnOx/Pt/Al ₂ O ₃ catalysts for CO oxidation in H ₂ -rich streams. <i>Applied Catalysis B: Environmental</i> , 2007, 70, 532-541. | 20.2 | 79 |
| 25 | On the mechanism of the catalytic destruction of 1,2-dichloroethane over Ce/Zr mixed oxide catalysts. <i>Journal of Molecular Catalysis A</i> , 2007, 278, 181-188. | 4.8 | 78 |
| 26 | Synthesis, characterisation and behaviour of Co/hydroxyapatite catalysts in the oxidation of 1,2-dichloroethane. <i>Applied Catalysis B: Environmental</i> , 2016, 190, 125-136. | 20.2 | 78 |
| 27 | Zr promotion effect in CO ₂ methanation over ceria supported nickel catalysts. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 1710-1719. | 7.1 | 78 |
| 28 | Structure of Mn-Zr mixed oxides catalysts and their catalytic performance in the gas-phase oxidation of chlorocarbons. <i>Chemosphere</i> , 2007, 68, 1004-1012. | 8.2 | 71 |
| 29 | Cu-zeolite catalysts for NO _x removal by selective catalytic reduction with NH ₃ and coupled to NO storage/reduction monolith in diesel engine exhaust aftertreatment systems. <i>Applied Catalysis B: Environmental</i> , 2016, 187, 419-427. | 20.2 | 71 |
| 30 | Low-temperature deep oxidation of dichloromethane and trichloroethylene by H-ZSM-5-supported manganese oxide catalysts. <i>Journal of Catalysis</i> , 2003, 218, 148-154. | 6.2 | 70 |
| 31 | Deactivation of H-zeolites during catalytic oxidation of trichloroethylene. <i>Journal of Catalysis</i> , 2012, 296, 165-174. | 6.2 | 70 |
| 32 | Behavior of Coprecipitated NiAl ₂ O ₄ /Al ₂ O ₃ Catalysts for Low-Temperature Methane Steam Reforming. <i>Energy & Fuels</i> , 2014, 28, 7109-7121. | 5.1 | 65 |
| 33 | Non-isothermal analysis of the kinetics of the combustion of carbonaceous materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 65-69. | 3.6 | 64 |
| 34 | Selective CO oxidation over CeZr ¹⁺ XO ₂ -supported Pt catalysts. <i>Catalysis Today</i> , 2006, 116, 391-399. | 4.4 | 62 |
| 35 | Influence of Ca/P ratio on the catalytic performance of Ni/hydroxyapatite samples in dry reforming of methane. <i>Applied Catalysis A: General</i> , 2019, 580, 34-45. | 4.3 | 62 |
| 36 | Catalytic oxidation of aliphatic chlorinated volatile organic compounds over Pt/H-BETA zeolite catalyst under dry and humid conditions. <i>Catalysis Today</i> , 2005, 107-108, 200-207. | 4.4 | 61 |

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|----|--|------|-----------|
| 37 | Pervaporation of ethanol-water mixtures through poly(1-trimethylsilyl-1-propyne) (PTMSP) membranes. <i>Desalination</i> , 2002, 149, 61-65. | 8.2 | 59 |
| 38 | Influence of water and hydrocarbon processed in feedstream on the three-way behaviour of platinum-alumina catalysts. <i>Applied Catalysis B: Environmental</i> , 1997, 12, 61-79. | 20.2 | 58 |
| 39 | Optimization of process parameters on the extrusion of honeycomb shaped monolith of H-ZSM-5 zeolite. <i>Chemical Engineering Journal</i> , 2010, 162, 415-423. | 12.7 | 57 |
| 40 | MgO/NiAl ₂ O ₄ as a new formulation of reforming catalysts: Tuning the surface properties for the enhanced partial oxidation of methane. <i>Applied Catalysis B: Environmental</i> , 2016, 199, 372-383. | 20.2 | 57 |
| 41 | Catalytic combustion of chlorinated hydrocarbons over H-BETA and PdO/H-BETA zeolite catalysts. <i>Applied Catalysis A: General</i> , 2004, 271, 39-46. | 4.3 | 56 |
| 42 | A shrinking core model for the alkaline hydrolysis of PET assisted by tributylhexadecylphosphonium bromide. <i>Chemical Engineering Journal</i> , 2009, 146, 287-294. | 12.7 | 56 |
| 43 | Cu-zeolite NH ₃ -SCR catalysts for NO _x removal in the combined NSR-SCR technology. <i>Chemical Engineering Journal</i> , 2012, 207-208, 10-17. | 12.7 | 56 |
| 44 | Behaviour of Rh supported on hydroxyapatite catalysts in partial oxidation and steam reforming of methane: On the role of the speciation of the Rh particles. <i>Applied Catalysis A: General</i> , 2018, 556, 191-203. | 4.3 | 56 |
| 45 | Dealuminated Y Zeolites for Destruction of Chlorinated Volatile Organic Compounds. <i>Journal of Catalysis</i> , 2002, 209, 145-150. | 6.2 | 54 |
| 46 | Synthesis of cordierite monolithic honeycomb by solid state reaction of precursor oxides. <i>Journal of Materials Science</i> , 1999, 34, 1999-2002. | 3.7 | 52 |
| 47 | Influence of particle size distribution of precursor oxides on the synthesis of cordierite by solid-state reaction. <i>Powder Technology</i> , 2005, 153, 34-42. | 4.2 | 52 |
| 48 | Analysis of the simultaneous catalytic combustion of chlorinated aliphatic pollutants and toluene over ceria-zirconia mixed oxides. <i>Applied Catalysis A: General</i> , 2006, 314, 54-63. | 4.3 | 50 |
| 49 | The reaction pathway and kinetic mechanism of the catalytic oxidation of gaseous lean TCE on Pd/alumina catalysts. <i>Journal of Catalysis</i> , 2003, 214, 130-135. | 6.2 | 47 |
| 50 | Tailoring dual redox-acid functionalities in VO _x /TiO ₂ /ZSM5 catalyst for simultaneous abatement of PCDD/Fs and NO _x from municipal solid waste incineration. <i>Applied Catalysis B: Environmental</i> , 2017, 205, 310-318. | 20.2 | 47 |
| 51 | Oxidation of residual methane from VNG vehicles over Co ₃ O ₄ -based catalysts: Comparison among bulk, Al ₂ O ₃ -supported and Ce-doped catalysts. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 844-854. | 20.2 | 47 |
| 52 | Oxidative destruction of dichloromethane over protonic zeolites. <i>AIChE Journal</i> , 2003, 49, 496-504. | 3.6 | 46 |
| 53 | Kinetic considerations of three-way catalysis in automobile exhaust converters. <i>Applied Catalysis B: Environmental</i> , 2001, 32, 243-256. | 20.2 | 45 |
| 54 | Kinetic analysis of non-catalytic and Mn-catalysed combustion of diesel soot surrogates. <i>Applied Catalysis B: Environmental</i> , 2005, 61, 150-158. | 20.2 | 45 |

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|----|---|------|-----------|
| 55 | Pt/Ce _{0.68} Zr _{0.32} O ₂ Washcoated Monoliths for Automotive Emission Control. <i>Industrial & Engineering Chemistry Research</i> , 2003, 42, 311-317. | 3.7 | 44 |
| 56 | Enhanced coagulation under changing alkalinity-hardness conditions and its implications on trihalomethane precursors removal and relationship with UV absorbance. <i>Separation and Purification Technology</i> , 2007, 55, 368-380. | 7.9 | 44 |
| 57 | Ni/LnO _x Catalysts (Ln=La, Ce or Pr) for CO ₂ Methanation. <i>ChemCatChem</i> , 2019, 11, 810-819. | 3.7 | 44 |
| 58 | A kinetic study of the combustion of porous synthetic soot. <i>Chemical Engineering Journal</i> , 2007, 129, 41-49. | 12.7 | 43 |
| 59 | Metal-loaded ZSM5 zeolites for catalytic purification of dioxin/furans and NO containing exhaust gases from MWI plants: Effect of different metal cations. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 238-245. | 20.2 | 43 |
| 60 | Gas-phase catalytic combustion of chlorinated VOC binary mixtures. <i>Applied Catalysis B: Environmental</i> , 2003, 45, 13-21. | 20.2 | 41 |
| 61 | Kinetics of Pd/alumina catalysed 1,2-dichloroethane gas-phase oxidation. <i>Chemical Engineering Science</i> , 2006, 61, 3564-3576. | 3.8 | 41 |
| 62 | CO elimination processes over promoter-free hydroxyapatite supported palladium catalysts. <i>Applied Catalysis B: Environmental</i> , 2017, 201, 189-201. | 20.2 | 40 |
| 63 | Role of surface vanadium oxide coverage support on titania for the simultaneous removal of o-dichlorobenzene and NO _x from waste incinerator flue gas. <i>Catalysis Today</i> , 2015, 254, 2-11. | 4.4 | 39 |
| 64 | Transformations of manganese oxides under different thermal conditions. <i>Journal of Thermal Analysis</i> , 1996, 47, 93-102. | 0.6 | 38 |
| 65 | A kinetic study of the depolymerisation of poly(ethylene terephthalate) by phase transfer catalysed alkaline hydrolysis. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 92-99. | 3.2 | 37 |
| 66 | Catalytic activity of regenerated catalyst after the oxidation of 1,2-dichloroethane and trichloroethylene. <i>Chemical Engineering Journal</i> , 2014, 241, 200-206. | 12.7 | 36 |
| 67 | Effect of vanadia loading on acidic and redox properties of VO _x /TiO ₂ for the simultaneous abatement of PCDD/Fs and NO _x . <i>Journal of Industrial and Engineering Chemistry</i> , 2020, 81, 440-450. | 5.8 | 36 |
| 68 | Natural Organic Matter Adsorption onto Granular Activated Carbons: Implications in the Molecular Weight and Disinfection Byproducts Formation. <i>Industrial & Engineering Chemistry Research</i> , 2008, 47, 7868-7876. | 3.7 | 35 |
| 69 | Influence of ceria loading on the NO _x storage and reduction performance of model Pt-Ba/Al ₂ O ₃ NSR catalyst. <i>Catalysis Today</i> , 2015, 241, 133-142. | 4.4 | 35 |
| 70 | Nickel on silica systems. Surface features and their relationship with support, preparation procedure and nickel content. <i>Applied Catalysis A: General</i> , 1997, 162, 269-280. | 4.3 | 34 |
| 71 | Influence of the preparation procedure of NSR monolithic catalysts on the Pt-Ba dispersion and distribution. <i>Applied Catalysis A: General</i> , 2009, 363, 73-80. | 4.3 | 34 |
| 72 | Effect of operation conditions in the pervaporation of ethanol-water mixtures with poly(1-trimethylsilyl-1-propyne) membranes. <i>Journal of Applied Polymer Science</i> , 2004, 94, 1395-1403. | 2.6 | 33 |

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|----|---|------|-----------|
| 73 | Strontium doping and impregnation onto alumina improve the NO _x storage and reduction capacity of LaCoO ₃ perovskites. <i>Catalysis Today</i> , 2019, 333, 208-218. | 4.4 | 33 |
| 74 | Effects of redox thermal treatments and feedstream composition on the activity of Ce/Zr mixed oxides for TWC applications. <i>Applied Catalysis B: Environmental</i> , 2000, 25, 19-29. | 20.2 | 32 |
| 75 | Catalytic combustion of chlorinated ethylenes over H-zeolites. <i>Journal of Chemical Technology and Biotechnology</i> , 2003, 78, 15-22. | 3.2 | 32 |
| 76 | Regeneration mechanism of a Lean NO _x Trap (LNT) catalyst in the presence of NO investigated using isotope labelling techniques. <i>Journal of Catalysis</i> , 2012, 285, 177-186. | 6.2 | 32 |
| 77 | Steam gasification of printed circuit board from e-waste: Effect of coexisting nickel to hydrogen production. <i>Fuel Processing Technology</i> , 2015, 133, 69-74. | 7.2 | 32 |
| 78 | Steady-state NH ₃ -SCR global model and kinetic parameter estimation for NO _x removal in diesel engine exhaust aftertreatment with Cu/chabazite. <i>Catalysis Today</i> , 2017, 296, 95-104. | 4.4 | 32 |
| 79 | The effect of mixed oxidants and powdered activated carbon on the removal of natural organic matter. <i>Journal of Hazardous Materials</i> , 2010, 181, 426-431. | 12.4 | 31 |
| 80 | Strategies to enhance the stability of h-bea zeolite in the catalytic oxidation of Cl-VOCs: 1,2-Dichloroethane. <i>Catalysis Today</i> , 2013, 213, 192-197. | 4.4 | 31 |
| 81 | Preparation and characterisation of CuO/Al ₂ O ₃ films deposited onto stainless steel microgrids for CO oxidation. <i>Applied Catalysis B: Environmental</i> , 2014, 160-161, 629-640. | 20.2 | 31 |
| 82 | Influence of the calcination temperature on the activity of hydroxyapatite-supported palladium catalyst in the methane oxidation reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 277, 119280. | 20.2 | 31 |
| 83 | Catalytic oxidation of trichloroethylene over Fe-zeolites. <i>Catalysis Today</i> , 2011, 176, 357-360. | 4.4 | 30 |
| 84 | Control of NO storage and reduction in NSR bed for designing combined NSR+SCR systems. <i>Catalysis Today</i> , 2011, 172, 66-72. | 4.4 | 30 |
| 85 | Design of active sites in Ni/CeO ₂ catalysts for the methanation of CO ₂ : tailoring the Ni-CeO ₂ contact. <i>Applied Materials Today</i> , 2020, 19, 100591. | 4.3 | 30 |
| 86 | Bimodal effect of water on V ₂ O ₅ /TiO ₂ catalysts with different vanadium species in the simultaneous NO reduction and 1,2-dichlorobenzene oxidation. <i>Chemical Engineering Journal</i> , 2021, 417, 129013. | 12.7 | 29 |
| 87 | Study on the promotional effect of lanthana addition on the performance of hydroxyapatite-supported Ni catalysts for the CO ₂ methanation reaction. <i>Applied Catalysis B: Environmental</i> , 2022, 314, 121500. | 20.2 | 29 |
| 88 | Activity and Selectivity of Palladium Catalysts during the Liquid-Phase Hydrogenation of Phenol. Influence of Temperature and Pressure. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 1031-1036. | 3.7 | 28 |
| 89 | Pd-doped or Pd impregnated 30% La _{0.7} Sr _{0.3} CoO ₃ /Al ₂ O ₃ catalysts for NO _x storage and reduction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118052. | 20.2 | 27 |
| 90 | Tuning operational conditions for efficient NO _x storage and reduction over a Pt+Ba/Al ₂ O ₃ monolith catalyst. <i>Applied Catalysis B: Environmental</i> , 2010, 96, 329-337. | 20.2 | 26 |

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|-----|--|------|-----------|
| 91 | Tuning basicity of dual function materials widens operation temperature window for efficient CO ₂ adsorption and hydrogenation to CH ₄ . <i>Journal of CO₂ Utilization</i> , 2022, 58, 101922. | 6.8 | 26 |
| 92 | Selectivity of high surface area Ce _{0.68} Zr _{0.32} O ₂ for the new generation of TWC under environments with different redox character. <i>Applied Catalysis B: Environmental</i> , 2001, 33, 303-314. | 20.2 | 25 |
| 93 | FT-IR study of NO _x storage mechanism over Pt/BaO/Al ₂ O ₃ catalysts. Effect of the Pt-BaO interaction. <i>Topics in Catalysis</i> , 2007, 42-43, 37-41. | 2.8 | 25 |
| 94 | Performance of NO storage-reduction catalyst in the temperature-reductant concentration domain by response surface methodology. <i>Chemical Engineering Journal</i> , 2011, 169, 58-67. | 12.7 | 25 |
| 95 | On the effect of reduction and ageing on the TWC activity of Pd/Ce _{0.68} Zr _{0.32} O ₂ under simulated automotive exhausts. <i>Catalysis Today</i> , 2012, 180, 88-95. | 4.4 | 25 |
| 96 | Behaviour of nickel-alumina spinel (NiAl ₂ O ₄) catalysts for isooctane steam reforming. <i>International Journal of Hydrogen Energy</i> , 2015, 40, 5281-5288. | 7.1 | 25 |
| 97 | Oxidative Steam Reforming and Steam Reforming of Methane, Isooctane, and <i>n</i> -Tetradecane over an Alumina Supported Spinel-Derived Nickel Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2016, 55, 3920-3929. | 3.7 | 25 |
| 98 | Mechanism and kinetics in catalytic hydrocracking of polystyrene in solution. <i>Polymer Degradation and Stability</i> , 2016, 124, 51-59. | 5.8 | 25 |
| 99 | Enhancing the CO ₂ methanation activity of γ -Al ₂ O ₃ supported mono- and bi-metallic catalysts prepared by glycerol assisted impregnation. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120322. | 20.2 | 25 |
| 100 | Oxidation of lean methane over cobalt catalysts supported on ceria/alumina. <i>Applied Catalysis A: General</i> , 2020, 591, 117381. | 4.3 | 24 |
| 101 | Alternate cycles of CO ₂ storage and <i>in situ</i> hydrogenation to CH ₄ on Ni ₂ CO ₃ /Al ₂ O ₃ : influence of promoter addition and calcination temperature. <i>Sustainable Energy and Fuels</i> , 2021, 5, 1194-1210. | 4.9 | 24 |
| 102 | Preparation, activity and durability of promoted platinum catalysts for automotive exhaust control. <i>Applied Catalysis B: Environmental</i> , 1994, 3, 191-204. | 20.2 | 23 |
| 103 | Effect of thermal treatments on surface chemical distribution and catalyst activity in nickel on silica systems. <i>Journal of Molecular Catalysis A</i> , 1997, 120, 185-196. | 4.8 | 23 |
| 104 | Pervaporation of 50 wt % ethanol-water mixtures with poly(1-trimethylsilyl-1-propyne) membranes at high temperatures. <i>Journal of Applied Polymer Science</i> , 2007, 103, 2843-2848. | 2.6 | 23 |
| 105 | Controlling the selectivity to N ₂ O over Pt/Ba/Al ₂ O ₃ NO _x storage/reduction catalysts. <i>Catalysis Today</i> , 2011, 176, 324-327. | 4.4 | 23 |
| 106 | Evaluation of Cu/SAPO-34 Catalysts Prepared by Solid-State and Liquid Ion-Exchange Methods for NO _x Removal by NH ₃ -SCR. <i>ACS Omega</i> , 2019, 4, 14699-14713. | 3.5 | 23 |
| 107 | On the beneficial effect of MgO promoter on the performance of Co ₃ O ₄ /Al ₂ O ₃ catalysts for combustion of dilute methane. <i>Applied Catalysis A: General</i> , 2019, 582, 117099. | 4.3 | 23 |
| 108 | Thermokinetic modeling of the combustion of carbonaceous particulate matter. <i>Combustion and Flame</i> , 2006, 144, 398-406. | 5.2 | 22 |

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|-----|---|------|-----------|
| 109 | Influence of the washcoat characteristics on NH ₃ -SCR behavior of Cu-zeolite monoliths. <i>Catalysis Today</i> , 2013, 216, 82-89. | 4.4 | 22 |
| 110 | High external surface Pt/zeolite catalysts for improving polystyrene hydrocracking. <i>Catalysis Today</i> , 2014, 227, 163-170. | 4.4 | 22 |
| 111 | Modeling the CO ₂ capture and in situ conversion to CH ₄ on dual function Ru-Na ₂ CO ₃ /Al ₂ O ₃ catalyst. <i>Journal of CO₂ Utilization</i> , 2020, 42, 101351. | 6.8 | 22 |
| 112 | Platinum supported on lanthana-modified hydroxyapatite samples for realistic WGS conditions: On the nature of the active species, kinetic aspects and the resistance to shut-down/start-up cycles. <i>Applied Catalysis B: Environmental</i> , 2020, 270, 118851. | 20.2 | 22 |
| 113 | Tailoring perovskite surface composition to design efficient lean NO _x trap Pd-La _{1-x} A _x CoO ₃ /Al ₂ O ₃ -type catalysts (with A = Sr or Ba). <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118628. | 20.2 | 22 |
| 114 | On the Cu species in Cu/beta catalysts related to DeNO _x performance of coupled NSR-SCR technology using sequential monoliths and dual-layer monolithic catalysts. <i>Catalysis Today</i> , 2016, 273, 72-82. | 4.4 | 21 |
| 115 | Catalytic performance of Cu/hydroxyapatite catalysts in CO preferential oxidation in H ₂ -rich stream. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 12649-12660. | 7.1 | 21 |
| 116 | Pd supported catalyst for gas-phase 1,2-dichloroethane abatement: Efficiency and high selectivity towards oxygenated products. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 57, 77-88. | 5.8 | 20 |
| 117 | Removal and structural changes in natural organic matter in a Spanish water treatment plant using nascent chlorine. <i>Separation and Purification Technology</i> , 2007, 57, 152-160. | 7.9 | 19 |
| 118 | Adsorption and oxidation of trichloroethylene on Ce/Zr mixed oxides: In situ FTIR and flow studies. <i>Catalysis Communications</i> , 2008, 9, 2018-2021. | 3.3 | 19 |
| 119 | Optimal inlet temperature trajectories for adiabatic packed reactors with catalyst decay. <i>Chemical Engineering Science</i> , 1992, 47, 1495-1501. | 3.8 | 18 |
| 120 | Influence of Operational Variables on the Catalytic Behavior of Pt/Alumina in the Slurry-Phase Hydrogenation of Phenol. <i>Industrial & Engineering Chemistry Research</i> , 1994, 33, 2571-2577. | 3.7 | 18 |
| 121 | Characterization of the catalytic properties of ceria-zirconia mixed oxides by temperature-programmed techniques. <i>Journal of Thermal Analysis and Calorimetry</i> , 2005, 80, 225-228. | 3.6 | 18 |
| 122 | Catalytic properties of cobalt-promoted Pd/HAP catalyst for CO-cleanup of H ₂ -rich stream. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 16949-16958. | 7.1 | 18 |
| 123 | Water-gas shift reaction over a novel Cu-ZnO/HAP formulation: Enhanced catalytic performance in mobile fuel cell applications. <i>Applied Catalysis A: General</i> , 2018, 566, 1-14. | 4.3 | 18 |
| 124 | Perovskite-Based Catalysts as Efficient, Durable, and Economical NO _x Storage and Reduction Systems. <i>Catalysts</i> , 2020, 10, 208. | 3.5 | 18 |
| 125 | Kinetics of the selective hydrogenation of phenol to cyclohexanone over a Pd-alumina catalyst. <i>Reaction Kinetics and Catalysis Letters</i> , 1986, 32, 505-512. | 0.6 | 17 |
| 126 | Reactivation of aged model Pd/Ce _{0.68} Zr _{0.32} O ₂ three-way catalyst by high temperature oxidising treatment. <i>Chemical Communications</i> , 2004, , 196-197. | 4.1 | 17 |

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|-----|---|------|-----------|
| 127 | Screening of Fe-Cu-Zeolites Prepared by Different Methodology for Application in NSR-SCR Combined DeNO _x Systems. Topics in Catalysis, 2013, 56, 215-221. | 2.8 | 17 |
| 128 | Intrinsic kinetics of CO ₂ methanation on low-loaded Ni/Al ₂ O ₃ catalyst: Mechanism, model discrimination and parameter estimation. Journal of CO ₂ Utilization, 2022, 57, 101888. | 6.8 | 17 |
| 129 | Kinetics of the Catalytic Oxidation of Lean Trichloroethylene in Air over Pd/Alumina. Industrial & Engineering Chemistry Research, 2003, 42, 6007-6011. | 3.7 | 16 |
| 130 | Effect of the presence of n-hexane on the catalytic combustion of chlororganics over ceria-zirconia mixed oxides. Catalysis Today, 2005, 107-108, 933-941. | 4.4 | 16 |
| 131 | Design of CeO ₂ -supported LaNiO ₃ perovskites as precursors of highly active catalysts for CO ₂ methanation. Catalysis Science and Technology, 2021, 11, 6065-6079. | 4.1 | 16 |
| 132 | Application of Differential Scanning Calorimetry to the Reduction of Several Manganese Oxides. Magyar Árvad Kémlemlenyek, 1998, 52, 985-989. | 1.4 | 15 |
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