

# Jose Luis G Fierro

## List of Publications by Citations

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991  
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96  
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1,024  
ext. papers

46,939  
ext. citations

6.8  
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7.52  
L-index

#	Paper	IF	Citations
991	Chemical structures and performance of perovskite oxides. <i>Chemical Reviews</i> , <b>2001</b> , 101, 1981-2017	68.1	1913
990	Hydrogen production reactions from carbon feedstocks: fossil fuels and biomass. <i>Chemical Reviews</i> , <b>2007</b> , 107, 3952-91	68.1	922
989	Biodiesel from sunflower oil by using activated calcium oxide. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 73, 317-326	21.8	594
988	New catalytic routes for syngas and hydrogen production. <i>Applied Catalysis A: General</i> , <b>1996</b> , 144, 7-57	5.1	546
987	Surface properties and catalytic performance in methane combustion of Sr-substituted lanthanum manganites. <i>Applied Catalysis B: Environmental</i> , <b>2000</b> , 24, 193-205	21.8	468
986	Water splitting on semiconductor catalysts under visible-light irradiation. <i>ChemSusChem</i> , <b>2009</b> , 2, 471-858.3	58.3	444
985	Ethanol steam reforming over Ni/MxOyNi/MxOy/Al <sub>2</sub> O <sub>3</sub> /Al <sub>2</sub> O <sub>3</sub> (M=Ce, La, Zr and Mg) catalysts: Influence of support on the hydrogen production. <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 1462-1471	6.7	359
984	Oxidative processes of desulfurization of liquid fuels. <i>Journal of Chemical Technology and Biotechnology</i> , <b>2010</b> , 85, 879-890	3.5	327
983	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. <i>Energy and Environmental Science</i> , <b>2009</b> , 2, 35-54	35.4	321
982	Production of hydrogen from methanol over Cu/ZnO catalysts promoted by ZrO <sub>2</sub> and Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Catalysis</i> , <b>2003</b> , 219, 389-403	7.3	315
981	Structure and Reactivity of Perovskite-Type Oxides. <i>Advances in Catalysis</i> , <b>1989</b> , 237-328	2.4	310
980	Sensitivity of single wall carbon nanotubes to oxidative processing: structural modification, intercalation and functionalisation. <i>Carbon</i> , <b>2003</b> , 41, 2247-2256	10.4	305
979	Preparation and in-Situ Spectroscopic Characterization of Molecularly Dispersed Titanium Oxide on Silica. <i>Journal of Physical Chemistry B</i> , <b>1998</b> , 102, 5653-5666	3.4	278
978	Few-layer graphenes from ball-milling of graphite with melamine. <i>Chemical Communications</i> , <b>2011</b> , 47, 10936-8	5.8	265
977	Direct methane conversion routes to chemicals and fuels. <i>Catalysis Today</i> , <b>2011</b> , 171, 15-23	5.3	224
976	Genesis of iron carbides and their role in the synthesis of hydrocarbons from synthesis gas. <i>Journal of Catalysis</i> , <b>2006</b> , 243, 199-211	7.3	217
975	Hydrogen Production from Glycerol Over Nickel Catalysts Supported on Al <sub>2</sub> O <sub>3</sub> Modified by Mg, Zr, Ce or La. <i>Topics in Catalysis</i> , <b>2008</b> , 49, 46-58	2.3	206

974	Induced changes in ceria by thermal treatments under vacuum or hydrogen. <i>Journal of Solid State Chemistry</i> , <b>1987</b> , 66, 154-162	3.3	201
973	Delamination of layered covalent organic frameworks. <i>Small</i> , <b>2011</b> , 7, 1207-11	11	199
972	Highly effective conversion of CO <sub>2</sub> to methanol over supported and promoted copper-based catalysts: influence of support and promoter. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 29, 207-215	21.8	191
971	The effect of CeO <sub>2</sub> on the surface and catalytic properties of Pt/CeO <sub>2</sub> /rO <sub>2</sub> catalysts for methane dry reforming. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 89, 149-159	21.8	188
970	Nature of Copper Active Sites in the Carbon Monoxide Oxidation on CuAl <sub>2</sub> O <sub>4</sub> and CuCr <sub>2</sub> O <sub>4</sub> Spinel Type Catalysts. <i>Journal of Catalysis</i> , <b>1998</b> , 177, 82-95	7.3	188
969	Study of the surface and redox properties of ceria/zirconia oxides. <i>Applied Catalysis A: General</i> , <b>2008</b> , 337, 86-96	5.1	188
968	Hydrogenation of Aromatics on Sulfur-Resistant PtPd Bimetallic Catalysts. <i>Journal of Catalysis</i> , <b>2000</b> , 189, 184-194	7.3	185
967	Hydrogenolysis of glycerol to propanediols over a Pt/ASA catalyst: The role of acid and metal sites on product selectivity and the reaction mechanism. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 97, 248-256	21.8	181
966	Structural and surface features of PtNi catalysts for reforming of methane with CO <sub>2</sub> . <i>Applied Catalysis A: General</i> , <b>2007</b> , 323, 188-201	5.1	181
965	Partial oxidation of methanol to produce hydrogen over Cu/Zn-based catalysts. <i>Applied Catalysis A: General</i> , <b>1997</b> , 162, 281-297	5.1	179
964	Selective Production of Hydrogen by Partial Oxidation of Methanol over ZnO-Supported Palladium Catalysts. <i>Journal of Catalysis</i> , <b>1998</b> , 179, 150-162	7.3	176
963	Glycerol steam reforming over Ni catalysts supported on ceria and ceria-promoted alumina. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 11622-11633	6.7	172
962	Structural features of La <sub>1-x</sub> Ce <sub>x</sub> NiO <sub>3</sub> mixed oxides and performance for the dry reforming of methane. <i>Applied Catalysis A: General</i> , <b>2006</b> , 311, 94-104	5.1	169
961	A Review of Deep Hydrodesulfurization Catalysis. <i>Catalysis Reviews - Science and Engineering</i> , <b>1996</b> , 38, 161-188	12.6	169
960	A framework for visible-light water splitting. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1865	35.4	168
959	Preparation of Platinum Supported on Pregraphitized Carbon Blacks. <i>Langmuir</i> , <b>1994</b> , 10, 750-755	4	166
958	Partial oxidation of methanol over supported palladium catalysts. <i>Applied Catalysis A: General</i> , <b>1998</b> , 168, 307-322	5.1	162
957	Synergy effect in the HDO of phenol over Ni/W catalysts supported on active carbon: Effect of tungsten precursors. <i>Applied Catalysis B: Environmental</i> , <b>2010</b> , 101, 1-12	21.8	159

956	Highly efficient deep desulfurization of fuels by chemical oxidation. <i>Green Chemistry</i> , <b>2004</b> , 6, 557	10	159
955	Ethanol steam reforming over Ni/LaAl <sub>2</sub> O <sub>3</sub> catalysts: Influence of lanthanum loading. <i>Catalysis Today</i> , <b>2007</b> , 129, 336-345	5.3	155
954	Synergy of Fe <sub>x</sub> Ce <sub>1-x</sub> O <sub>2</sub> mixed oxides for N <sub>2</sub> O decomposition. <i>Journal of Catalysis</i> , <b>2006</b> , 239, 340-346	7.3	153
953	Oxidative dehydrogenation of ethane to ethylene over alumina-supported vanadium oxide catalysts: Relationship between molecular structures and chemical reactivity. <i>Catalysis Today</i> , <b>2006</b> , 118, 279-287	5.3	148
952	Influence of the Preparation Route of Bimetallic PtAu Nanoparticle Electrocatalysts for the Oxygen Reduction Reaction. <i>Journal of Physical Chemistry C</i> , <b>2007</b> , 111, 2913-2923	3.8	146
951	Catalytic reduction of nitrate on Pt-Cu and Pd-Cu on active carbon using continuous reactor: The effect of copper nanoparticles. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 62, 77-85	21.8	143
950	Oxidative Methanol Reforming Reactions on CuZnAl Catalysts Derived from Hydrotalcite-like Precursors. <i>Journal of Catalysis</i> , <b>2001</b> , 198, 338-347	7.3	141
949	Chemical Structures of Coprecipitated FeCe Mixed Oxides. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 2329-2339	9.6	139
948	Non-stoichiometric surface behaviour of LaMO <sub>3</sub> oxides as evidenced by XPS. <i>Applied Surface Science</i> , <b>1987</b> , 27, 453-457	6.7	137
947	Study of chemical activation process of a lignocellulosic material with KOH by XPS and XRD. <i>Microporous and Mesoporous Materials</i> , <b>2003</b> , 60, 173-181	5.3	136
946	Plasma Fluorination of Chemically Derived Graphene Sheets and Subsequent Modification With Butylamine. <i>Chemistry of Materials</i> , <b>2009</b> , 21, 3433-3438	9.6	135
945	Catalytic performance for CO <sub>2</sub> conversion to methanol of gallium-promoted copper-based catalysts: influence of metallic precursors. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 34, 255-266	21.8	135
944	Ni-based catalysts for reforming of methane with CO <sub>2</sub> . <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 15966-15975	6.7	133
943	Upgrading of bio-liquids on different mesoporous silica-supported CoMo catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 154-167	21.8	132
942	Catalytic effects of ruthenium particle size on the Fischer-Tropsch Synthesis. <i>Journal of Catalysis</i> , <b>2011</b> , 284, 102-108	7.3	131
941	Partial Oxidation of Methane to Synthesis Gas Using LnCoO <sub>3</sub> Perovskites as Catalyst Precursors. <i>Journal of Catalysis</i> , <b>1997</b> , 167, 198-209	7.3	128
940	SrFeO <sub>3-δ</sub> Perovskite Oxides: Chemical Features and Performance for Methane Combustion. <i>Chemistry of Materials</i> , <b>2002</b> , 14, 2325-2333	9.6	128
939	Hydrogenation of carbon oxides over promoted Fe-Mn catalysts prepared by the microemulsion methodology. <i>Applied Catalysis A: General</i> , <b>2006</b> , 311, 66-75	5.1	127

938	Characterization of nickel species on several alumina supported nickel samples. <i>Journal of Molecular Catalysis A</i> , <b>1996</b> , 106, 125-134		126
937	Photocatalytic hydrogen evolution from CdS/ZnO/TiO <sub>2</sub> systems under visible light irradiation: Effect of thermal treatment and presence of Pt and Ru cocatalysts. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 4265-4273	6.7	125
936	Hydrogenation of aromatics over Au-Pd/SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> catalysts; support acidity effect. <i>Applied Catalysis A: General</i> , <b>2004</b> , 264, 43-51	5.1	125
935	MCM-41 supported PdNi catalysts for dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 250-261	21.8	124
934	Nature of the vanadia/ceria interface in V <sub>5+</sub> /CeO <sub>2</sub> catalysts and its relevance for the solid-state reaction toward CeVO <sub>4</sub> and catalytic properties. <i>Journal of Catalysis</i> , <b>2004</b> , 225, 240-248	7.3	124
933	Structure and composition of perovskite surface in relation to adsorption and catalytic properties. <i>Catalysis Today</i> , <b>1990</b> , 8, 153-174	5.3	124
932	The phenol steam reforming reaction over MgO-based supported Rh catalysts. <i>Journal of Catalysis</i> , <b>2004</b> , 228, 417-432	7.3	123
931	Formaldehyde/methanol combustion on alumina-supported manganese-palladium oxide catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 51, 83-91	21.8	120
930	Hydrogenation of aromatics over supported Pt-Pd catalysts. <i>Applied Catalysis A: General</i> , <b>2002</b> , 225, 223-237	3.37	120
929	Effectiveness of metal-organic frameworks for removal of refractory organo-sulfur compound present in liquid fuels. <i>Fuel</i> , <b>2011</b> , 90, 190-197	7.1	118
928	Absorption-enhanced reforming of phenol by steam over supported Fe catalysts. <i>Journal of Catalysis</i> , <b>2006</b> , 241, 132-148	7.3	117
927	Hydrogen production by methane decomposition: Origin of the catalytic activity of carbon materials. <i>Fuel</i> , <b>2010</b> , 89, 1241-1248	7.1	116
926	Gas phase hydrogenation of crotonaldehyde over Pt/Activated carbon catalysts. Influence of the oxygen surface groups on the support. <i>Applied Catalysis A: General</i> , <b>1997</b> , 150, 165-183	5.1	116
925	Alumina-supported manganese- and manganese-palladium oxide catalysts for VOCs combustion. <i>Catalysis Communications</i> , <b>2003</b> , 4, 223-228	3.2	116
924	Influence of La <sub>2</sub> O <sub>3</sub> modified support and Ni and Pt active phases on glycerol steam reforming to produce hydrogen. <i>Catalysis Communications</i> , <b>2009</b> , 10, 1275-1278	3.2	115
923	Dehydrogenation of isopropyl alcohol on a Cu/SiO <sub>2</sub> catalyst: a study of the activity evolution and reactivation of the catalyst. <i>Applied Catalysis A: General</i> , <b>1996</b> , 142, 375-386	5.1	115
922	Influence of the solvent on the structure, morphology and performance for H <sub>2</sub> evolution of CdS photocatalysts prepared by solvothermal method. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 203, 753-767	21.8	112
921	A comparative study of the water gas shift reaction over platinum catalysts supported on CeO <sub>2</sub> , TiO <sub>2</sub> and Ce-modified TiO <sub>2</sub> . <i>Catalysis Today</i> , <b>2010</b> , 149, 372-379	5.3	112

920	Spectroscopic Evidence of Cu <sup>II</sup> /Al Interactions in Cu <sup>II</sup> /Zn <sup>II</sup> /Al Mixed Oxide Catalysts Used in CO Hydrogenation. <i>Journal of Catalysis</i> , <b>1998</b> , 178, 146-152	7.3	112
919	Acid-Functionalized Amorphous Silica by Chemical Grafting/Quantitative Oxidation of Thiol Groups. <i>Langmuir</i> , <b>2003</b> , 19, 7621-7627	4	111
918	Crotonaldehyde hydrogenation over bimetallic Pt <sup>2</sup> /Sn catalysts supported on pregraphitized carbon black. Effect of the preparation method. <i>Applied Catalysis A: General</i> , <b>1996</b> , 148, 63-80	5.1	111
917	Catalytic valorization of CO <sub>2</sub> via methanol synthesis with Ga-promoted Cu <sup>II</sup> /ZnO <sup>II</sup> /rO <sub>2</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2013</b> , 142-143, 241-248	21.8	110
916	Manganese-promoted Rh/Al <sub>2</sub> O <sub>3</sub> for C <sub>2</sub> -oxygenates synthesis from syngas: Effect of manganese loading. <i>Applied Catalysis A: General</i> , <b>2004</b> , 261, 47-55	5.1	110
915	Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al <sub>2</sub> O <sub>3</sub> modified with Ce and La. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 55, 229-241	21.8	110
914	Na-doped ruthenium perovskite electrocatalysts with improved oxygen evolution activity and durability in acidic media. <i>Nature Communications</i> , <b>2019</b> , 10, 2041	17.4	109
913	A density functional theory study of the dissociation of H <sub>2</sub> on gold clusters: importance of fluxionality and ensemble effects. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 164715	3.9	108
912	Effect of the carbon pre-treatment on the properties and performance for nitrobenzene hydrogenation of Pt/C catalysts. <i>Applied Catalysis A: General</i> , <b>1997</b> , 161, 213-226	5.1	107
911	Activation of methane by oxygen and nitrogen oxides. <i>Catalysis Reviews - Science and Engineering</i> , <b>2002</b> , 44, 1-58	12.6	107
910	Influence of molar ratio on Pd <sup>2</sup> /Pt catalysts for methane combustion. <i>Journal of Catalysis</i> , <b>2006</b> , 243, 14-24	7.3	106
909	Hydrodeoxygenation of guaiacol over carbon-supported molybdenum nitride catalysts: Effects of nitrating methods and support properties. <i>Applied Catalysis A: General</i> , <b>2012</b> , 439-440, 111-124	5.1	104
908	Enhancement of phenol hydrodeoxygenation over Pd catalysts supported on mixed HY zeolite and Al <sub>2</sub> O <sub>3</sub> . An approach to O-removal from bio-oils. <i>Fuel</i> , <b>2014</b> , 117, 1061-1073	7.1	102
907	Hydrogen production by oxidative reforming of hexadecane over Ni and Pt catalysts supported on Ce/La-doped Al <sub>2</sub> O <sub>3</sub> . <i>Applied Catalysis A: General</i> , <b>2006</b> , 297, 60-72	5.1	102
906	Dynamic behavior of supported vanadia catalysts in the selective oxidation of ethane: In situ Raman, UV-Vis DRS and reactivity studies. <i>Catalysis Today</i> , <b>2000</b> , 61, 295-301	5.3	101
905	Crotonaldehyde hydrogenation over bimetallic Pt <sup>2</sup> /Sn catalysts supported on pregraphitized carbon black. Effect of the Sn/Pt atomic ratio. <i>Applied Catalysis A: General</i> , <b>1996</b> , 136, 231-248	5.1	101
904	Catalytic combustion of methane over cerium-doped palladium catalysts. <i>Journal of Catalysis</i> , <b>2003</b> , 215, 78-86	7.3	99
903	Structural Characteristics and Reactivity/Reducibility Properties of Dispersed and Bilayered V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> /SiO <sub>2</sub> Catalysts. <i>Journal of Physical Chemistry B</i> , <b>1999</b> , 103, 618-629	3.4	99

902	Influence of Zn concentration in the activity of Cd <sub>1-x</sub> Zn <sub>x</sub> S solid solutions for water splitting under visible light. <i>Catalysis Today</i> , <b>2009</b> , 143, 51-56	5.3	98
901	Comparison of the morphology and HDS activity of ternary Co-Mo-W catalysts supported on P-modified SBA-15 and SBA-16 substrates. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 92, 168-184	21.8	98
900	AuPd alloy formation in Au-Pd/Al <sub>2</sub> O <sub>3</sub> catalysts and its role on aromatics hydrogenation. <i>Applied Surface Science</i> , <b>2005</b> , 242, 380-391	6.7	98
899	Hydrodeoxygenation of 2-methoxyphenol over Mo <sub>2</sub> N catalysts supported on activated carbons. <i>Catalysis Today</i> , <b>2011</b> , 172, 232-239	5.3	96
898	CoMo/Ti-SBA-15 catalysts for dibenzothiophene desulfurization. <i>Catalysis Today</i> , <b>2007</b> , 127, 70-84	5.3	96
897	Industrial H <sub>2</sub> -SCR of NO on a novel Pt/MgO/CeO <sub>2</sub> catalyst. <i>Applied Catalysis B: Environmental</i> , <b>2007</b> , 75, 147-156	21.8	96
896	Partial oxidation of methane to syngas over Ni/MgO and Ni/La <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis A: General</i> , <b>2005</b> , 289, 214-223	5.1	96
895	Metal-support interactions and reactivity of Co/CeO <sub>2</sub> catalysts in the Fischer-Tropsch synthesis reaction. <i>Journal of Catalysis</i> , <b>2005</b> , 234, 451-462	7.3	95
894	Hydrogen peroxide decomposition over Ln <sub>1-x</sub> A <sub>x</sub> MnO <sub>3</sub> (Ln = La or Nd and A = K or Sr) perovskites. <i>Applied Catalysis A: General</i> , <b>2001</b> , 215, 245-256	5.1	95
893	A Comparison of the Reactivity of Nonequilibrated and Equilibrated VPO Catalysts: Structural Evolution, Surface Characterization, and Reactivity in the Selective Oxidation of n-Butane and n-Pentane. <i>Journal of Catalysis</i> , <b>1996</b> , 160, 52-64	7.3	95
892	Mechanistic aspects of the ethanol steam reforming reaction for hydrogen production on Pt, Ni, and PtNi catalysts supported on gamma-Al <sub>2</sub> O <sub>3</sub> . <i>Journal of Physical Chemistry A</i> , <b>2010</b> , 114, 3873-82	2.8	94
891	Supported PtSn catalysts highly selective for isobutane dehydrogenation: preparation, characterization and catalytic behavior. <i>Applied Catalysis A: General</i> , <b>1999</b> , 189, 77-86	5.1	94
890	Zero valent iron (ZVI) mediated Fenton degradation of industrial wastewater: Treatment performance and characterization of final composites. <i>Chemical Engineering Journal</i> , <b>2015</b> , 269, 298-305	14.7	93
889	Soybean oil epoxidation with hydrogen peroxide using an amorphous Ti/SiO <sub>2</sub> catalyst. <i>Green Chemistry</i> , <b>2004</b> , 6, 330-334	10	93
888	Selective Oxidation of Ethanol to Acetaldehyde on V <sub>2</sub> O <sub>5</sub> /TiO <sub>2</sub> /SiO <sub>2</sub> Catalysts. <i>Journal of Catalysis</i> , <b>1997</b> , 171, 1-13	7.3	92
887	3D free-standing porous scaffolds made of graphene oxide as substrates for neural cell growth. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 5698-5706	7.3	91
886	Comparison of alumina- and SBA-15-supported molybdenum nitride catalysts for hydrodeoxygenation of guaiacol. <i>Applied Catalysis A: General</i> , <b>2012</b> , 435-436, 51-60	5.1	91
885	Fischer-Tropsch synthesis on mono- and bimetallic Co and Fe catalysts in fixed-bed and slurry reactors. <i>Applied Catalysis A: General</i> , <b>2007</b> , 326, 65-73	5.1	91

884	Synthesis of Rh nano-particles by the microemulsion technology. <i>Applied Catalysis A: General</i> , <b>2004</b> , 274, 33-41	5.1	91
883	Influence of feed composition on the activity of Mn and PdMn/Al <sub>2</sub> O <sub>3</sub> catalysts for combustion of formaldehyde/methanol. <i>Applied Catalysis B: Environmental</i> , <b>2005</b> , 57, 191-199	21.8	91
882	Raman spectroscopy during catalytic operations with on-line activity measurement (operando spectroscopy): a method for understanding the active centres of cations supported on porous materials. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3337-3342		91
881	Life cycle assessment of alternatives for hydrogen production from renewable and fossil sources. <i>International Journal of Hydrogen Energy</i> , <b>2012</b> , 37, 1173-1183	6.7	90
880	Improved stability of Ni/Al <sub>2</sub> O <sub>3</sub> catalysts by effect of promoters (La <sub>2</sub> O <sub>3</sub> , CeO <sub>2</sub> ) for ethanol steam-reforming reaction. <i>Catalysis Today</i> , <b>2016</b> , 259, 27-38	5.3	89
879	Novel Synthesis Method of CO-Tolerant PtRuMoO <sub>x</sub> Nanoparticles: Structural Characteristics and Performance for Methanol Electrooxidation. <i>Chemistry of Materials</i> , <b>2008</b> , 20, 4249-4259	9.6	89
878	On the origin of the high performance of MWNT-supported PtPd catalysts for the hydrogenation of aromatics. <i>Carbon</i> , <b>2006</b> , 44, 84-98	10.4	88
877	Surface behaviour of reduced LaCoO <sub>3</sub> as studied by TPD of CO, CO <sub>2</sub> and H <sub>2</sub> probes and by XPS. <i>Applied Surface Science</i> , <b>1988</b> , 31, 301-316	6.7	88
876	Structural features and performance of LaNi <sub>1-x</sub> Rh <sub>x</sub> O <sub>3</sub> system for the dry reforming of methane. <i>Applied Catalysis A: General</i> , <b>2008</b> , 344, 10-19	5.1	87
875	Immobilization of 12-molybdophosphoric and 12-tungstophosphoric acids on metal-substituted hexagonal mesoporous silica. <i>Applied Catalysis A: General</i> , <b>2003</b> , 256, 183-197	5.1	87
874	Structural Characteristics and Catalytic Properties of Highly Dispersed ZrO <sub>2</sub> /SiO <sub>2</sub> and V <sub>2</sub> O <sub>5</sub> /ZrO <sub>2</sub> /SiO <sub>2</sub> Catalysts. <i>Langmuir</i> , <b>1999</b> , 15, 3169-3178	4	86
873	Tailoring and structure of PtRu nanoparticles supported on functionalized carbon for DMFC applications: New evidence of the hydrous ruthenium oxide phase. <i>Applied Catalysis B: Environmental</i> , <b>2009</b> , 88, 505-514	21.8	85
872	Catalytic and structural properties of co-precipitated Mg <sub>2</sub> Ir mixed oxides for furfural valorization via aqueous aldol condensation with acetone. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 101, 638-648	21.8	85
871	Surface properties and catalytic performance for ethane combustion of La <sub>1-x</sub> K <sub>x</sub> MnO <sub>3</sub> + $\delta$ perovskites. <i>Applied Catalysis A: General</i> , <b>2001</b> , 207, 17-24	5.1	84
870	Role of bulk and surface structures of La <sub>1-x</sub> Sr <sub>x</sub> NiO <sub>3</sub> perovskite-type oxides in methane combustion. <i>Applied Catalysis B: Environmental</i> , <b>2001</b> , 33, 45-55	21.8	84
869	Ni <sub>2</sub> P and CoP catalysts prepared from phosphite-type precursors for HDS/BDN competitive reactions. <i>Applied Catalysis A: General</i> , <b>2010</b> , 390, 253-263	5.1	83
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865	Performance of La,Ce-modified alumina-supported Pt and Ni catalysts for the oxidative reforming of diesel hydrocarbons. <i>International Journal of Hydrogen Energy</i> , <b>2008</b> , 33, 652-663	6.7	82
864	The Partial Oxidation of Methane on MoO <sub>3</sub> /SiO <sub>2</sub> Catalysts: Influence of the Molybdenum Content and Type of Oxidant. <i>Journal of Catalysis</i> , <b>1993</b> , 142, 406-417	7.3	82
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862	Phosphate-functionalized carbon monoliths from deep eutectic solvents and their use as monolithic electrodes in supercapacitors. <i>ChemSusChem</i> , <b>2012</b> , 5, 1405-9	8.3	81
861	Oxidative reforming of diesel fuel over LaCoO <sub>3</sub> perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. <i>Applied Catalysis B: Environmental</i> , <b>2011</b> , 105, 276-288	21.8	81
860	Synthesis and Characterization of Zwitterionic SBA-15 Nanostructured Materials. <i>Chemistry of Materials</i> , <b>2010</b> , 22, 6459-6466	9.6	81
859	Sulfonic acid-functionalized silica through quantitative oxidation of thiol groups. <i>Chemical Communications</i> , <b>2003</b> , 246-7	5.8	81
858	Effect of Ce-doping on Rh/ZrO <sub>2</sub> catalysts for partial oxidation of methane. <i>Applied Catalysis A: General</i> , <b>2007</b> , 326, 8-16	5.1	80
857	Silylation and surface properties of chemically grafted hydrophobic silica. <i>Journal of Colloid and Interface Science</i> , <b>2004</b> , 277, 146-53	9.3	80
856	Carbon-supported tungsten and nickel catalysts for hydrodesulfurization and hydrogenation reactions. <i>Applied Catalysis A: General</i> , <b>2001</b> , 206, 295-307	5.1	80
855	X-ray Photoelectron Spectroscopic Study of Petroleum Fuel Cokes. <i>Surface and Interface Analysis</i> , <b>1996</b> , 24, 223-236	1.5	80
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720	X-ray photoelectron spectroscopic study of non-stoichiometric nickel and nickel-copper spinel manganites. <i>Solid State Sciences</i> , <b>2000</b> , 2, 419-426		46
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217	Enantioselective hydrogenation of 1-phenyl-propane-1,2-dione on immobilised cinchonidine Pt/SiO <sub>2</sub> catalysts. <i>Journal of Molecular Catalysis A</i> , <b>2011</b> , 348, 30-41		10
216	Hydrodesulfurization-Hydrogenation of Ni-Containing Ultrastable HY Zeolites. <i>Bulletin Des Sociétés Chimiques Belges</i> , <b>2010</b> , 100, 915-921		10
215	Improved activity of Pt/γ-Al <sub>2</sub> O <sub>3</sub> catalysts for CH <sub>4</sub> O <sub>2</sub> reaction under lean conditions due to sulfation and catalyst loading. <i>Catalysis Communications</i> , <b>2008</b> , 9, 2601-2605	3.2	10
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212	Production of hydrogen by partial oxidation of methanol over carbon-supported copper catalysts. <i>Topics in Catalysis</i> , <b>2004</b> , 30/31, 481-486	2.3	10
211	Influence of oxidation and carbon-containing contamination in the stabilization of the luminescence in porous silicon. <i>Thin Solid Films</i> , <b>1999</b> , 354, 34-37	2.2	10
210	Structural features and activity for CO oxidation of LaFexNi <sub>1-x</sub> O <sub>3</sub> +γ catalysts. <i>Studies in Surface Science and Catalysis</i> , <b>2000</b> , 2195-2200	1.8	10
209	X-Ray photoelectron spectroscopy and optical studies of Bi <sub>2</sub> (GaxBi <sub>1-x</sub> )O <sub>20</sub> and Bi <sub>2</sub> (ZnxBi <sub>1-x</sub> )O <sub>20</sub> single crystals. <i>Journal of Physics and Chemistry of Solids</i> , <b>1996</b> , 57, 1667-1672	3.9	10
208	Chemical vapor deposition synthesis and characterization of co-deposited silicon-nitrogen-boron materials. <i>Journal of Materials Research</i> , <b>1996</b> , 11, 2565-2574	2.5	10
207	Structure and reactivity of undoped and sodium-doped PbO/γ-Al <sub>2</sub> O <sub>3</sub> catalysts for oxidative coupling of methane. <i>Applied Catalysis A: General</i> , <b>1994</b> , 111, 79-97	5.1	10
206	Structure of unpromoted and alkali-metal promoted MnO <sub>x</sub> -based catalysts for oxidative coupling of methane. <i>Applied Catalysis</i> , <b>1990</b> , 61, 311-328		10
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199	Silane coupling agent structures on carbon nanofibers. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 4142-52	1.3	9
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194	The inhibiting effect of extra-framework Al on monolithic Co-ZSM5 catalysts used for NO SCR. <i>Catalysis Today</i> , <b>2008</b> , 133-135, 428-434	5.3	9
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