# Daniel Duprez

List of Publications by Year
in descending order



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|---|---|---|---|
| 281 papers | 14,425 citations | 16411 64 h-index | 26548 107 g-index |
| 304 all docs | 304 docs citations | 304 times ranked | 10792 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Catalytic Oxidation of Carbon Monoxide over Transition Metal Oxides. ChemCatChem, 2011, 3, 24-65. | 1.8 | 821 |
| 2 | Perovskites as Substitutes of Noble Metals for Heterogeneous Catalysis: Dream or Reality. Chemical Reviews, 2014, 114, 10292-10368. | 23.0 | 685 |
| 3 | Mobility of Surface Species on Oxides. 1. Isotopic Exchange of 18O2 with 16O of SiO2, Al2O3, ZrO2, MgO, CeO2, and CeO2-Al2O3. Activation by Noble Metals. Correlation with Oxide Basicity. The Journal of Physical Chemistry, 1996, 100, 9429-9438. | 2.9 | 369 |
| 4 | Ceriaâ€Based Solid Catalysts for Organic Chemistry. ChemSusChem, 2010, 3, 654-678. | 3.6 | 338 |
| 5 | Bio-ethanol catalytic steam reforming over supported metal catalysts. Catalysis Communications, 2002, 3, 263-267. | 1.6 | 333 |
| 6 | Oxygen Mobility in CeO2and CexZr(1-x)O2Compounds:Â Study by CO Transient Oxidation and18O/16O Isotopic Exchange. Journal of Physical Chemistry B, 1999, 103, 10999-11006. | 1.2 | 303 |
| 7 | Interactions of CO with Pt/ceria catalysts. Applied Catalysis B: Environmental, 1999, 22, 215-230. | 10.8 | 265 |
| 8 | Noble metal catalysts for the preferential oxidation of carbon monoxide in the presence of hydrogen (PROX). Applied Catalysis B: Environmental, 2004, 54, 59-66. | 10.8 | 245 |
| 9 | Preferential Oxidation of Carbon Monoxide in the Presence of Hydrogen (PROX) over Noble Metals and Transition Metal Oxides: Advantages and Drawbacks. Topics in Catalysis, 2008, 51, 76-88. | 1.3 | 230 |
| 10 | Supported base metal catalysts for the preferential oxidation of carbon monoxide in the presence of excess hydrogen (PROX). Applied Catalysis B: Environmental, 2005, 58, 175-183. | 10.8 | 221 |
| 11 | Preferential oxidation of carbon monoxide in the presence of hydrogen (PROX) over ceria?zirconia and alumina-supported Pt catalysts. Journal of Catalysis, 2004, 225, 259-266. | 3.1 | 192 |
| 12 | In situ Raman and in situ XRD analysis of PdO reduction and PdÂ° oxidation supported on Î³-Al2O3 catalyst under different atmospheres. Physical Chemistry Chemical Physics, 2011, 13, 4607. | 1.3 | 190 |
| 13 | Preparation of zirconiaâ€“ceria materials by soft chemistry. Catalysis Today, 1999, 50, 261-270. | 2.2 | 180 |
| 14 | Ethanol steam reforming over MgxNi1â^'xAl2O3 spinel oxide-supported Rh catalysts. Journal of Catalysis, 2005, 233, 464-477. | 3.1 | 179 |
| 15 | Catalytic oxidation of organic compounds in aqueous media. Catalysis Today, 1996, 29, 317-322. | 2.2 | 177 |
| 16 | Steam effects in three-way catalysis. Applied Catalysis B: Environmental, 1994, 4, 105-140. | 10.8 | 175 |
| 17 | Wet Air Oxidation of nitrogen-containing organic compounds and ammonia in aqueous media. Applied Catalysis B: Environmental, 2003, 40, 163-184. | 10.8 | 169 |
| 18 | Oxygen storage capacity of La1â^'xAâ€²xBO3 perovskites (with Aâ€²=Sr, Ce; B=Co, Mn)â€"relation with catalytic activity in the CH4 oxidation reaction. Applied Catalysis B: Environmental, 2005, 58, 273-288. | 10.8 | 152 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Investigation of the oxygen storage process on ceria- and ceriaâ€“zirconia-supported catalysts. Catalysis Today, 2002, 75, 401-405. | 2.2 | 148 |
| 20 | Effect of the preparation method on the properties of zirconia-ceria materials. Journal of Materials Chemistry, 1999, 9, 1615-1620. | 6.7 | 143 |
| 21 | Composition-Dependent Morphostructural Properties of Niâ€“Cu Oxide Nanoparticles Confined within the Channels of Ordered Mesoporous SBA-15 Silica. ACS Applied Materials & Interfaces, 2013, 5, 3010-3025. | 4.0 | 140 |
| 22 | Evaluation of the acid-base surface properties of several oxides and supported metal catalysts by means of model reactions. Journal of Molecular Catalysis A, 1997, 118, 113-128. | 4.8 | 138 |
| 23 | Oxidation of carbon monoxide, propene, propane and methane over a Pd/Al2O3 catalyst. Effect of the chemical state of Pd. Applied Catalysis B: Environmental, 1997, 14, 85-95. | 10.8 | 137 |
| 24 | Total oxidation of acetic acid in aqueous solutions over noble metal catalysts. Journal of Catalysis, 1998, 177, 378-385. | 3.1 | 136 |
| 25 | Oxygen storage capacity of promoted Rh/CeC2 catalysts. Exceptional behavior of RhCu/CeO2. Catalysis Letters, 1993, 22, 343-350. | 1.4 | 126 |
| 26 | Highly active and stable Ni dispersed on mesoporous CeO2-Al2O3 catalysts for production of syngas by dry reforming of methane. Applied Catalysis B: Environmental, 2021, 281, 119459. | 10.8 | 123 |
| 27 | An Efficient Route to Highly Organized, Tunable Macroporousâ€'Mesoporous Alumina. Journal of the American Chemical Society, 2009, 131, 12896-12897. | 6.6 | 121 |
| 28 | Kinetic and Spectroscopic Characterization of Cluster-Derived Supported Ptâ€“Au Catalysts. Journal of Catalysis, 2002, 212, 125-135. | 3.1 | 120 |
| 29 | Infrared Study of Oxygen Adsorption and Activation on Ceriumâ€“Zirconium Mixed Oxides. Journal of Catalysis, 2000, 196, 167-173. | 3.1 | 117 |
| 30 | Role of bulk and grain boundary oxygen mobility in the catalytic oxidation activity of LaCo1â€“xFexO3. Journal of Catalysis, 2005, 234, 364-375. | 3.1 | 117 |
| 31 | Catalytic oxidation of heavy hydrocarbons over Pt/Al2O3. Influence of the structure of the molecule on its reactivity. Applied Catalysis B: Environmental, 2010, 95, 217-227. | 10.8 | 102 |
| 32 | Catalytic wet air oxidation of phenol and acrylic acid over Ru/C and Ruâ€“CeO2/C catalysts. Applied Catalysis B: Environmental, 2000, 25, 267-275. | 10.8 | 101 |
| 33 | Oxygen mobility in LaCoO3 perovskites. Catalysis Today, 2006, 112, 99-102. | 2.2 | 99 |
| 34 | Modulating the copper oxide morphology and accessibility by using micro-/mesoporous SBA-15 structures as host support: Effect on the activity for the CWPO of phenol reaction. Applied Catalysis B: Environmental, 2012, 121-122, 123-134. | 10.8 | 98 |
| 35 | Oxygen storage capacity measurements of three-way catalysts under transient conditions. Applied Catalysis A: General, 2002, 223, 287-299. | 2.2 | 97 |
| 36 | Catalytic wet air oxidation of ammonia over M/CeO2 catalysts in the treatment of nitrogen-containing pollutants. Catalysis Today, 2002, 75, 29-34. | 2.2 | 96 |

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| 37 | Shape-controlled nanostructured magnetite-type materials as highly efficient Fenton catalysts. Applied Catalysis B: Environmental, 2014, 144, 739-749. | 10.8 | 95 |
| 38 | Selective steam reforming of aromatic compounds on metal catalysts. Applied Catalysis A: General, 1992, 82, 111-157. | 2.2 | 91 |
| 39 | Influence of lanthanum stoichiometry in La1â^'xFeO3â^'Î´ perovskites on their structure and catalytic performance in CH4 total oxidation. Applied Catalysis B: Environmental, 2012, 126, 134-143. | 10.8 | 91 |
| 40 | Mobility of Surface Species on Oxides. 2. Isotopic Exchange of D2 with H of SiO2, Al2O3, ZrO2, MgO, and CeO2:â€‰ Activation by Rhodium and Effect of Chlorine. Journal of Physical Chemistry B, 1997, 101, 4428-4436. | 1.2 | 90 |
| 41 | Design of Nanocatalysts for Green Hydrogen Production from Bioethanol. ChemSusChem, 2012, 5, 76-84. | 3.6 | 89 |
| 42 | Reactivity of steam in exhaust gas catalysis I. Steam and oxygen/steam conversions of carbon monoxide and of propane over PtRh catalysts. Applied Catalysis B: Environmental, 1993, 3, 61-83. | 10.8 | 87 |
| 43 | Oxygen surface mobility and isotopic exchange on oxides: role of the nature and the structure of metal particles. Applied Catalysis A: General, 2000, 202, 231-241. | 2.2 | 86 |
| 44 | Wet air oxidation of aqueous solutions of maleic acid over Ru/CeO2 catalysts. Applied Catalysis B: Environmental, 2001, 35, 1-12. | 10.8 | 86 |
| 45 | Hydrogen formation in the reaction of steam with Rh/CeO2 catalysts: a tool for characterising reduced centres of ceria. Journal of Catalysis, 2003, 213, 226-234. | 3.1 | 84 |
| 46 | Dynamic oxygen mobility and a new insight into the role of Zr atoms in three-way catalysts of Pt/CeO2â€“ZrO2. Catalysis Today, 2004, 93-95, 827-832. | 2.2 | 84 |
| 47 | A Study of <sup>15</sup>N/<sup>14</sup>N Isotopic Exchange over Cobalt Molybdenum Nitrides. ACS Catalysis, 2013, 3, 1719-1725. | 5.5 | 83 |
| 48 | Steam dealkylation of aromatic hydrocarbons II. Role of the support and kinetic pathway of oxygenated species in toluene steam dealkylation over group VIII metal catalysts. Journal of Catalysis, 1982, 75, 151-163. | 3.1 | 82 |
| 49 | Synthesis of highly thermostable copper-nickel nanoparticles confined in the channels of ordered mesoporous SBA-15 silica. Journal of Materials Chemistry, 2011, 21, 12529. | 6.7 | 82 |
| 50 | Ethanol steam reforming over Rh/CexZr1â^'xO2 catalysts: Impact of the COâ€“CO2â€“CH4 interconversion reactions on the H2 production. Applied Catalysis B: Environmental, 2008, 79, 17-25. | 10.8 | 81 |
| 51 | Structural changes of Ceâ€“Prâ€“O oxides in hydrogen: a study by in situ X-ray diffraction and Raman spectroscopy. Journal of Materials Chemistry, 2003, 13, 3017-3020. | 6.7 | 79 |
| 52 | Oxygen Storage and Mobility on Model Three-Way Catalysts. Topics in Catalysis, 2001, 16/17, 49-56. | 1.3 | 77 |
| 53 | A Model of Oxygen Transport in Pt/Ceria Catalysts from Isotope Exchange. Journal of Catalysis, 1999, 182, 441-448. | 3.1 | 74 |
| 54 | Composition-Dependent Performance of Ce<sub>x</sub>Zr<sub>1â€“x</sub>O<sub>2</sub> Mixed-Oxide-Supported WO<sub>3</sub> Catalysts for the NO<sub>x</sub> Storage Reductionâ€“Selective Catalytic Reduction Coupled Process. ACS Catalysis, 2013, 3, 1120-1132. | 5.5 | 74 |

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| 55 | Deactivation of steam-reforming model catalysts by coke formation I. Kinetics of the Formation of Filamentous Carbon in the Hydrogenolysis of cyclopentane on Ni/Al2O3 Catalysts. Journal of Catalysis, 1990, 124, 324-335. | 3.1 | 72 |
| 56 | Activity of perovskite-type mixed oxides for the low-temperature CO oxidation: Evidence of oxygen species participation from the solid. Journal of Catalysis, 2012, 295, 45-58. | 3.1 | 72 |
| 57 | Preparation and characterization of bimetallic Rh-Ni/Y2O3-Al2O3 for hydrogen production by raw bioethanol steam reforming: influence of the addition of nickel on the catalyst performances and stability. Applied Catalysis B: Environmental, 2010, 97, 72-81. | 10.8 | 70 |
| 58 | Synthesis, structure and catalytic properties of Zrâ€“Ceâ€“Prâ€“O mixed oxides. Journal of Materials Chemistry, 2001, 11, 2587-2592. | 6.7 | 67 |
| 59 | Cooperative effect between copper and gold on ceria for CO-PROX reaction. Catalysis Today, 2012, 180, 34-41. | 2.2 | 67 |
| 60 | In Situ Fourier Transform Infrared Study of the Selective Reduction of NO with Propene over Ga2O3â€“Al2O3. Journal of Catalysis, 2002, 206, 114-124. | 3.1 | 66 |
| 61 | Ruthenium and platinum catalysts supported on Ce, Zr, Pr-O mixed oxides prepared by soft chemistry for acetic acid wet air oxidation. Applied Catalysis B: Environmental, 2007, 72, 1-10. | 10.8 | 66 |
| 62 | Optimized CuOâ€“CeO2 catalysts for COPROX reaction. International Journal of Hydrogen Energy, 2008, 33, 1345-1353. | 3.8 | 66 |
| 63 | Evidence of the migration of oxygen species from Sb2O4 to MoO3 in MoO3-Sb2O4 selective oxidation catalysts. Journal of Molecular Catalysis, 1989, 52, 349-360. | 1.2 | 65 |
| 64 | Hydrogen production from raw bioethanol steam reforming: Optimization of catalyst composition with improved stability against various impurities. International Journal of Hydrogen Energy, 2010, 35, 5015-5020. | 3.8 | 64 |
| 65 | Role of Pd loading and dispersion on redox behaviour and CH4 combustion activity of Al2O3 supported catalysts. Catalysis Today, 2010, 155, 18-26. | 2.2 | 64 |
| 66 | New Aspects on the Mechanism of C<sub>3</sub>H<sub>6</sub> Selective Catalytic Reduction of NO in the Presence of O<sub>2</sub> over LaFe<sub>1â€“x</sub>(Cu,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (Pd)<sub>x</sub> | 4.6 | 64 |
| | 46, 11280-11288. | | |
| 67 | An overview of the production and use of ammonia in NSR+SCR coupled system for NOx reduction from lean exhaust gas. Catalysis Today, 2012, 197, 144-154. | 2.2 | 62 |
| 68 | A study of the deactivation by sulfur and regeneration of a model NSR Pt/Ba/Al2O3 catalyst. Applied Catalysis B: Environmental, 2005, 61, 236-243. | 10.8 | 60 |
| 69 | Towards the comprehension of oxygen storage processes on model three-way catalysts. Catalysis Today, 2002, 73, 233-238. | 2.2 | 59 |
| 70 | Les mÃ©thodes chromatographiques en catalyse hÃ©tÃ©rogÃ¨ne. Journal De Chimie Physique Et De Physico-Chimie Biologique, 1983, 80, 487-505. | 0.2 | 59 |
| 71 | Study of surface reaction mechanisms by 16O/18O and H/D isotopic exchange. Catalysis Today, 2006, 112, 17-22. | 2.2 | 58 |
| 72 | High catalytic activity and stability of Pd doped hexaaluminate catalysts for the CH4 catalytic combustion. Applied Catalysis B: Environmental, 2008, 77, 237-247. | 10.8 | 56 |

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|---|---|---|---|
| 73 | Effect of Pd precursor salt on the activity and stability of Pd-doped hexaaluminate catalysts for the CH4 catalytic combustion. Applied Catalysis B: Environmental, 2008, 81, 88-96. | 10.8 | 54 |
| 74 | NOx abatement for lean-burn engines under leanâ€“rich atmosphere over mixed NSR-SCR catalysts: Influences of the addition of a SCR catalyst and of the operational conditions. Applied Catalysis A: General, 2009, 365, 187-193. | 2.2 | 54 |
| 75 | NOx Selective Catalytic Reduction (NO<sub>x</sub>-SCR) by Urea: Evidence of the Reactivity of HNCO, Including a Specific Reaction Pathway for NOx Reduction Involving NO + NO<sub>2</sub>. ACS Catalysis, 2016, 6, 4064-4067. | 5.5 | 54 |
| 76 | Wet Air Oxidation of phenol over Pt and Ru catalysts supported on cerium-based oxides: Resistance to fouling and kinetic modelling. Applied Catalysis B: Environmental, 2014, 150-151, 402-410. | 10.8 | 53 |
| 77 | Wet air oxidation of acetic acid over platinum catalysts supported on cerium-based materials: Influence of metal and oxide crystallite size. Journal of Catalysis, 2007, 251, 172-181. | 3.1 | 52 |
| 78 | Role of ceria-supported noble metal catalysts (Ru, Pd, Pt) in wet air oxidation of nitrogen and oxygen containing compounds. Topics in Catalysis, 2005, 33, 77-86. | 1.3 | 51 |
| 79 | Hydrogen production from raw bioethanol over Rh/MgAl2O4 catalyst. Catalysis Today, 2008, 138, 169-174. | 2.2 | 51 |
| 80 | NOx storage and reduction properties of Pt/CexZr1â^'xO2 mixed oxides: Sulfur resistance and regeneration, and ammonia formation. Applied Catalysis B: Environmental, 2009, 93, 12-21. | 10.8 | 51 |
| 81 | Ethanol Steam Reforming over Rh(1%)MgAl2O4/Al2O3: A Kinetic Study. Industrial & Engineering Chemistry Research, 2010, 49, 12383-12389. | 1.8 | 51 |
| 82 | Study of surface mobility by isotopic exchange: recent developments and perspectives. Studies in Surface Science and Catalysis, 1997, 112, 13-28. | 1.5 | 49 |
| 83 | Ptâ€“Sn catalysts supported on highly-dispersed ceria on carbon. Journal of Molecular Catalysis A, 2007, 268, 227-234. | 4.8 | 49 |
| 84 | Preferential CO oxidation over nanosized gold catalysts supported on ceria and amorphous ceriaâ€“alumina. Applied Catalysis B: Environmental, 2012, 128, 10-20. | 10.8 | 49 |
| 85 | Characterizations of platinum catalysts supported on Ce, Zr, Pr-oxides and formation of carbonate species in catalytic wet air oxidation of acetic acid. Catalysis Today, 2007, 124, 185-190. | 2.2 | 48 |
| 86 | Deactivation phenomena during catalytic wet air oxidation (CWAO) of phenol over platinum catalysts supported on ceria and ceriaâ€“zirconia mixed oxides. Applied Catalysis B: Environmental, 2008, 84, 723-731. | 10.8 | 48 |
| 87 | Effect of higher alcohols on the performances of a 1%Rh/MgAl2O4/Al2O3 catalyst for hydrogen production by crude bioethanol steam reforming. International Journal of Hydrogen Energy, 2011, 36, 311-318. | 3.8 | 48 |
| 88 | Impact of cerium-based support oxides in catalytic wet air oxidation: Conflicting role of redox and acidâ€“base properties. Catalysis Today, 2015, 253, 89-98. | 2.2 | 48 |
| 89 | New Active and Selective Rhâ^'REOxâ^'Al2O3 Catalysts for Ethanol Steam Reforming. Journal of Physical Chemistry C, 2008, 112, 14145-14153. | 1.5 | 47 |
| 90 | Deactivation of Steam-Reforming Model Catalysts by Coke Formation .II. Promotion with Potassium and Effect of Water. Journal of Catalysis, 1994, 145, 437-449. | 3.1 | 46 |

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|---|---|---|---|
| 91 | Impact of the support oxide and Ba loading on the sulfur resistance and regeneration of Pt/Ba/support catalysts. Applied Catalysis B: Environmental, 2008, 80, 62-71. | 10.8 | 46 |
| 92 | Hydrogen formation in propane oxidation on Pt-Rh/CeO2/Al2O3 catalysts. Applied Catalysis A: General, 1992, 85, 89-100. | 2.2 | 45 |
| 93 | Characterization of the dynamic oxygen migration over Pt/CeO2-ZrO2 catalysts by 18O/16O isotopic exchange reaction. Catalysis Today, 2004, 90, 223-229. | 2.2 | 45 |
| 94 | Mechanism of stearic acid oxidation over nanocrystalline La1â^'xAâ€²xBO3La1â^'xAâ€²xBO3 (Aâ€²=Sr, Ce; B=Co,) Tj ETQq0 0 0 rgBT /O | 10.8 | 45 |
| 95 | Deactivation and reactivation of noble metal catalysts tested in the Catalytic Wet Air Oxidation of phenol. Catalysis Today, 2010, 151, 143-147. | 2.2 | 45 |
| 96 | High-surface-area zinc aluminate supported silver catalysts for low-temperature SCR of NO with ethanol. Applied Catalysis B: Environmental, 2012, 126, 275-289. | 10.8 | 45 |
| 97 | Selective steam reforming of aromatic hydrocarbons IV. Steam conversion and hydroconversion of selected monoalkyl- and dialkyl-benzenes on Rh catalysts. Journal of Catalysis, 1984, 90, 292-304. | 3.1 | 44 |
| 98 | Reactivity of steam in exhaust gas catalysis III. Steam and oxygen/steam conversions of propane on a Pd/Al2O3 catalyst. Applied Catalysis B: Environmental, 1996, 9, 251-266. | 10.8 | 42 |
| 99 | Properties of ceriumâ€“zirconium mixed oxides partially substituted by neodymium: Comparison with Zrâ€“Ceâ€“Prâ€“O ternary oxides. Journal of Solid State Chemistry, 2006, 179, 2511-2520. | 1.4 | 42 |
| 100 | New bifunctional catalytic systems for sorbitol transformation into biofuels. Applied Catalysis B: Environmental, 2014, 148-149, 499-508. | 10.8 | 42 |
| 101 | Effect of steam on the coking of platinum catalysts. Applied Catalysis, 1989, 49, 67-74. | 1.1 | 41 |
| 102 | Design and Use of a Batch Reactor for Catalytic Decomposition of Propellants. Journal of Propulsion and Power, 2003, 19, 213-219. | 1.3 | 41 |
| 103 | Cooperative effect of Ptâ€“Rh/Ba/Al and CuZSM-5 catalysts for NO reduction during periodic lean-rich atmosphere. Catalysis Communications, 2008, 10, 137-141. | 1.6 | 41 |
| 104 | Transformation of Sorbitol to Biofuels by Heterogeneous Catalysis: Chemical and Industrial Considerations. Oil and Gas Science and Technology, 2013, 68, 841-860. | 1.4 | 41 |
| 105 | New insights into the mechanism of sorbitol transformation over an original bifunctional catalytic system. Journal of Catalysis, 2014, 320, 16-25. | 3.1 | 41 |
| 106 | Catalytic wet air oxidation of stearic acid on cerium oxide supported noble metal catalysts. Applied Catalysis B: Environmental, 2005, 55, 1-10. | 10.8 | 40 |
| 107 | Title is missing!. Catalysis Letters, 1999, 60, 15-19. | 1.4 | 39 |
| 108 | Effects of Pretreatments on the Surface Composition of Alumina-Supported Pdâ€“Rh Catalysts. Journal of Catalysis, 2001, 202, 367-378. | 3.1 | 38 |

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|---|---|---|---|
| 109 | Promoting effect of cobalt and nickel on the activity of hydrotreating catalysts in hydrogenation and isomerization of olefins. Journal of Molecular Catalysis A, 2008, 293, 53-58. | 4.8 | 38 |
| 110 | Thermodynamic and experimental studies of catalytic reforming of exhaust gas recirculation in gasoline engines. Applied Catalysis B: Environmental, 2011, 102, 44-53. | 10.8 | 38 |
| 111 | Remarkable enhancement of the selective catalytic reduction of NO at low temperature by collaborative effect of ethanol and NH3 over silver supported catalyst. Applied Catalysis B: Environmental, 2018, 220, 19-30. | 10.8 | 38 |
| 112 | Influence of Na, P and (Naâ€‰+â€‰P) poisoning on a model copper-ferrierite NH3-SCR catalyst. Applied Catalysis B: Environmental, 2019, 250, 355-368. | 10.8 | 38 |
| 113 | Reaction intermediates in the selective reduction of NO with propene over Ga2O3-Al2O3 and In2O3-Al2O3 catalysts. Journal of Molecular Catalysis A, 2001, 175, 179-188. | 4.8 | 37 |
| 114 | Impact of support oxide and Ba loading on the NOx storage properties of Pt/Ba/support catalysts. Applied Catalysis B: Environmental, 2007, 76, 357-367. | 10.8 | 37 |
| 115 | Study of hydrogen surface mobility and hydrogenation reactions over alumina-supported palladium catalysts. Applied Catalysis A: General, 2008, 346, 36-43. | 2.2 | 37 |
| 116 | NOx removal efficiency and ammonia selectivity during the NOx storage-reduction process over Pt/BaO(Fe, Mn, Ce)/Al2O3 model catalysts. Part I: Influence of Fe and Mn addition. Applied Catalysis B: Environmental, 2011, 102, 353-361. | 10.8 | 36 |
| 117 | NOx removal efficiency and ammonia selectivity during the NOx storage-reduction process over Pt/BaO(Fe, Mn, Ce)/Al2O3 model catalysts. Part II: Influence of Ce and Mnâ€“Ce addition. Applied Catalysis B: Environmental, 2011, 102, 362-371. | 10.8 | 36 |
| 118 | Characterization of copper-zinc catalysts by hydrogen thermodesorption. correlation with activity in methanol synthesis.. Applied Catalysis, 1984, 12, 219-225. | 1.1 | 33 |
| 119 | The effects of support and of particle size on the redox properties of rhodium. Applied Catalysis A: General, 1995, 131, 297-307. | 2.2 | 33 |
| 120 | Surface characterization of alumina-supported catalysts prepared by solâ€“gel method. Part I. Acidâ€“base properties. Physical Chemistry Chemical Physics, 2001, 3, 1366-1370. | 1.3 | 33 |
| 121 | The chemistry of DeNOx reactions over Pt/Al2O3: The oxime route to N2 or N2O. Journal of Catalysis, 2006, 243, 252-262. | 3.1 | 33 |
| 122 | Hydrogen Production for Fuel Cells from the Catalytic Ethanol Steam Reforming. Topics in Catalysis, 2004, 30/31, 487-491. | 1.3 | 32 |
| 123 | Clear microstructureâ€“performance relationships in Mn-containing perovskite and hexaaluminate compounds prepared by activated reactive synthesis. Physical Chemistry Chemical Physics, 2014, 16, 4050. | 1.3 | 32 |
| 124 | Surface mobility and redox properties: Study of Pt/CeO2-ZrO2 catalysts. Studies in Surface Science and Catalysis, 2001, 138, 135-144. | 1.5 | 31 |
| 125 | Deactivation and regeneration of wet air oxidation catalysts. Catalysis Science and Technology, 2011, 1, 342. | 2.1 | 31 |
| 126 | Intermetallic compounds as catalysts for reactions of heterogeneous catalysis. Journal of the Less Common Metals, 1983, 89, 537-543. | 0.9 | 30 |

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| 127 | Surface mobility and reactivity of oxygen species on a copper-zinc catalyst in methanol synthesis. Journal of Catalysis, 1990, 124, 1-11. | 3.1 | 30 |
| 128 | Effect of Pretreatments in Various Atmospheres on the Transient DeNOxActivity of a Cu-MFI Catalyst. Journal of Catalysis, 1996, 160, 10-18. | 3.1 | 30 |
| 129 | OXYGEN STORAGE/REDOX CAPACITY AND RELATED PHENOMENA ON CERIA-BASED CATALYSTS. Catalytic Science Series, 2002, , 243-280. | 0.6 | 29 |
| 130 | Surface diffusion upon oxygen isotopic exchange on oxide-supported metal nanoclusters. Solid State Ionics, 2004, 166, 147-155. | 1.3 | 29 |
| 131 | Effect of reducing agent (C3H6, CO, H2) on the NOx conversion and selectivity during representative lean/rich cycles over monometallic platinum-based NSR catalysts. Influence of the support formulation. Applied Catalysis B: Environmental, 2014, 146, 12-23. | 10.8 | 29 |
| 132 | Kinetics of hydrogen adsorption and mobility on Ru nanoparticles supported on alumina: Effects on the catalytic mechanism of ammonia synthesis. Journal of Catalysis, 2016, 344, 16-28. | 3.1 | 29 |
| 133 | Exchange and oxidation of C16O on 18O-predosed Rhî—¸Al2O3 and Rhî—¸CeO2 catalysts. Catalysis Today, 1996, 29, 89-92. | 2.2 | 28 |
| 134 | Kinetic study of olefin hydrogenation on hydrotreating catalysts. Journal of Molecular Catalysis A, 2010, 320, 34-39. | 4.8 | 27 |
| 135 | Study of the stability of Pt/SiO2â€“Al2O3 catalysts in aqueous medium: Application for sorbitol transformation. Catalysis Communications, 2011, 15, 18-22. | 1.6 | 27 |
| 136 | Efficient and Robust Reforming Catalyst in Severe Reaction Conditions by Nanoprecursor Reduction in Confined Space. ChemSusChem, 2014, 7, 631-637. | 3.6 | 27 |
| 137 | Intermetallic compounds as heterogeneous catalysts. Applied Catalysis, 1983, 5, 99-107. | 1.1 | 26 |
| 138 | The effects of hydrogen pressure and temperature on the methylcyclopentane conversion on Rh catalysts. Catalysis Today, 2001, 65, 185-190. | 2.2 | 26 |
| 139 | Effect of palladium on the reducibility of Mn based materials: correlation with methane oxidation activity. Physical Chemistry Chemical Physics, 2008, 10, 5983. | 1.3 | 26 |
| 140 | Surface properties and thermal stability of SiO2-crystalline TiO2 nano-composites. Journal of Materials Chemistry, 2010, 20, 9205. | 6.7 | 26 |
| 141 | Synergetic effect of plasma/catalysis hybrid system for CH4 removal. Applied Catalysis B: Environmental, 2012, 113-114, 31-36. | 10.8 | 26 |
| 142 | The chemical state of palladium in alkene and acetylene oxidation. Applied Catalysis B: Environmental, 2001, 29, 195-205. | 10.8 | 25 |
| 143 | 16O/18O isotopic exchange: A powerful tool to investigate oxygen activation on M/CexZr1â^'xO2 catalysts. Applied Catalysis A: General, 2005, 289, 90-96. | 2.2 | 25 |
| 144 | Carbon monoxide oxidation over well-defined Pt/ZrO2 model catalysts: Bridging the material gap. Applied Surface Science, 2006, 253, 1310-1322. | 3.1 | 25 |

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| 145 | Design of nanocrystalline mixed oxides with improved oxygen mobility: a simple non-aqueous route to nano-LaFeO3 and the consequences on the catalytic oxidation performances. Chemical Communications, 2013, 49, 4923. | 2.2 | 25 |
| 146 | Remarkable Enhancement of O<sub>2</sub> Activation on Yttriumâ€Stabilized Zirconia Surface in a Dual Catalyst Bed. Angewandte Chemie - International Edition, 2014, 53, 11342-11345. | 7.2 | 25 |
| 147 | Ceria-supported Auâ€“CuO and Auâ€“Co 3 O 4 catalysts for CO oxidation: An 18 O/ 16 O isotopic exchange study. Applied Catalysis B: Environmental, 2015, 168-169, 87-97. | 10.8 | 25 |
| 148 | Experimental and Predictive Approach for Determining Wet Air Oxidation Reaction Pathways in Synthetic Wastewaters. Chemical Engineering Research and Design, 2003, 81, 384-392. | 2.7 | 24 |
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