

Fanor Mondragon

List of Publications by Year in descending order

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44
papers

2,958
citations

147801

31
h-index

254184

43
g-index

44
all docs

44
docs citations

44
times ranked

2911
citing authors

#	ARTICLE	IF	CITATIONS
1	Reactivity of coal gasification with steam and CO ₂ . <i>Fuel</i> , 1998, 77, 1831-1839.	6.4	227
2	High stability of Ce-promoted Ni/Mg-Al catalysts derived from hydrotalcites in dry reforming of methane. <i>Fuel</i> , 2010, 89, 592-603.	6.4	214
3	CO ₂ reforming of CH ₄ over La-Ni based perovskite precursors. <i>Applied Catalysis A: General</i> , 2006, 311, 164-171.	4.3	204
4	Dry reforming of methane over LaNi _{1-x} ByO _{3±1} (B=Mg, Co) perovskites used as catalyst precursor. <i>Applied Catalysis A: General</i> , 2008, 334, 251-258.	4.3	204
5	Influence of Pr and Ce in dry methane reforming catalysts produced from La _{1-x} NiO _{3±1} perovskites. <i>Applied Catalysis A: General</i> , 2009, 369, 97-103.	4.3	141
6	Effect of MgO addition on the basicity of Ni/ZrO ₂ and on its catalytic activity in carbon dioxide reforming of methane. <i>Catalysis Communications</i> , 2009, 11, 240-246.	3.3	128
7	CO ₂ reforming of methane over Ni/Mg/Al/Ce mixed oxides. <i>Catalysis Today</i> , 2008, 133-135, 357-366.	4.4	125
8	CO Desorption from Oxygen Species on Carbonaceous Surface: 1. Effects of the Local Structure of the Active Site and the Surface Coverage. <i>Journal of Physical Chemistry A</i> , 2001, 105, 6757-6764.	2.5	120
9	CO ₂ adsorption on carbonaceous surfaces: a combined experimental and theoretical study. <i>Carbon</i> , 2003, 41, 29-39.	10.3	111
10	Chemical and morphological characterization of soot and soot precursors generated in an inverse diffusion flame with aromatic and aliphatic fuels. <i>Combustion and Flame</i> , 2010, 157, 33-42.	5.2	104
11	Variations in the chemical composition and morphology of soot induced by the unsaturation degree of biodiesel and a biodiesel blend. <i>Combustion and Flame</i> , 2012, 159, 1100-1108.	5.2	104
12	First-Principles Kinetics of CO Desorption from Oxygen Species on Carbonaceous Surface. <i>Journal of Physical Chemistry A</i> , 2002, 106, 4236-4239.	2.5	99
13	FT-IR and ¹ H NMR characterization of the products of an ethylene inverse diffusion flame. <i>Combustion and Flame</i> , 2006, 146, 52-62.	5.2	91
14	Carbon dioxide reforming of methane over La ₂ NiO ₄ as catalyst precursor Characterization of carbon deposition. <i>Catalysis Today</i> , 2008, 133-135, 200-209.	4.4	89
15	CO ₂ reforming of methane over LaNiO ₃ as precursor material. <i>Catalysis Today</i> , 2005, 107-108, 474-480.	4.4	77
16	A DFT Study of Interaction of Carbon Monoxide with Carbonaceous Materials. <i>Journal of Physical Chemistry B</i> , 2004, 108, 1003-1008.	2.6	74
17	Influence of palm oil biodiesel on the chemical and morphological characteristics of particulate matter emitted by a diesel engine. <i>Atmospheric Environment</i> , 2012, 62, 220-227.	4.1	66
18	Formation of CO precursors during char gasification with O ₂ , CO ₂ and H ₂ O. <i>Fuel Processing Technology</i> , 2002, 77-78, 125-130.	7.2	62

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19	The use of differential scanning calorimetry to identify coals susceptible to spontaneous combustion. <i>Thermochimica Acta</i> , 1999, 336, 41-46.	2.7	56
20	Production of hydrogen and MWCNTs by methane decomposition over catalysts originated from LaNiO ₃ perovskite. <i>Catalysis Today</i> , 2010, 149, 365-371.	4.4	55
21	Thermodynamic evaluation of steam gasification mechanisms of carbonaceous materials. <i>Carbon</i> , 2009, 47, 3010-3018.	10.3	47
22	Chemical characterization of soot precursors and soot particles produced in hexane and diesel surrogates using an inverse diffusion flame burner. <i>Fuel</i> , 2013, 104, 681-690.	6.4	47
23	Role of the Epoxy Group in the Heterogeneous CO ₂ Evolution in Carbon Oxidation Reactions. <i>Journal of Physical Chemistry C</i> , 2007, 111, 612-617.	3.1	45
24	Mechanisms of NH ₃ formation during the reaction of H ₂ with nitrogen containing carbonaceous materials. <i>Carbon</i> , 2007, 45, 2273-2279.	10.3	44
25	Experimental characterization and molecular simulation of nitrogen complexes formed upon NO- <i>char</i> reaction at 270 °C in the presence of H ₂ O and O ₂ . <i>Carbon</i> , 2004, 42, 1507-1515.	10.3	41
26	Production and utilization performance of a glycerol derived additive for diesel engines. <i>Fuel</i> , 2012, 92, 130-136.	6.4	40
27	Mechanisms for methane and ethane formation in the reaction of hydrogen with carbonaceous materials. <i>Carbon</i> , 2005, 43, 1820-1827.	10.3	36
28	Low-Temperature Catalytic Adsorption of NO on Activated Carbon Materials. <i>Langmuir</i> , 2007, 23, 12131-12137.	3.5	35
29	Surface Complexes Formed during Simultaneous Catalytic Adsorption of NO and SO ₂ on Activated Carbons at Low Temperatures. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1417-1423.	3.1	34
30	Average structural analysis of the extractable material of young soot gathered in an ethylene inverse diffusion flame. <i>Fuel</i> , 2007, 86, 1908-1917.	6.4	34
31	Heterogeneous CO ₂ Evolution from Oxidation of Aromatic Carbon-Based Materials. <i>Journal of Physical Chemistry A</i> , 2009, 113, 8415-8420.	2.5	34
32	Effect of calcium on gasification of carbonaceous materials with CO ₂ : A DFT study. <i>Fuel</i> , 2013, 114, 199-205.	6.4	30
33	Adsorption on carbonaceous surfaces: cost-effective computational strategies for quantum chemistry studies of aromatic systems. <i>Carbon</i> , 2002, 40, 1863-1872.	10.3	28
34	Kinetics of nitric oxide desorption from carbonaceous surfaces. <i>Fuel Processing Technology</i> , 2002, 77-78, 453-458.	7.2	19
35	Effect of ethanol on the chemical structure of the soot extractable material of an ethylene inverse diffusion flame. <i>Combustion and Flame</i> , 2007, 151, 235-244.	5.2	14
36	Activation energies and structural changes in carbon nanotubes during different acid treatments. <i>Journal of Thermal Analysis and Calorimetry</i> , 2013, 114, 597-602.	3.6	14

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37	Chemical Characteristics of the Soot Produced in a High-Speed Direct Injection Engine Operated with Diesel/Biodiesel Blends. <i>Combustion Science and Technology</i> , 2012, 184, 1179-1190.	2.3	12
38	Variations of the Soot Precursors Chemical Composition Induced by Ethanol Addition to Fuel. <i>Energy & Fuels</i> , 2012, 26, 6602-6611.	5.1	12
39	Transition-metal atom adsorption on an F defect site of MgO (100) and the interaction with a hydrogen atom. <i>Physical Review B</i> , 2006, 73, .	3.2	11
40	Experimental and Computational Analysis of the Formation of Surface Oxygen Functional Groups during Iron Catalyzed Char Gasification with CO ₂ . <i>Combustion Science and Technology</i> , 2018, 190, 687-706.	2.3	10
41	Activation of CO ₂ on Ni/La ₂ O ₃ : non-isothermal kinetic study on the basis of thermogravimetric studies. <i>Reaction Kinetics, Mechanisms and Catalysis</i> , 2016, 119, 179-193.	1.7	9
42	Desorption activation energy distribution function of nitric oxide chemisorbed on carbonaceous materials at 373 K. <i>Carbon</i> , 2005, 43, 1445-1452.	10.3	6
43	Role of Glass Transitions in Determining Enthalpies of Air Oxidation in North Dakota Lignite. <i>Energy & Fuels</i> , 1994, 8, 1002-1003.	5.1	4
44	Mechanisms of Carbon Gasification Reactions Using Electronic Structure Methods. , 2011, , 445-501.		1