Rafael Molina

List of Publications by Year
in descending order

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87 papers	3,561 citations	126858 33 h-index	143943 57 g-index
89 all docs	89 docs citations	89 times ranked	3080 citing authors

#	Article	IF	Citations
1	Hydrocracking of 1-methylnaphtalene (1MN) over modified clays-supported NiMoS and NiWS catalyst. Fuel, 2021, 295, 120612.	3.4	14
2	Heteropolyacids supported on clay minerals as bifunctional catalysts for the hydroconversion of decane. Applied Catalysis B: Environmental, 2021, 297, 120464.	10.8	18
3	Pillarization in concentrated media with solid Al and Al-Zr polymers to obtain acid catalysts. Catalysis Today, 2020, 356, 284-291.	2.2	8
4	Bifunctional catalysts supported on modified vermiculite for the hydroconversion of decane. Effect of the metal phase (Mo or W) and promoters (Ni or Co). Catalysis Today, 2020, 356, 271-283.	2.2	6
5	Potentialization of bentonite properties as support in acid catalysts. Materials Research Bulletin, 2020, 123, 110728.	2.7	15
6	CoMnMgAl mixed oxides prepared by a microwave assisted self-combustion synthesis for toluene total oxidation. Molecular Catalysis, 2020, 493, 111080.	1.0	5
7	Modulation of the acidity of a vermiculite and its potential use as a catalytic support. Journal of Materials Science, 2020, 55, 6482-6501.	1.7	4
8	Mo or W catalysts promoted with Ni or Co supported on modified bentonite for decane hydroconversion. New Journal of Chemistry, 2020, 44, 2966-2979.	1.4	12
9	Comparison of the Catalytic Performance of Ni, Mo, and Niâ€“Mo Impregnated on Acid Halloysite Nanotubes in the n-Decane Hydroconversion. Energy & Fuels, 2019, 33, 12647-12655.	2.5	6
10	Modified Vermiculite for Hydrocracking of Athabasca Bitumen. Energy & Fuels, 2019, 33, 5153-5161.	2.5	8
11	Oxygen mobility and its relationship with the oxidative steam reforming of ethanol (OSRE). Applied Surface Science, 2019, 485, 293-303.	3.1	10
12	Hydroconversion of n-Decane over Niâ€“Mo Supported on Modified Halloysite Catalysts. Energy & Fuels, 2018, 32, 9782-9792.	2.5	21
13	Effects of the cobalt content of catalysts prepared from hydrotalcites synthesized by ultrasound-assisted coprecipitation on hydrogen production by oxidative steam reforming of ethanol (OSRE). Fuel, 2017, 194, 7-16.	3.4	35
14	Oxidative steam reforming of ethanol (OSRE) over stable NiCoâ€“MgAl catalysts by microwave or sonication assisted coprecipitation. International Journal of Hydrogen Energy, 2017, 42, 12284-12294.	3.8	24
15	Incorporation of Ni and Mo on delaminated clay by auto-combustion and impregnation for obtaining decane hydroconversion catalysts. Catalysis Today, 2017, 296, 205-213.	2.2	14
16	Effect of Mg and Al on manganese oxides as catalysts for VOC oxidation. Molecular Catalysis, 2017, 443, 117-124.	1.0	35
17	Storage capacity and oxygen mobility in mixed oxides from transition metals promoted by cerium. Applied Surface Science, 2016, 383, 42-48.	3.1	14
18	Promoter effect of Ce and Pr on the catalytic stability of the Ni-Co system for the oxidative steam reforming of ethanol. Applied Catalysis A: General, 2016, 526, 84-94.	2.2	28

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19	Oxygen Storage Capacity and Oxygen Mobility of Co-Mn-Mg-Al Mixed Oxides and Their Relation in the VOC Oxidation Reaction. Catalysts, 2015, 5, 905-925.	1.6	16
20	Cooperative effect of the Coâ€“Mn mixed oxides for the catalytic oxidation of VOCs: Influence of the synthesis method. Applied Catalysis A: General, 2015, 492, 48-59.	2.2	130
21	Catalytic oxidation of VOCs on MnMgAlOx mixed oxides obtained by auto-combustion. Journal of Molecular Catalysis A, 2015, 398, 358-367.	4.8	37
22	Catalytic wet hydrogen peroxide oxidation of phenolic compounds in coffee wastewater using Alâ€“Fe-pillared clay extrudates. Desalination and Water Treatment, 2015, 55, 647-654.	1.0	7
23	Catalizadores de manganeso sintetizados por autocombustiÃ³n y coprecipitaciÃ³n y su empleo en la oxidaciÃ³n del 2-propanol. Revista De La Academia Colombiana De Ciencias Exactas, Fisicas Y Naturales, 2015, 39, 26.	0.0	2
24	Enhanced VOC oxidation over Ce/CoMgAl mixed oxides using a reconstruction method with EDTA precursors. Applied Catalysis A: General, 2014, 477, 109-116.	2.2	28
25	Nickel catalysts obtained from hydrotalcites by coprecipitation and urea hydrolysis for hydrogen production. International Journal of Hydrogen Energy, 2014, 39, 8225-8237.	3.8	34
26	Modified clays as catalysts for the catalytic oxidation of ethanol. Applied Clay Science, 2014, 95, 18-24.	2.6	23
27	EDTA-Ce(III) Modified Pt Vulcan XC-72 Catalyst Synthesis for Methanol Oxidation in Acid Solution. Electrocatalysis, 2014, 5, 50-61.	1.5	7
28	The effect of the absence of Ni, Co, and Niâ€“Co catalyst pretreatment on catalytic activity for hydrogen production via oxidative steam reforming of ethanol. International Journal of Hydrogen Energy, 2014, 39, 10074-10089.	3.8	39
29	Mnâ€“Coâ€“Alâ€“Mg mixed oxides by auto-combustion method and their use as catalysts in the total oxidation of toluene. Journal of Molecular Catalysis A, 2013, 370, 167-174.	4.8	21
30	Promoting effect of Ce and Pr in Co catalysts for hydrogen production via oxidative steam reforming of ethanol. Catalysis Today, 2013, 213, 33-41.	2.2	28
31	Development of Pillared Clays for Wet Hydrogen Peroxide Oxidation of Phenol and Its Application in the Posttreatment of Coffee Wastewater. International Journal of Photoenergy, 2012, 2012, 1-17.	1.4	14
32	Catalytic oxidation with Alâ€“Ceâ€“Feâ€“PILC as a post-treatment system for coffee wet processing wastewater. Water Science and Technology, 2012, 66, 1663-1668.	1.2	4
33	Raschig Rings Based on Pillared Clays: Efficient Reusable Catalysts for Oxidation of Phenol. Journal of Advanced Oxidation Technologies, 2012, 15, .	0.5	0
34	Synthesis of Ce and Pr-promoted Ni and Co catalysts from hydrotalcite type precursors by reconstruction method. International Journal of Hydrogen Energy, 2012, 37, 18827-18842.	3.8	62
35	Gold supported on pillared clays for CO oxidation reaction: Effect of the clay aggregate size. Applied Clay Science, 2012, 69, 22-29.	2.6	16
36	Ce - promoted catalyst from hydrotalcites for CO2 reforming of methane: calcination temperature effect. Quimica Nova, 2012, 35, 1325-1328.	0.3	7

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37	Cooperative effect of Ce and Pr in the catalytic combustion of ethanol in mixed Cu/CoMgAl oxides obtained from hydrotalcites. Applied Catalysis A: General, 2011, 408, 96-104.	2.2	29
38	Catalytic activity of Coâ€“Mg mixed oxides in the VOC oxidation: Effects of ultrasonic assisted in the synthesis. Catalysis Today, 2011, 176, 286-291.	2.2	49
39	High-Stable Mesoporous Ni-Ce/Clay Catalysts for Syngas Production. Catalysis Letters, 2011, 141, 1037-1046.	1.4	25
40	Cuâ€“Mn and Coâ€“Mn catalysts synthesized from hydrotalcites and their use in the oxidation of VOCs. Applied Catalysis B: Environmental, 2011, 104, 144-150.	10.8	219
41	Catalytic performance of Niâ€“Pr supported on delaminated clay in the dry reforming of methane. International Journal of Hydrogen Energy, 2011, 36, 1540-1550.	3.8	64
42	Co-precipitated Niâ€“Mgâ€“Al catalysts containing Ce for CO2 reforming of methane. International Journal of Hydrogen Energy, 2011, 36, 3886-3894.	3.8	93
43	Approach to a Descriptive Model of Charge Reduction in Vermiculite by Hydrothermal Treatment. Clays and Clay Minerals, 2010, 58, 97-109.	0.6	1
44	High stability of Ce-promoted Ni/Mgâ€“Al catalysts derived from hydrotalcites in dry reforming of methane. Fuel, 2010, 89, 592-603.	3.4	214
45	Syngas production from CO2 reforming of methane using Ce-doped Ni-catalysts obtained from hydrotalcites by reconstruction method. Applied Catalysis A: General, 2010, 378, 125-133.	2.2	81
46	Mn, Mn-Cu and Mn-Co mixed oxides as catalysts synthesized from hydrotalcite type precursors for the total oxidation of ethanol. Studies in Surface Science and Catalysis, 2010, , 513-516.	1.5	5
47	Ce-incorporation in mixed oxides obtained by the self-combustion method for the preparation of high performance catalysts for the CO2 reforming of methane. Catalysis Communications, 2010, 12, 173-179.	1.6	28
48	Mechanical and textural properties of extruded materials manufactured with AlFe and AlCeFe pillared bentonites. Applied Clay Science, 2010, 47, 283-289.	2.6	30
49	Effect of Ultrasound on the Structural and Textural Properties of Alâ€“Fe Pillared Clays in a Concentrated Medium. Catalysis Letters, 2009, 130, 664-671.	1.4	25
50	Pillared clays with Alâ€“Fe and Alâ€“Ceâ€“Fe in concentrated medium: Synthesis and catalytic activity. Applied Catalysis A: General, 2009, 356, 243-249.	2.2	71
51	Deposition of Al-Fe pillared bentonites and gold supported Al-Fe pillared bentonites on metallic monoliths for catalytic oxidation reactions. Applied Catalysis A: General, 2009, 364, 166-173.	2.2	30
52	Synthesis of pillared clays with Al13-Fe and Al13-Fe-Ce polymers in solid state assisted by microwave and ultrasound: Characterization and catalytic activity. Applied Catalysis A: General, 2009, 370, 7-15.	2.2	35
53	Dry reforming of methane using Niâ€“Ce catalysts supported on a modified mineral clay. Applied Catalysis A: General, 2009, 364, 65-74.	2.2	100
54	Synthesis of pillared clays with Alâ€“Fe and Alâ€“Feâ€“Ce starting from concentrated suspensions of clay using microwaves or ultrasound, and their catalytic activity in the phenol oxidation reaction. Applied Catalysis B: Environmental, 2009, 93, 56-65.	10.8	27

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55	Stability of Niâ^'Ce Catalysts Supported over Al-PVA Modified Mineral Clay in Dry Reforming of Methane. Energy & Fuels, 2009, 23, 3497-3509.	2.5	18
56	Synthesis of pillared clays with aluminum by means of concentrated suspensions and microwave radiation. Catalysis Communications, 2009, 10, 697-701.	1.6	34
57	Relation between immersion enthalpy and the acidity of clay pillared minerals. Journal of Thermal Analysis and Calorimetry, 2008, 92, 899-904.	2.0	6
58	Decane hydroconversion with Alâ€"Zr, Alâ€"Hf, Alâ€"Ce-pillared vermiculites. Applied Catalysis A: General, 2008, 345, 112-118.	2.2	21
59	Fractal dimension and energetic heterogeneity of gold-modified Alâ€"Feâ€"Ce pilcâ€™s. Applied Surface Science, 2008, 255, 3354-3360.	3.1	17
60	CO2 reforming of methane over Ni/Mg/Al/Ce mixed oxides. Catalysis Today, 2008, 133-135, 357-366.	2.2	125
61	Synthesis of pillared bentonite starting from the Alâ€"Fe polymeric precursor in solid state, and its catalytic evaluation in the phenol oxidation reaction. Catalysis Today, 2008, 133-135, 530-533.	2.2	40
62	Relationship between hydrothermal treatment parameters as a strategy to reduce layer charge in vermiculite, and its catalytic behavior. Catalysis Today, 2008, 133-135, 351-356.	2.2	18
63	The effect of ultrasound in the synthesis of clays used as catalysts in oxidation reactions. Catalysis Today, 2008, 133-135, 526-529.	2.2	27
64	A study on Al and Alâ€"Ceâ€"Fe pillaring species and their catalytic potential as they are supported on a bentonite. Applied Catalysis A: General, 2008, 334, 168-172.	2.2	46
65	Acidity characterization of a titanium and sulfate modified vermiculite. Materials Research Bulletin, 2008, 43, 1630-1640.	2.7	8
66	Hydroisomerization of decane on Pt/Al, Ce-pillared vermiculites. Studies in Surface Science and Catalysis, 2007, 170, 1405-1410.	1.5	7
67	Effect of Fe and Ce on Al-pillared bentonite and their performance in catalytic oxidation reactions. Applied Catalysis A: General, 2007, 317, 120-128.	2.2	91
68	Gold supported on Fe, Ce, and Al pillared bentonites for CO oxidation reaction. Applied Catalysis B: Environmental, 2007, 72, 157-165.	10.8	46
69	Hydroconversion of heptane over a Colombian montmorillonite modified with mixed pillars of Alâ€"Zr and Alâ€"Si. Catalysis Today, 2005, 107-108, 426-430.	2.2	12
70	Synthesis of pillared clays containing Al, Al-Fe or Al-Ce-Fe from a bentonite: Characterization and catalytic activity. Catalysis Today, 2005, 107-108, 126-132.	2.2	91
71	Characterization of reduced Î±-alumina-supported nickel catalysts by spectroscopic and chemisorption measurements. Applied Catalysis A: General, 2005, 288, 232-242.	2.2	123
72	Heterogeneous photo-Fenton degradation of phenolic aqueous solutions over iron-containing SBA-15 catalyst. Applied Catalysis B: Environmental, 2005, 60, 181-190.	10.8	151

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73	Charge Reduction in a Vermiculite by Acid and Hydrothermal Methods:â€‰ A Comparative Study. Journal of Physical Chemistry B, 2005, 109, 19026-19033.	1.2	18
74	Activity and resistance of iron-containing amorphous, zeolitic and mesostructured materials for wet peroxide oxidation of phenol. Water Research, 2005, 39, 1741-1750.	5.3	82
75	Catalytic wet peroxide oxidation of phenol by pillared clays containing Alâ€“Ceâ€“Fe. Water Research, 2005, 39, 3891-3899.	5.3	124
76	Modifying bentonite with Al-Fe from concentrated clay suspensions. Ingenieria E Investigacion, 2005, 25, 49-57.	0.2	0
77	Hydrogenation of Benzene over Alumina-Supported Nickel Catalysts Prepared from Ni(II) Acetylacetonate. Journal of Catalysis, 2001, 199, 162-170.	3.1	83
78	Al-pillared hectorite and montmorillonite prepared from concentrated clay suspensions: structural, textural and catalytic properties. Studies in Surface Science and Catalysis, 2000, 130, 983-988.	1.5	9
79	A X-ray photoelectron spectroscopy investigation of Î±-alumina-supported nickel catalysts prepared from nickel (II) acetylacetonate. Studies in Surface Science and Catalysis, 2000, , 3333-3338.	1.5	1
80	Reducibility of ruthenium in relation with zeolite structure. Applied Surface Science, 1999, 141, 164-176.	3.1	43
81	Al-, Al,Zr-, and Zr-Pillared Montmorillonites and Saponites: Preparation, Characterization, and Catalytic Activity in Heptane Hydroconversion. Journal of Catalysis, 1999, 182, 174-185.	3.1	68
82	Î±-Alumina-Supported Nickel Catalysts Prepared with Nickel Acetylacetonate. 2. A Study of the Thermolysis of the Metal Precursor. Journal of Physical Chemistry B, 1999, 103, 11290-11296.	1.2	40
83	Î±-Alumina-Supported Nickel Catalysts Prepared with Nickel Acetylacetonate. 1. Adsorption in the Liquid Phase. Journal of Physical Chemistry B, 1999, 103, 6036-6046.	1.2	28
84	Î±-Alumina-Supported Nickel Catalysts Prepared from Nickel Acetylacetonate: A TPR Study. Journal of Catalysis, 1998, 173, 257-267.	3.1	147
85	Transformation of m-Xylene over Al-Pillared Clays and Ultrastable Zeolite Y. Journal of Catalysis, 1994, 145, 79-85.	3.1	59
86	Hydroisomerization-Hydrocracking of Decane over Al- and Ga-Pillared Clays. Journal of Catalysis, 1994, 148, 304-314.	3.1	55
87	Hydroxy-Al Pillaring of Concentrated Clay Suspensions. Clays and Clay Minerals, 1992, 40, 480-482.	0.6	45