

patrick Da Costa

List of Publications by Citations

Source: <https://exaly.com/author-pdf/2434292/patrick-da-costa-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

218
papers

5,321
citations

40
h-index

59
g-index

228
ext. papers

6,209
ext. citations

5.8
avg. IF

6.14
L-index

#	Paper	IF	Citations
218	La-promoted Ni-hydrotalcite-derived catalysts for dry reforming of methane at low temperatures. <i>Fuel</i> , 2016 , 182, 8-16	7.1	118
217	Photocatalytic degradation of methyl green dye in aqueous solution over natural clay-supported ZnO/TiO ₂ catalysts. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2016 , 315, 25-33	4.7	115
216	Spectroscopic and chemical characterization of active and inactive Cu species in NO decomposition catalysts based on Cu-ZSM5. <i>Physical Chemistry Chemical Physics</i> , 2002 , 4, 4590-4601	3.6	115
215	Ni-containing Ce-promoted hydrotalcite derived materials as catalysts for methane reforming with carbon dioxide at low temperature [On the effect of basicity. <i>Catalysis Today</i> , 2015 , 257, 59-65	5.3	113
214	Novel Ni-La-hydrotalcite derived catalysts for CO ₂ methanation. <i>Catalysis Communications</i> , 2016 , 83, 5-8	3.2	112
213	Hydrogen and syngas production by methane dry reforming on SBA-15 supported nickel catalysts: On the effect of promotion by Ce _{0.75} Zr _{0.25} O ₂ mixed oxide. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 127-139	6.7	96
212	Hybrid plasma-catalytic methanation of CO ₂ at low temperature over ceria zirconia supported Ni catalysts. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11584-11592	6.7	93
211	DRIFT study of the interaction of NO and O ₂ with the surface of Ce _{0.62} Zr _{0.38} O ₂ as deNO _x catalyst. <i>Catalysis Today</i> , 2008 , 137, 288-291	5.3	92
210	Enhanced catalytic stability through non-conventional synthesis of Ni/SBA-15 for methane dry reforming at low temperatures. <i>Applied Catalysis A: General</i> , 2015 , 504, 143-150	5.1	90
209	Methane dry reforming over hydrotalcite-derived Ni/Mg/Al mixed oxides: the influence of Ni content on catalytic activity, selectivity and stability. <i>Catalysis Science and Technology</i> , 2016 , 6, 6705-6715	5.5	90
208	Low temperature dry methane reforming over Ce, Zr and CeZr promoted Ni/Mg/Al hydrotalcite-derived catalysts. <i>International Journal of Hydrogen Energy</i> , 2016 , 41, 11616-11623	6.7	90
207	Kinetics and Mechanism of Steady-State Catalytic NO Decomposition Reactions on Cu/ZSM5. <i>Journal of Catalysis</i> , 2002 , 209, 75-86	7.3	88
206	A Short Review on the Catalytic Activity of Hydrotalcite-Derived Materials for Dry Reforming of Methane. <i>Catalysts</i> , 2017 , 7, 32	4	78
205	Fe-clay-plate as a heterogeneous catalyst in photo-Fenton oxidation of phenol as probe molecule for water treatment. <i>Applied Clay Science</i> , 2014 , 91-92, 46-54	5.2	75
204	Photocatalytic decolorization of cationic and anionic dyes over ZnO nanoparticle immobilized on natural Tunisian clay. <i>Applied Clay Science</i> , 2018 , 152, 148-157	5.2	74
203	Promotion effect of zirconia on Mg(Ni,Al)O mixed oxides derived from hydrotalcites in CO ₂ methane reforming. <i>Applied Catalysis B: Environmental</i> , 2018 , 223, 36-46	21.8	73
202	Influence of preparation methods of LaCoO ₃ on the catalytic performances in the decomposition of N ₂ O. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 596-604	21.8	72

201	The First Single-Step Immobilization of a Calix-[4]-arene onto the Surface of Silica. <i>Chemistry of Materials</i> , 2002 , 14, 3364-3368	9.6	72
200	Kinetics of catalyzed and non-catalyzed oxidation of soot from a diesel engine. <i>Catalysis Today</i> , 2007 , 119, 252-256	5.3	70
199	The influence of nickel content on the performance of hydrotalcite-derived catalysts in CO ₂ methanation reaction. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23548-23555	6.7	68
198	Synthesis strategies of ceria/zirconia doped Ni/SBA-15 catalysts for methane dry reforming. <i>Catalysis Communications</i> , 2015 , 59, 108-112	3.2	67
197	Kinetics and mechanism of steady-state catalytic NO + O ₂ reactions on Pt/SiO ₂ and Pt/CeZrO ₂ . <i>Journal of Molecular Catalysis A</i> , 2004 , 221, 127-136		61
196	Hydrodesulfurization of 4,6-dimethyldibenzothiophene over promoted (Ni,P) alumina-supported molybdenum carbide catalysts: activity and characterization of active sites. <i>Journal of Catalysis</i> , 2004 , 221, 365-377	7.3	60
195	Examination of the influence of La promotion on Ni state in hydrotalcite-derived catalysts under CO ₂ methanation reaction conditions: Operando X-ray absorption and emission spectroscopy investigation. <i>Applied Catalysis B: Environmental</i> , 2018 , 232, 409-419	21.8	58
194	Yttrium promoted Ni-based double-layered hydroxides for dry methane reforming. <i>Journal of CO₂ Utilization</i> , 2018 , 27, 247-258	7.6	58
193	On the role of organic nitrogen-containing species as intermediates in the hydrocarbon-assisted SCR of NO _x . <i>Applied Catalysis B: Environmental</i> , 2004 , 54, 69-84	21.8	58
192	Correlation between the surface properties and deNO _x activity of ceria-zirconia catalysts. <i>Applied Catalysis B: Environmental</i> , 2007 , 74, 278-289	21.8	56
191	Low temperature hybrid plasma-catalytic methanation over Ni-Ce-Zr hydrotalcite-derived catalysts. <i>Catalysis Communications</i> , 2016 , 83, 14-17	3.2	54
190	Syngas production from dry methane reforming over yttrium-promoted nickel-KIT-6 catalysts. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 274-286	6.7	52
189	Simultaneous soot temperature and volume fraction measurements in axis-symmetric flames by a two-dimensional modulated absorption/emission technique. <i>Combustion and Flame</i> , 2015 , 162, 2705-2719	5.3	51
188	Synthetic gas bench study of a natural gas vehicle commercial catalyst in monolithic form: On the effect of gas composition. <i>Applied Catalysis B: Environmental</i> , 2009 , 88, 386-397	21.8	51
187	Influence of Operational Parameters in the Heterogeneous Photo-Fenton Discoloration of Wastewaters in the Presence of an Iron-Pillared Clay. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 16656-16665	3.9	49
186	Plasma DBD activated ceria-zirconia-promoted Ni-catalysts for plasma catalytic CO ₂ hydrogenation at low temperature. <i>Catalysis Communications</i> , 2017 , 89, 73-76	3.2	48
185	Effects of a Pt/Ce _{0.68} Zr _{0.32} O ₂ catalyst and NO ₂ on the kinetics of diesel soot oxidation from thermogravimetric analyses. <i>Fuel Processing Technology</i> , 2011 , 92, 363-371	7.2	48
184	Impacts of oxygenated compounds concentration on sooting propensities and soot oxidative reactivity: Application to Diesel and Biodiesel surrogates. <i>Fuel</i> , 2017 , 193, 241-253	7.1	47

183	New catalysts for deep hydrotreatment of diesel fuel. <i>Journal of Molecular Catalysis A</i> , 2002 , 184, 323-333	47
182	Influence of Ce/Zr molar ratio on catalytic performance of hydrotalcite-derived catalysts at low temperature CO ₂ methane reforming. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23556-23567 ^{6.7}	46
181	Tetralin hydrogenation catalyzed by Mo ₂ C/Al ₂ O ₃ and WC/Al ₂ O ₃ in the presence of H ₂ S. <i>Catalysis Today</i> , 2001 , 65, 195-200	5.3 45
180	On the Characterisation of Silver Species for SCR of NO _x with Ethanol. <i>Catalysis Letters</i> , 2009 , 128, 25-30.8	43
179	Silver supported mesoporous SBA-15 as potential catalysts for SCR NO _x by ethanol. <i>Applied Catalysis B: Environmental</i> , 2009 , 91, 640-648	21.8 41
178	Mo-promoted Ni/Al ₂ O ₃ catalyst for dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23500-23507	6.7 40
177	Catalytic performances of platinum doped molybdenum carbide for simultaneous hydrodenitrogenation and hydrodesulfurization. <i>Catalysis Today</i> , 2007 , 119, 31-34	5.3 40
176	TiO ₂ /clay as a heterogeneous catalyst in photocatalytic/photochemical oxidation of anionic reactive blue 19. <i>Arabian Journal of Chemistry</i> , 2019 , 12, 1454-1462	5.9 40
175	Plasma-catalytic hybrid reactor: Application to methane removal. <i>Catalysis Today</i> , 2015 , 257, 86-92	5.3 39
174	The influence of lanthanum incorporation method on the performance of nickel-containing hydrotalcite-derived catalysts in CO ₂ methanation reaction. <i>Catalysis Today</i> , 2018 , 307, 205-211	5.3 39
173	Catalytic combustion of methane over mesoporous silica supported palladium. <i>Catalysis Today</i> , 2011 , 176, 36-40	5.3 39
172	Deep hydrodesulphurization and hydrogenation of diesel fuels on alumina-supported and bulk molybdenum carbide catalysts. <i>Fuel</i> , 2004 , 83, 1717-1726	7.1 38
171	Natural clay based nickel catalysts for dry reforming of methane: On the effect of support promotion (La, Al, Mn). <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 246-255	6.7 36
170	Dry reforming of methane over Ni/Ce _{0.62} Zr _{0.38} O ₂ catalysts: Effect of Ni loading on the catalytic activity and on H ₂ /CO production. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1242-1249	2.7 35
169	Sooting tendencies of primary reference fuels in atmospheric laminar diffusion flames burning into vitiated air. <i>Combustion and Flame</i> , 2014 , 161, 1575-1586	5.3 35
168	Transient Studies of Oxygen Removal Pathways and Catalytic Redox Cycles during NO Decomposition on Cu γ -SM5. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 9633-9641	3.4 35
167	Ni/zeolite X derived from fly ash as catalysts for CO ₂ methanation. <i>Fuel</i> , 2020 , 267, 117139	7.1 35
166	Sooting propensities of some gasoline surrogate fuels: Combined effects of fuel blending and air vitiation. <i>Combustion and Flame</i> , 2015 , 162, 1840-1847	5.3 34

165	CH4-SCR of NO over Co and Pd ferrierite catalysts: Effect of preparation on catalytic performance. <i>Catalysis Today</i> , 2007 , 119, 156-165	5.3	34
164	Synthesis Gas Production via Dry Reforming of Methane over Manganese Promoted Nickel/Cerium-Zirconium Oxide Catalyst. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 16643-16653	3.9	34
163	Dry reforming of methane over Zr- and Y-modified Ni/Mg/Al double-layered hydroxides. <i>Catalysis Communications</i> , 2018 , 117, 26-32	3.2	33
162	A TEM and UV-visible study of silver reduction by ethanol in Ag/Alumina catalysts. <i>Applied Catalysis A: General</i> , 2011 , 406, 94-101	5.1	33
161	Evolution of unburnt hydrocarbons under "cold-start" conditions from adsorption/desorption to conversion: On the screening of zeolitic materials. <i>Applied Catalysis B: Environmental</i> , 2014 , 158-159, 48-59	21.8	32
160	Catalytic activity of hydrotalcite-derived catalysts in the dry reforming of methane: on the effect of Ce promotion and feed gas composition. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2017 , 121, 185-208	1.6	32
159	Plasma-assisted catalytic oxidation of methane: On the influence of plasma energy deposition and feed composition. <i>Applied Catalysis B: Environmental</i> , 2008 , 82, 50-57	21.8	32
158	Impacts of ester carbon chain length and concentration on sooting propensities and soot oxidative reactivity: Application to Diesel and Biodiesel surrogates. <i>Fuel</i> , 2018 , 222, 586-598	7.1	31
157	Synthetic gas bench study of a 4-way catalytic converter: Catalytic oxidation, NOx storage/reduction and impact of soot loading and regeneration. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 339-346	21.8	31
156	Particular characteristics of silver species on Ag-exchanged LTL zeolite in K and H form. <i>Microporous and Mesoporous Materials</i> , 2013 , 169, 137-147	5.3	30
155	Ni-Fe layered double hydroxide derived catalysts for non-plasma and DBD plasma-assisted CO2 methanation. <i>International Journal of Hydrogen Energy</i> , 2020 , 45, 10423-10432	6.7	30
154	Ni/Al hydrotalcite-like material as the catalyst precursors for the dry reforming of methane at low temperature. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1205-1210	2.7	29
153	Efficient removal of cadmium and 2-chlorophenol in aqueous systems by natural clay: Adsorption and photo-Fenton degradation processes. <i>Comptes Rendus Chimie</i> , 2018 , 21, 253-262	2.7	29
152	Deep HDS on doped molybdenum carbides: From probe molecules to real feedstocks. <i>Catalysis Today</i> , 2005 , 107-108, 520-530	5.3	29
151	Detailed Kinetic Modeling Study of NOx Oxidation and Storage and Their Interactions over Pt/Ba/Al2O3 Monolith Catalysts. <i>Journal of Physical Chemistry C</i> , 2010 , 114, 7102-7111	3.8	28
150	Reforming of Model Gasification Tar Compounds. <i>Catalysis Letters</i> , 2009 , 128, 40-48	2.8	28
149	Effect of nickel incorporation into hydrotalcite-based catalyst systems for dry reforming of methane. <i>Research on Chemical Intermediates</i> , 2015 , 41, 9485-9495	2.8	27
148	MnOx-CeO2 mixed oxides as the catalyst for NO-assisted soot oxidation: The key role of NO adsorption/desorption on catalytic activity. <i>Applied Surface Science</i> , 2018 , 462, 678-684	6.7	27

147	On the enhancing effect of Ce in Pd-MOR catalysts for NO _x CH ₄ -SCR: A structure-reactivity study. <i>Applied Catalysis B: Environmental</i> , 2016 , 195, 121-131	21.8	27
146	Photo-Fenton oxidation of phenol over a Cu-doped Fe-pillared clay. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1161-1169	2.7	26
145	Detailed Kinetic Analysis of Soot Oxidation by NO ₂ , NO, and NO + O ₂ . <i>Journal of Physical Chemistry C</i> , 2012 , 116, 4642-4654	3.8	26
144	Soot volume fraction fields in unsteady axis-symmetric flames by continuous laser extinction technique. <i>Optics Express</i> , 2012 , 20, 28742-51	3.3	26
143	Numerical study of soot formation in laminar coflow diffusion flames of methane doped with primary reference fuels. <i>Combustion and Flame</i> , 2015 , 162, 1153-1163	5.3	25
142	One-Step Synthesis of Highly Active and Stable Ni ₂ ZrO _x for Dry Reforming of Methane. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 11441-11452	3.9	25
141	Catalysed diesel particulate filter: Study of the reactivity of soot arising from biodiesel combustion. <i>Catalysis Today</i> , 2011 , 176, 219-224	5.3	25
140	Sonocatalytic oxidation of EDTA in aqueous solutions over noble metal-free Co ₃ O ₄ /TiO ₂ catalyst. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 570-577	21.8	25
139	Ce- and Y-Modified Double-Layered Hydroxides as Catalysts for Dry Reforming of Methane: On the Effect of Yttrium Promotion. <i>Catalysts</i> , 2019 , 9, 56	4	24
138	Structure, surface and reactivity of activated carbon: From model soot to Bio Diesel soot. <i>Fuel</i> , 2019 , 257, 116038	7.1	23
137	Investigation of the nature of silver species on different Ag-containing NO _x reduction catalysts: On the effect of the support. <i>Applied Catalysis B: Environmental</i> , 2014 , 150-151, 204-217	21.8	23
136	Kinetic modelling of the oxidation of a wide range of carbon materials. <i>Combustion and Flame</i> , 2012 , 159, 64-76	5.3	23
135	Modelling the kinetics of NO oxidation and NO _x storage over platinum, ceria and ceria zirconia. <i>Applied Catalysis B: Environmental</i> , 2012 , 111-112, 415-423	21.8	22
134	Structure-reactivity study of model and Biodiesel soot in model DPF regeneration conditions. <i>Fuel</i> , 2019 , 239, 373-386	7.1	22
133	Ceria and zirconia modified natural clay based nickel catalysts for dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 23508-23516	6.7	21
132	Natural clay-based Ni-catalysts for dry reforming of methane at moderate temperatures. <i>Catalysis Today</i> , 2018 , 306, 51-57	5.3	21
131	Kinetic Modeling Study of the Oxidation of Carbon Monoxide-Hydrogen Mixtures over Pt/Al ₂ O ₃ and Rh/Al ₂ O ₃ Catalysts. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 20225-20236	3.8	21
130	Novel phosphorus-doped alumina-supported molybdenum and tungsten carbides: synthesis, characterization and hydrogenation properties. <i>Catalysis Letters</i> , 2001 , 72, 91-97	2.8	21

129	Experimental assessment of the sudden-reversal of the oxygen dilution effect on soot production in coflow ethylene flames. <i>Combustion and Flame</i> , 2017 , 183, 242-252	5.3	20
128	Alumina supported cobalt-palladium catalysts for the reduction of NO by methane in stationary sources. <i>Catalysis Today</i> , 2007 , 119, 166-174	5.3	20
127	Impacts on human mortality due to reductions in PM concentrations through different traffic scenarios in Paris, France. <i>Science of the Total Environment</i> , 2020 , 698, 134257	10.2	20
126	NO _x reduction over CeO ₂ /ZrO ₂ supported iridium catalyst in the presence of propanol. <i>Topics in Catalysis</i> , 2004 , 30/31, 97-101	2.3	19
125	Plasma-catalytic hybrid process for CO ₂ methanation: optimization of operation parameters. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 629-643	1.6	19
124	Plasma catalytic oxidation of methane on alumina-supported noble metal catalysts. <i>Applied Catalysis B: Environmental</i> , 2008 , 84, 214-222	21.8	18
123	Effect of ceria promotion on the catalytic performance of Ni/SBA-16 catalysts for CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2020 , 10, 6330-6341	5.5	18
122	Influence of synthesis parameters of SBA-15 supported palladium catalysts for methane combustion and simultaneous NO _x reduction. <i>Microporous and Mesoporous Materials</i> , 2014 , 183, 1-8	5.3	17
121	Stochastic Simulation and Single Events Kinetic Modeling: Application to Olefin Oligomerization. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 4308-4316	3.9	17
120	Identification of the active acid sites of fluorinated alumina catalysts dedicated to n-butene/isobutane alkylation. <i>Applied Catalysis A: General</i> , 2003 , 251, 369-383	5.1	17
119	Excess-methane dry and oxidative reforming on Ni-containing hydrotalcite-derived catalysts for biogas upgrading into synthesis gas. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 11981-11989	6.7	16
118	Structured Pd/Al ₂ O ₃ Prepared by Washcoated Deposition on a Ceramic Honeycomb for Compressed Natural Gas Applications. <i>Journal of Nanoparticles</i> , 2015 , 2015, 1-9		16
117	On the effect of yttrium promotion on Ni-layered double hydroxides-derived catalysts for hydrogenation of CO ₂ to methane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 12169-12179	6.7	16
116	Palladium catalysts supported on sulfated ceria-zirconia for the selective catalytic reduction of NO _x by methane: Catalytic performances and nature of active Pd species. <i>Catalysis Today</i> , 2011 , 176, 242-249	5.3	15
115	Controlled preparation of CoPdSiBEA zeolite catalysts for selective catalytic reduction of NO with methane and their characterisation by XRD, DR UV-Vis, TPR, XPS. <i>Catalysis Today</i> , 2011 , 176, 72-76	5.3	15
114	Extension of a kinetic model for NO oxidation and NO _x storage to fixed-bed Pt/Ba/Al ₂ O ₃ catalysts. <i>Catalysis Communications</i> , 2010 , 12, 54-57	3.2	15
113	Ceria-zirconia-supported rhodium catalyst for NO _x reduction from coal combustion flue gases. <i>Applied Catalysis B: Environmental</i> , 2009 , 90, 535-544	21.8	15
112	The effect of the Rh/Al, Pt/Al and PtRh/Al surface alloys on NO conversion to N ₂ on alumina supported Rh, Pt and PtRh catalysts. <i>Catalysis Today</i> , 2007 , 119, 187-193	5.3	15

111	Highly Carbon-Resistant Y Doped NiO/ZrO ₂ Catalysts for Dry Reforming of Methane. <i>Catalysts</i> , 2019 , 9, 1055	4	15
110	Carbon-resistant NiO-Y ₂ O ₃ -nanostructured catalysts derived from double-layered hydroxides for dry reforming of methane. <i>Catalysis Today</i> , 2021 , 366, 103-113	5.3	15
109	Mesostructured or Alumina-mesostructured Silica SBA-16 as Potential Support for NO _x Reduction and Ethanol Oxidation. <i>Catalysis Letters</i> , 2010 , 139, 50-55	2.8	14
108	Selective reduction of NO _x by hydrogen and methane in natural gas stationary sources over alumina-supported Pd, Co and Co/Pd catalysts: Part A. On the effect of palladium precursors and catalyst pre-treatment. <i>Catalysis Today</i> , 2008 , 137, 179-184	5.3	14
107	Ni/CeO ₂ Nanoparticles Promoted by Yttrium Doping as Catalysts for CO ₂ Methanation. <i>ACS Applied Nano Materials</i> , 2020 , 3, 12355-12368	5.6	14
106	Electrocatalytic behaviour of CeZrO _x -supported Ni catalysts in plasma assisted CO ₂ methanation. <i>Catalysis Science and Technology</i> , 2020 , 10, 4532-4543	5.5	14
105	Multi-scale flow simulation of automotive catalytic converters. <i>Chemical Engineering Science</i> , 2014 , 116, 161-171	4.4	13
104	Modified layered clays as catalysts for ethanol oxidation. <i>Catalysis Today</i> , 2011 , 176, 154-158	5.3	13
103	Study of the use of fluidized bed plasma reactors for the treatment of alumina supported palladium catalyst: Application for SCR NO _x by CH ₄ in stationary sources. <i>Catalysis Communications</i> , 2010 , 12, 20-24	3.2	13
102	Supported Molybdenum Carbides Lie Between Metallic and Sulfided Catalysts for Deep HDS. <i>Catalysis Letters</i> , 2003 , 86, 133-138	2.8	13
101	Effect of Biodiesel impurities (K, Na, P) on non-catalytic and catalytic activities of Diesel soot in model DPF regeneration conditions. <i>Fuel Processing Technology</i> , 2020 , 199, 106293	7.2	13
100	Methane, Propene and Toluene Oxidation by Plasma-Pd/Al ₂ O ₃ Hybrid Reactor: Investigation of a Synergetic Effect. <i>Topics in Catalysis</i> , 2017 , 60, 326-332	2.3	12
99	SCR NO _x mechanistic study with a mixture of hydrocarbons representative of the exhaust gas from coal combustion over Rh/CeO ₂ .6ZrO ₂ .38O ₂ catalyst. <i>Fuel</i> , 2015 , 150, 21-28	7.1	12
98	Impact of the Catalyst/Soot Ratio on Diesel Soot Oxidation Pathways. <i>Energy & Fuels</i> , 2012 , 26, 6091-6097	4.6	12
97	Catalytic performance of platinum doped tungsten carbide in simultaneous hydrodenitrogenation and hydrodesulphurization. <i>Applied Catalysis B: Environmental</i> , 2010 , 93, 241-249	21.8	12
96	Methane oxidation by NO and O ₂ from reverse spillover on alumina supported palladium catalysts. <i>Catalysis Communications</i> , 2008 , 9, 1704-1708	3.2	12
95	Methane activation by NO ₂ on Co loaded SBA-15 catalysts: The effect of mesopores (length, diameter) on the catalytic activity. <i>Catalysis Today</i> , 2008 , 137, 191-196	5.3	12
94	Catalytic activity of layered aluminosilicates for VOC oxidation in the presence of NO _x . <i>Comptes Rendus Chimie</i> , 2015 , 18, 1106-1113	2.7	11

93	Influence of gas hourly space velocity on the activity of monolithic catalysts for the simultaneous removal of soot and NOx. <i>Comptes Rendus Chimie</i> , 2015 , 18, 1007-1012	2.7	11
92	Biofuel Impact on Diesel Engine After-Treatment: Deactivation Mechanisms and Soot Reactivity. <i>Emission Control Science and Technology</i> , 2018 , 4, 15-32	2	11
91	NOx SCR with decane using Ag/MFI catalysts: on the effect of silver content and co-cation presence. <i>Catalysis Science and Technology</i> , 2016 , 6, 3038-3048	5.5	11
90	Study of the surface evolution of nitrogen species on CuO/CeZrO ₂ catalysts. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2013 , 109, 43-56	1.6	11
89	Effect of Biofuels on Catalyzed Diesel Particulate Filter Regeneration. <i>Topics in Catalysis</i> , 2013 , 56, 462-466	4.6	11
88	Titanium Dioxide Supported on Different Porous Materials as Photocatalyst for the Degradation of Methyl Green in Wastewaters. <i>Advances in Materials Science and Engineering</i> , 2015 , 2015, 1-10	1.5	11
87	Effect of the Synthesis Method on Alumina Supported Silver Based Catalyst for NO x Selective Reduction by Ethanol. <i>Topics in Catalysis</i> , 2009 , 52, 1781-1785	2.3	11
86	Coupling experiment and simulation analysis to investigate physical parameters of CO ₂ methanation in a plasma-catalytic hybrid process. <i>Plasma Processes and Polymers</i> , 2020 , 17, 1900261	3.4	10
85	Aging of Commercial Diesel Oxidation Catalysts: A preliminary Structure/Reactivity Study. <i>Topics in Catalysis</i> , 2016 , 59, 1039-1043	2.3	10
84	Organic pollutants oxidation by needle/plate plasma discharge: On the influence of the gas nature. <i>Chemical Engineering and Processing: Process Intensification</i> , 2014 , 82, 185-192	3.7	10
83	Catkin liked nano-Co ₃ O ₄ catalyst built-in organic microreactor by PEMOCVD method for trace CO oxidation at room temperature. <i>Microfluidics and Nanofluidics</i> , 2014 , 16, 141-148	2.8	10
82	Modelling of a Lean NOx-Trap system with NO/NO ₂ differentiation and sulfur poisoning. <i>SAE International Journal of Fuels and Lubricants</i> , 2010 , 3, 414-424	1.8	10
81	Methanol interaction with NO ₂ : An attempt to identify intermediate compounds in CH ₄ -SCR of NO with Co/Pd-HFER catalyst. <i>Catalysis Today</i> , 2008 , 137, 157-161	5.3	10
80	Understanding of tri-reforming of methane over Ni/Mg/Al hydrotalcite-derived catalyst for CO ₂ utilization from flue gases from natural gas-fired power plants. <i>Journal of CO₂ Utilization</i> , 2020 , 42, 101317	7.6	10
79	CO ₂ reforming in CH ₄ over Ni/Al ₂ O ₃ nano catalyst: Effect of cold plasma surface discharge. <i>Applied Surface Science</i> , 2020 , 501, 144175	6.7	10
78	Synthesis strategies of Zr- and Y-promoted mixed oxides derived from double-layered hydroxides for syngas production via dry reforming of methane. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 12128-12144	6.7	10
77	Mg-promotion of Ni natural clay-supported catalysts for dry reforming of methane.. <i>RSC Advances</i> , 2018 , 8, 19627-19634	3.7	10
76	Potential synergic effect between MOR and BEA zeolites in NOx SCR with methane: A dual bed design approach. <i>Applied Catalysis A: General</i> , 2015 , 506, 246-253	5.1	9

75	Hysteresis effect study on diesel oxidation catalyst for a better efficiency of SCR systems. <i>Catalysis Today</i> , 2012 , 191, 52-58	5.3	9
74	deNO _x over Ag/H-ZSM-5: Study of NO ₂ interaction with ethanol. <i>Catalysis Today</i> , 2011 , 176, 81-87	5.3	9
73	Vanadium promoted Ni(Mg,Al)O hydrotalcite-derived catalysts for CO ₂ methanation. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 17776-17783	6.7	9
72	Operando FT-IR study on basicity improvement of Ni(Mg, Al)O hydrotalcite-derived catalysts promoted by glow plasma discharge. <i>Plasma Science and Technology</i> , 2019 , 21, 045503	1.5	9
71	Effect of low loading of yttrium on Ni-based layered double hydroxides in CO ₂ reforming of CH ₄ . <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2019 , 126, 611-628	1.6	9
70	Effect of Acid-Basic Sites Ratio on the Catalytic Activity to Obtain 5-HMF from Glucose Using Al ₂ O ₃ -TiO ₂ -W Catalysts. <i>ChemistrySelect</i> , 2018 , 3, 12854-12864	1.8	9
69	Microwave Plasma Treatment for Catalyst Preparation: Application to Alumina Supported Silver Catalysts for SCR NO _x by Ethanol. <i>Modern Research in Catalysis</i> , 2013 , 02, 68-82	0.6	8
68	Fluidized bed plasma for pre-treatment of Co-ferrierite catalysts: An approach to NO _x abatement. <i>Catalysis Today</i> , 2011 , 176, 234-238	5.3	8
67	Selective reduction of NO _x by hydrogen and methane in natural gas stationary sources over alumina supported Pd, Co and Co/Pd catalysts. <i>Catalysis Today</i> , 2008 , 137, 185-190	5.3	8
66	NiMo ₂ C supported on alumina as a substitute for NiMo reduced catalysts supported on alumina material for dry reforming of methane. <i>Comptes Rendus Chimie</i> , 2018 , 21, 247-252	2.7	8
65	Heterogeneous TiO ₂ /Fe-plate catalyst for the discoloration and mineralization of aqueous solutions of cationic and anionic dyes. <i>Desalination and Water Treatment</i> , 2016 , 57, 13505-13517		7
64	On the Efficiency of NH ₃ /SCR Catalysts for Heavy Duty Vehicles Running on Compressed Natural Gas in Synthetic Gas Bench Scale. <i>Topics in Catalysis</i> , 2013 , 56, 45-49	2.3	7
63	On the Effect of Preparation Methods of PdCe-MOR Catalysts as NO _x CH ₄ -SCR System for Natural Gas Vehicles Application. <i>Catalysts</i> , 2015 , 5, 1815-1830	4	7
62	Investigation of oxide catalysts activity in the NO _x neutralisation with organic reductants. <i>Applied Surface Science</i> , 2010 , 256, 5572-5575	6.7	7
61	Improvement of the activity of CO ₂ methanation in a hybrid plasma-catalytic process in varying catalyst particle size or under pressure. <i>Journal of CO₂ Utilization</i> , 2021 , 46, 101471	7.6	7
60	Probing the local radiative quenching during the transition from a non-smoking to a smoking laminar coflow ethylene/air non-premixed flame. <i>Combustion and Flame</i> , 2019 , 203, 120-129	5.3	7
59	Chapter 5 A three-function model reaction for designing DeNO _x catalysts. <i>Studies in Surface Science and Catalysis</i> , 2007 , 145-173	1.8	6
58	Dry reforming of methane over NiZrO _x catalysts doped by manganese: On the effect of the stability of the structure during time on stream. <i>Applied Catalysis A: General</i> , 2021 , 617, 118120	5.1	6

57	Tailoring physicochemical and electrical properties of Ni/CeZrOx doped catalysts for high efficiency of plasma catalytic CO2 methanation. <i>Applied Catalysis B: Environmental</i> , 2021 , 294, 120233	21.8	6
56	Experimental investigation on the influence of the presence of alkali compounds on the performance of a commercial PtPd/Al2O3 diesel oxidation catalyst. <i>Clean Technologies and Environmental Policy</i> , 2018 , 20, 715-725	4.3	5
55	Natural Hematite and Siderite as Heterogeneous Catalysts for an Effective Degradation of 4-Chlorophenol via Photo-Fenton Process. <i>ChemEngineering</i> , 2018 , 2, 29	2.6	5
54	On the influence of the alumina precursor in Fe-K/Al2O3 structured catalysts for the simultaneous removal of soot and NOx: From surface properties to reaction mechanism. <i>Comptes Rendus Chimie</i> , 2014 , 17, 681-686	2.7	5
53	Mechanism of the Reduction by Ammonia of Nitrates Stored onto a PtBa/Al2O3 LNT Catalyst. <i>Topics in Catalysis</i> , 2013 , 56, 1906-1915	2.3	5
52	Elaboration of an Accelerated Oven CNG Heavy Duty Vehicles Catalyst Ageing for Road Ageing Simulation. <i>Topics in Catalysis</i> , 2013 , 56, 267-272	2.3	5
51	Histopathologic and Ultrastructural Features of Gold Thread Implanted in the Skin for Facial Rejuvenation. <i>American Journal of Dermatopathology</i> , 2015 , 37, 773-7	0.9	5
50	NOx Abatement by Plasma Catalysis 2012 , 89-129		5
49	Stable NiO@CeO2 nanoparticles with improved carbon resistance for methane dry reforming. <i>Journal of Rare Earths</i> , 2020 ,	3.7	5
48	Nickel Supported Modified Ceria Zirconia Lanthanum/ Praseodymium/Yttrium Oxides Catalysts for Syngas Production through Dry Methane Reforming. <i>Materials Science Forum</i> , 2018 , 941, 2214-2219	0.4	5
47	New Approach for Understanding the Oxidation Stability of Neopolyol Ester Lubricants Using a Small-Scale Oxidation Test Method. <i>ACS Omega</i> , 2018 , 3, 10449-10459	3.9	5
46	Effect of Na and K impurities on the performance of Ni/CeZrOx catalysts in DBD plasma-catalytic CO2 methanation. <i>Fuel</i> , 2021 , 306, 121639	7.1	5
45	Novel Preparation of Cu and Fe Zirconia Supported Catalysts for Selective Catalytic Reduction of NO with NH3. <i>Catalysts</i> , 2021 , 11, 55	4	5
44	Shock-induced cavitation as a way of accelerating phenol oxidation in aqueous media. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 112, 47-55	3.7	4
43	Optimizing Washcoating Conditions for the Preparation of Zeolite-Based Cordierite Monoliths for NOx CH4-SCR: A Required Step for Real Application. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 11799-11810	3.9	4
42	Sulfur Deactivation of NOxStorage Catalysts: A Multiscale Modeling Approach. <i>Oil and Gas Science and Technology</i> , 2013 , 68, 995-1005	1.9	4
41	Enhancement of 3-Way CNG Catalyst Performance at High Temperature Due to the Presence of Water in the Feed: On the Role of Steam Reforming of Methane and on the Influence of Ageing. <i>Topics in Catalysis</i> , 2009 , 52, 1972-1976	2.3	4
40	Hydrogenolysis of carbon-halogen and carbon-carbon bonds over Pd/Nb2O5/Al2O3 catalysts. <i>Catalysis Communications</i> , 2009 , 10, 1757-1761	3.2	4

39	Alumina-Supported Ni-Mo Carbides as Promising Catalysts for CO ₂ Methanation. <i>Modern Research in Catalysis</i> , 2017 , 06, 135-145	0.6	4
38	The effect of adsorbed oxygen species on carbon-resistance of Ni-Zr catalyst modified by Al and Mn for dry reforming of methane. <i>Catalysis Today</i> , 2021 ,	5.3	4
37	Novel Nickel- and Magnesium-Modified Cenospheres as Catalysts for Dry Reforming of Methane at Moderate Temperatures. <i>Catalysts</i> , 2019 , 9, 1066	4	4
36	Application of PdCe-HMOR Catalyst as NO _x CH ₄ -SCR System for Heavy-Duty Vehicles Moved by Natural Gas. <i>Topics in Catalysis</i> , 2016 , 59, 982-986	2.3	3
35	A molecular approach for unraveling surface phase transitions: sulfation of BaO as a model NO(x) trap. <i>Chemistry - A European Journal</i> , 2012 , 18, 10511-4	4.8	3
34	Multiscale Modeling of Barium Sulfate Formation from BaO. <i>Industrial & Engineering Chemistry Research</i> , 2013 , 52, 9086-9098	3.9	3
33	On the Effect of Poor Metals (Al, Ga, In) on the NO _x Conversion in Ethanol Selective Catalytic Reduction. <i>Topics in Catalysis</i> , 2009 , 52, 1786-1790	2.3	3
32	Metallic active species for deNO _x SCR by methane with Co and Pd/Co HFER catalysts. <i>Studies in Surface Science and Catalysis</i> , 2008 , 174, 1033-1038	1.8	3
31	Plasma-Catalytic Removal of NO _x in Mobile and Stationary Sources. <i>Springer Series on Atomic, Optical, and Plasma Physics</i> , 2019 , 115-144	0.4	3
30	Investigation of Cu promotion effect on hydrotalcite-based nickel catalyst for CO ₂ methanation. <i>Catalysis Today</i> , 2021 , 384-386, 133-133	5.3	3
29	Tailoring the yttrium content in Ni-Ce-Y/SBA-15 mesoporous silicas for CO ₂ methanation. <i>Catalysis Today</i> , 2021 , 382, 104-104	5.3	3
28	Nickel Supported Modified Zirconia Catalysts for CO ₂ Methanation in DBD Plasma Catalytic Hybrid Process. <i>Materials Science Forum</i> , 2016 , 894-899	0.4	3
27	Ni-based catalysts for plasma-assisted CO ₂ methanation. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2021 , 32, 100540	7.9	3
26	Ceria promotion over Ni-containing hydrotalcite-derived catalysts for CO ₂ methane reforming. <i>E3S Web of Conferences</i> , 2017 , 14, 02039	0.5	2
25	Multi-Scale Modeling Study of Barium Nitrate Reduction in NO _x Traps. <i>Topics in Catalysis</i> , 2013 , 56, 140-144	1.4	2
24	Comparative Study of Natural Gas Vehicles Commercial Catalysts in Monolithic Form 2007 ,		2
23	The reduction of NO by hydrocarbons over Pd-Co/ZSM-5: The components of the catalyst and their role in the process. <i>Studies in Surface Science and Catalysis</i> , 2004 , 154, 2509-2513	1.8	2
22	Effect of cobalt promotion on hydrotalcite-derived nickel catalyst for CO ₂ methanation. <i>Applied Materials Today</i> , 2021 , 25, 101211	6.6	2

21	Physical and chemical characterization of shock-induced cavitation. <i>Ultrasonics Sonochemistry</i> , 2020 , 69, 105270	8.9	2
20	Magnetic control of flame stability: Application to oxygen-enriched and carbon dioxide-diluted sooting flames. <i>Proceedings of the Combustion Institute</i> , 2019 , 37, 5637-5644	5.9	2
19	Hydrodeoxygenation of benzyl alcohol on transition-metal-containing mixed oxides catalysts derived from layered double hydroxide precursors. <i>Catalysis Today</i> , 2021 , 366, 235-244	5.3	2
18	Influence of Catalyst Composition on NOX Trap Performances. <i>Topics in Catalysis</i> , 2013 , 56, 261-266	2.3	1
17	On the Comprehension of Mechanical, Thermal and Chemical Evolution of Exhaust Gases after Treatment Catalysts. <i>Materials Science Forum</i> , 2014 , 783-786, 1979-1985	0.4	1
16	Impact of Thermal and Engine Ageing on a Fully Formulated Lean NOx Trap 2012 ,		1
15	Fluidized Bed Plasmas Reactor for Catalyst Synthesis and Pretreatment. Application for Pollution Abatement in Stationary and Mobile Sources. <i>Advanced Materials Research</i> , 2010 , 89-91, 118-123	0.5	1
14	Selective reduction of NO X in diesel exhaust with hydrocarbons over alumina in NEDC conditions. <i>Topics in Catalysis</i> , 2007 , 42-43, 27-31	2.3	1
13	Boosting CO2 reforming of methane via the metal-support interaction in mesostructured SBA-16-derived Ni nanoparticles. <i>Applied Materials Today</i> , 2022 , 26, 101354	6.6	1
12	Co-Precipitated Ni-Mg-Al Hydrotalcite-Derived Catalyst Promoted with Vanadium for CO Methanation. <i>Molecules</i> , 2021 , 26,	4.8	1
11	The Effect of Ni Precursor Salts on Diatomite Supported Ni-Mg Catalysts in Methanation of CO2. <i>Materials Science Forum</i> , 1016, 1417-1422	0.4	1
10	Solution combustion synthesis as an alternative synthesis route for novel Ni-Mg-Al mixed-oxide catalyst for CO2 methanation. <i>Journal of CO2 Utilization</i> , 2022 , 60, 101983	7.6	1
9	On the Effect of Cobalt Promotion over Ni/CeO2 Catalyst for CO2 Thermal and Plasma Assisted Methanation. <i>Catalysts</i> , 2022 , 12, 36	4	1
8	Ultrasmall bimetallic Cu/ZnOx nanoparticles encapsulated in UiO-66 by deposition-precipitation method for CO2 hydrogenation to methanol. <i>Fuel</i> , 2022 , 324, 124694	7.1	1
7	Nanooxides Derived from Hydrotalcites as Catalysts for Dry Methane Reforming Reaction - Effect of [Ni(EDTA)]2- Adsorption Time. <i>Materials Science Forum</i> , 2016 , 879, 396-401	0.4	0
6	Unraveling catalytic properties by yttrium promotion on mesoporous SBA-16 supported nickel catalysts towards CO2 methanation. <i>Fuel</i> , 2021 , 317, 122829	7.1	0
5	Modified fly ash, a waste material from the energy industry, as a catalyst for the CO2 reduction to methane. <i>Energy</i> , 2021 , 122718	7.9	0
4	Syngas Production via CO Reforming of Methane over Aluminum-Promoted NiO-10AlO-ZrO Catalyst. <i>ACS Omega</i> , 2021 , 6, 22383-22394	3.9	0

- 3 Influence of the Alumina Precursor on the Activity of Structured Fe γ /Al₂O₃ Catalysts Towards the Simultaneous Removal of Soot and NO_x. *Topics in Catalysis*, **2017**, 60, 355-360 2.3
- 2 Syngas Production by Dry Methane Reforming over Mg Doped NiO-ZrO₂ Catalysts. *Materials Science Forum*, 1016, 1585-1590 0.4
- 1 Transition metal-based catalysts for CO₂ methanation and hydrogenation **2022**, 59-93