Rufino M Navarro

List of Publications by Year in Descending Order

118 papers	7,612 citations	43 h-index	85 g-index
126 ext. papers	8,251 ext. citations	7.1 avg, IF	5.95 L-index

#	Paper	IF	Citations
118	Direct Synthesis of Dimethyl Ether from CO2: Recent Advances in Bifunctional/Hybrid Catalytic Systems. *Catalysts*, **2021**, 11, 411	4	13
117	PtBiVO4/TiO2 composites as Z-scheme photocatalysts for hydrogen production from ethanol: the effect of BiVO4 and Pt on the photocatalytic efficiency. *New Journal of Chemistry*, **2021**, 45, 4481-4495	3.6	2
116	Structural, Optical and Photocatalytic Characterization of ZnxCd1−xS Solid Solutions Synthetized Using a Simple Ultrasonic Radiation Method. *Energies*, **2020**, 13, 5603	3.1	1
115	Effect of photodeposition conditions on NiCdS photocatalysts and its role in the photoactivity for H2 production from ethanolic solutions. *International Journal of Hydrogen Energy*, **2020**, 45, 20536-20548	6.7	11
114	Factors influencing selectivity in the liquid-phase phenol hydrodeoxygenation over ZSM-5 supported Pt/Ir and Pt+Ir catalysts. *Molecular Catalysis*, **2020**, 482, 110669	3.3	1
113	Lower methane combustion temperature on palladium nanoparticles anchored on TiOx subnano-islets in stellate mesoporous silica nanospheres. *New Journal of Chemistry*, **2020**, 44, 906-919	3.6	0
112	Direct Synthesis of Dimethyl Ether from Syngas on Bifunctional Hybrid Catalysts Based on Supported H3PW12O40 and Cu-ZnO(Al): Effect of Heteropolyacid Loading on Hybrid Structure and Catalytic Activity. *Catalysts*, **2020**, 10, 1071	4	3
111	Unravelling the Structural Modification (Meso-Nano-) of Cu/ZnO-Al2O3 Catalysts for Methanol Synthesis by the Residual NaNO3 in Hydroxycarbonate Precursors. *Catalysts*, **2020**, 10, 1346	4	0
110	Visible light production of hydrogen from glycerol over Cu2O-gC3N4 nanocomposites with enhanced photocatalytic efficiency. *Journal of Materials Research and Technology*, **2020**, 9, 15335-15345	5.5	7
109	Role of the Sulphur Source in the Solvothermal Synthesis of Ag-CdS Photocatalysts: Effects on the Structure and Photoactivity for Hydrogen Production. *Hydrogen*, **2020**, 1, 64-89	1.8	3
108	Structure and activity of Cu/ZnO catalysts co-modified with aluminium and gallium for methanol synthesis. *Catalysis Today*, **2020**, 355, 870-881	5.3	10
107	Data on TGA of precursors and SEM of reduced Cu/ZnO catalysts co-modified with aluminium and gallium for methanol synthesis. *Data in Brief*, **2019**, 24, 104010	1.2	3
106	Partial Oxidation of Methane to Syngas Over Nickel-Based Catalysts: Influence of Support Type, Addition of Rhodium, and Preparation Method. *Frontiers in Chemistry*, **2019**, 7, 104	5	40
105	Methanol Synthesis from CO: A Review of the Latest Developments in Heterogeneous Catalysis. *Materials*, **2019**, 12,	3.5	68
104	Steam reforming of tar model compounds over Ni/Mayenite catalysts: effect of Ce addition. *Fuel*, **2018**, 224, 676-686	7.1	52
103	Hydrogen production by methane decomposition: A comparative study of supported and bulk ex-hydrotalcite mixed oxide catalysts with Ni, Mg and Al. *International Journal of Hydrogen Energy*, **2018**, 43, 9607-9621	6.7	23
102	Structure and photoactivity for hydrogen production of CdS nanorods modified with In, Ga, Ag-In and Ag-Ga and prepared by solvothermal method. *Materials Today Energy*, **2018**, 9, 345-358	7	8

101	CO Oxidation at 20 °C on Au Catalysts Supported on Mesoporous Silica: Effects of Support Structural Properties and Modifiers. *Materials*, **2018**, 11,	3.5	6
100	Catalytic fast pyrolysis of biomass over Mg-Al mixed oxides derived from hydrotalcite-like precursors: Influence of Mg/Al ratio. *Journal of Analytical and Applied Pyrolysis*, **2018**, 134, 362-370	6	27
99	Highly active Cu/ZnO-Al catalyst for methanol synthesis: effect of aging on its structure and activity.. *RSC Advances*, **2018**, 8, 20619-20629	3.7	24
98	Photocatalytic activity of mont-La (6%)-Cu0.6Cd0.4S catalyst for phenol degradation under near UV visible light irradiation. *Applied Catalysis B: Environmental*, **2017**, 211, 114-125	21.8	37
97	Influence of the Reduction of Graphene Oxide with Hydroiodic Acid on the Structure and Photoactivity of CdS–GO Hybrids. *Topics in Catalysis*, **2017**, 60, 1183-1195	2.3	8
96	Influence of the reduction of graphene oxide (rGO) on the structure and photoactivity of CdS-rGO hybrid systems. *International Journal of Hydrogen Energy*, **2017**, 42, 13691-13703	6.7	21
95	Optimization of nickel loading of mixed oxide catalyst ex -hydrotalcite for H 2 production by methane decomposition. *Applied Catalysis A: General*, **2017**, 548, 71-82	5.1	25
94	Nickel ferrite supported on calcium-stabilized zirconia for solar hydrogen production by two-step thermochemical water splitting. *Materials Today Energy*, **2017**, 6, 248-254	7	5
93	Influence of the solvent on the structure, morphology and performance for H2 evolution of CdS photocatalysts prepared by solvothermal method. *Applied Catalysis B: Environmental*, **2017**, 203, 753-767	21.8	112
92	Improved stability of Ni/Al2O3 catalysts by effect of promoters (La2O3, CeO2) for ethanol steam-reforming reaction. *Catalysis Today*, **2016**, 259, 27-38	5.3	89
91	Effect of Re addition on the WGS activity and stability of Pt/CeO2–TiO2 catalyst for membrane reactor applications. *Catalysis Today*, **2016**, 268, 95-102	5.3	20
90	Hydrogen production by autothermal reforming of methane over lanthanum chromites modified with Ru and Sr. *International Journal of Hydrogen Energy*, **2016**, 41, 19373-19381	6.7	17
89	Evolution of the nanostructure of CdS using solvothermal synthesis at different temperature and its influence on the photoactivity for hydrogen production. *International Journal of Hydrogen Energy*, **2016**, 41, 11558-11567	6.7	31
88	From Nanorods to Nanowires of CdS Synthesized by a Solvothermal Method: Influence of the Morphology on the Photoactivity for Hydrogen Evolution from Water. *Molecules*, **2016**, 21, 401	4.8	17
87	Straightforward High-Pressure Synthesis and Characterization of Indium-Based Thiospinels: Photocatalytic Potential for Hydrogen Production. *European Journal of Inorganic Chemistry*, **2016**, 2016, 1558-1565	2.3	11
86	Rh/Al 2 O 3 –La 2 O 3 catalysts promoted with CeO 2 for ethanol steam reforming reaction. *Journal of Molecular Catalysis A*, **2015**, 407, 169-181		37
85	Ruthenium Effect on Formation Mechanism and Structural Characteristics of LaCo1–xRuxO3 Perovskites and Its Influence on Catalytic Performance for Hydrocarbon Oxidative Reforming. *Journal of Physical Chemistry C*, **2015**, 119, 16708-16723	3.8	6
84	Influence of Ni environment on the reactivity of Ni–Mg–Al catalysts for the acetone steam reforming reaction. *International Journal of Hydrogen Energy*, **2015**, 40, 5289-5296	6.7	25

83	A simple approach to synthesize g-C3N4 with high visible light photoactivity for hydrogen production. *International Journal of Hydrogen Energy*, **2015**, 40, 7273-7281	6.7	42
82	Structure and Activity of Pt-Ni Catalysts Supported on Modified Al2O3 for Ethanol Steam Reforming. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 6592-603	1.3	4
81	Improved ethanol steam reforming on Rh/Al2O3 catalysts doped with CeO2 or/and La2O3: Influence in reaction pathways including coke formation. *Applied Catalysis A: General*, **2015**, 505, 159-172	5.1	43
80	Ni- and PtNi-catalysts supported on Al2O3 for acetone steam reforming: Effect of the modification of support with Ce, La and Mg. *Catalysis Today*, **2015**, 242, 60-70	5.3	48
79	Introduction to hydrogen production **2015**, 21-61		7
78	Design of Highly Efficient Catalyst for Rational Way of Direct Conversion of Methane. *Eurasian Chemico-Technological Journal*, **2015**, 17, 105	0.8	5
77	Methane partial oxidation over a LaCr 0.85 Ru 0.15 O 3 catalyst: Characterization, activity tests and kinetic modeling. *Applied Catalysis A: General*, **2014**, 486, 239-249	5.1	23
76	Controlling the impregnation of nickel on nanoporous aluminum oxide nanoliths as catalysts for partial oxidation of methane. *Chemical Engineering Journal*, **2014**, 256, 458-467	14.7	8
75	Hydrogen production by autothermal reforming of methane: Effect of promoters (Pt, Pd, Re, Mo, Sn) on the performance of Ni/La2O3 catalysts. *Applied Catalysis A: General*, **2014**, 481, 104-115	5.1	36
74	Bimetallic MNi/Al2O3-La catalysts (M=Pt, Cu) for acetone steam reforming: Role of M on catalyst structure and activity. *Applied Catalysis A: General*, **2014**, 474, 168-177	5.1	23
73	Hydrogen production by autothermal reforming of methane over NiPd catalysts: Effect of support composition and preparation mode. *International Journal of Hydrogen Energy*, **2014**, 39, 20992-21006	6.7	40
72	Nature of the Mixed-Oxide Interface in Ceria□Titania Catalysts: Clusters, Chains, and Nanoparticles. *Journal of Physical Chemistry C*, **2013**, 117, 14463-14471	3.8	62
71	Role of Pt in the Activity and Stability of PtNi/CeO2□Al2O3 Catalysts in Ethanol Steam Reforming for H2 Production. *Topics in Catalysis*, **2013**, 56, 1672-1685	2.3	11
70	Renewable Syngas Production via Dry Reforming of Methane. *Green Energy and Technology*, **2013**, 45-66	0.6	3
69	Cd1□ZnxS supported on SBA-16 as photocatalysts for water splitting under visible light: Influence of Zn concentration. *International Journal of Hydrogen Energy*, **2013**, 38, 11799-11810	6.7	19
68	The effect of Pt characteristics on the photoactivity of Pt/TiO2 for hydrogen production from ethanol. *Catalysis Today*, **2013**, 210, 33-38	5.3	24
67	Nanoscale control during synthesis of Me/La2O3, Me/CexGd1□Oy and Me/CexZr1□Oy (Me=Ni, Pt, Pd, Rh) catalysts for autothermal reforming of methane. *Catalysis Today*, **2013**, 210, 10-18	5.3	28
66	Hydrogen Production from Water Splitting Using Photo-Semiconductor Catalysts **2013**, 43-61		7

65	In situ characterization of Pt catalysts supported on ceria modified TiO2 for the WGS reaction: influence of ceria loading. *Physical Chemistry Chemical Physics*, **2012**, 14, 2192-202	3.6	30
64	Cd1−ZnxS solid solutions supported on ordered mesoporous silica (SBA-15): Structural features and photocatalytic activity under visible light. *International Journal of Hydrogen Energy*, **2012**, 37, 9948-9958	6.7	31
63	Comparative study of hydrotalcite-derived supported Pd2Ga and PdZn intermetallic nanoparticles as methanol synthesis and methanol steam reforming catalysts. *Journal of Catalysis*, **2012**, 293, 27-38	7.3	117
62	Exploring the Structural and Electronic Properties of Pt/Ceria-Modified TiO2 and Its Photocatalytic Activity for Water Splitting under Visible Light. *Journal of Physical Chemistry C*, **2012**, 116, 14062-14070	3.8	61
61	Biohydrogen production by gas phase reforming of glycerine and ethanol mixtures. *International Journal of Hydrogen Energy*, **2012**, 37, 2028-2036	6.7	30
60	Effect of ZrO2 addition on Ni/Al2O3 catalyst to produce H2 from glycerol. *International Journal of Hydrogen Energy*, **2012**, 37, 7084-7093	6.7	53
59	Diesel fuel reforming over catalysts derived from LaCo1−RuxO3 perovskites with high Ru loading. *International Journal of Hydrogen Energy*, **2012**, 37, 7056-7066	6.7	21
58	Insights on the role of Ru substitution in the properties of LaCoO3-based oxides as catalysts precursors for the oxidative reforming of diesel fuel. *Applied Catalysis B: Environmental*, **2012**, 113-114, 271-280	21.8	28
57	Perovskites as Catalysts in the Reforming of Hydrocarbons: A Review. *Micro and Nanosystems*, **2012**, 4, 231-252	0.6	13
56	Effects of Reaction Temperature and Support Composition on the Mechanism of Water−Gas Shift Reaction over Supported-Pt Catalysts. *Journal of Physical Chemistry C*, **2011**, 115, 11595-11610	3.8	82
55	Hydrogen Production from Renewables **2011**,		1
54	Hydrogen production by reforming of diesel fuel over catalysts derived from LaCo1−RuxO3 perovskites: Effect of the partial substitution of Co by Ru (x=0.01−0.1). *Journal of Power Sources*, **2011**, 196, 9087-9095	8.9	22
53	Catalysts for Hydrogen Production from Heavy Hydrocarbons. *ChemCatChem*, **2011**, 3, 440-457	5.2	43
52	Oxidative reforming of diesel fuel over LaCoO3 perovskite derived catalysts: Influence of perovskite synthesis method on catalyst properties and performance. *Applied Catalysis B: Environmental*, **2011**, 105, 276-288	21.8	81
51	Direct methane conversion routes to chemicals and fuels. *Catalysis Today*, **2011**, 171, 15-23	5.3	224
50	Surface reactivity of LaCoO3 and Ru/LaCoO3 towards CO, CO2 and C3H8: Effect of H2 and O2 pretreatments. *Applied Catalysis B: Environmental*, **2011**, 102, 291-301	21.8	20
49	Hydrogen production by oxidative ethanol reforming on Co, Ni and Cu ex-hydrotalcite catalysts. *International Journal of Hydrogen Energy*, **2011**, 36, 1512-1523	6.7	76
48	Glycerol liquid phase conversion over monometallic and bimetallic catalysts: Effect of metal, support type and reaction temperatures. *Applied Catalysis B: Environmental*, **2011**, 106, 83-83	21.8	24

47	Effect of the Partial Substitution of Fe by Ni on the Structure and Activity of Nanocrystalline NixFe3□O4 Ferrites for Hydrogen Production by Two-Step Water-Splitting. *Nanoscience and Nanotechnology Letters*, **2011**, 3, 705-716	0.8	7
46	Biogas as a source of renewable syngas production: advances and challenges. *Biofuels*, **2011**, 2, 325-343	2	27
45	Glycerol conversion into H2 by steam reforming over Ni and PtNi catalysts supported on MgO modified □Al2O3. *Studies in Surface Science and Catalysis*, **2010**, 175, 449-452	1.8	7
44	Mechanistic aspects of the ethanol steam reforming reaction for hydrogen production on Pt, Ni, and PtNi catalysts supported on gamma-Al2O3. *Journal of Physical Chemistry A*, **2010**, 114, 3873-82	2.8	94
43	A framework for visible-light water splitting. *Energy and Environmental Science*, **2010**, 3, 1865	35.4	168
42	Photocatalytic Hydrogen Production on Cd1□ZnxS Solid Solutions under Visible Light: Influence of Thermal Treatment. *Industrial & Engineering Chemistry Research*, **2010**, 49, 6854-6861	3.9	45
41	Glycerol steam reforming over Ni catalysts supported on ceria and ceria-promoted alumina. *International Journal of Hydrogen Energy*, **2010**, 35, 11622-11633	6.7	172
40	A comparative study of the water gas shift reaction over platinum catalysts supported on CeO2, TiO2 and Ce-modified TiO2. *Catalysis Today*, **2010**, 149, 372-379	5.3	112
39	Water splitting on semiconductor catalysts under visible-light irradiation. *ChemSusChem*, **2009**, 2, 471-85	8.3	444
38	Reforming of Diesel Fuel for Hydrogen Production over Catalysts Derived from LaCo1□ M x O3 (M = Ru, Fe). *Topics in Catalysis*, **2009**, 52, 1995-2000	2.3	16
37	Hydrodesulfurization of dibenzothiophene and a SRGO on sulfide Ni(Co)Mo/Al2O3 catalysts. Effect of Ru and Pd promotion. *Catalysis Today*, **2009**, 143, 108-114	5.3	27
36	Influence of Zn concentration in the activity of Cd1□ZnxS solid solutions for water splitting under visible light. *Catalysis Today*, **2009**, 143, 51-56	5.3	98
35	Role of the Ru and Support in Sulfided RuNiMo Catalysts in Simultaneous Hydrodearomatization (HDA), Hydrodesulfurization (HDS), and Hydrodenitrogenation (HDN) Reactions. *Energy & Fuels* , **2009**, 23, 1364-1372	4.1	15
34	Photocatalytic Water Splitting Under Visible Light. *Advances in Chemical Engineering*, **2009**, 36, 111-143	0.6	64
33	Influence of La2O3 modified support and Ni and Pt active phases on glycerol steam reforming to produce hydrogen. *Catalysis Communications*, **2009**, 10, 1275-1278	3.2	115
32	Hydrogen production from renewable sources: biomass and photocatalytic opportunities. *Energy and Environmental Science*, **2009**, 2, 35-54	35.4	321
31	Performance enhancement in the water□gas shift reaction of platinum deposited over a cerium-modified TiO2 support. *Catalysis Communications*, **2008**, 9, 1759-1765	3.2	40
30	Hydrogen Production from Glycerol Over Nickel Catalysts Supported on Al2O3 Modified by Mg, Zr, Ce or La. *Topics in Catalysis*, **2008**, 49, 46-58	2.3	206

29	Zirconia-supported LaCoO3 catalysts for hydrogen production by oxidative reforming of diesel: Optimization of preparation conditions. *Catalysis Today*, **2008**, 138, 135-140	5.3	20
28	Hydrogen production for fuel cell by oxidative reforming of diesel surrogate: Influence of ceria and/or lanthana over the activity of Pt/Al2O3 catalysts. *Fuel*, **2008**, 87, 2502-2511	7.1	43
27	Performance of La,Ce-modified alumina-supported Pt and Ni catalysts for the oxidative reforming of diesel hydrocarbons. *International Journal of Hydrogen Energy*, **2008**, 33, 652-663	6.7	82
26	Photocatalytic hydrogen evolution from CdS□ZnO□CdO systems under visible light irradiation: Effect of thermal treatment and presence of Pt and Ru cocatalysts. *International Journal of Hydrogen Energy*, **2008**, 33, 4265-4273	6.7	125
25	Hydrogen production reactions from carbon feedstocks: fossil fuels and biomass. *Chemical Reviews*, **2007**, 107, 3952-91	68.1	922
24	Ethanol steam reforming over Ni/La□Al2O3 catalysts: Influence of lanthanum loading. *Catalysis Today*, **2007**, 129, 336-345	5.3	155
23	Ethanol steam reforming over Ni/MxOyNi/MxOy□Al2O3Al2O3 (M=CeM=Ce, La, Zr and Mg) catalysts: Influence of support on the hydrogen production. *International Journal of Hydrogen Energy*, **2007**, 32, 1462-1471	6.7	359
22	Effect of Ru on LaCoO3 perovskite-derived catalyst properties tested in oxidative reforming of diesel. *Applied Catalysis B: Environmental*, **2007**, 73, 247-258	21.8	72
21	Diesel fuel processor for hydrogen production for 5 kW fuel cell application. *International Journal of Hydrogen Energy*, **2007**, 32, 1429-1436	6.7	31
20	Design of a diesel reformer coupled to a PEMFC. *Catalysis Today*, **2006**, 116, 324-333	5.3	15
19	On the origin of the high performance of MWNT-supported PtPd catalysts for the hydrogenation of aromatics. *Carbon*, **2006**, 44, 84-98	10.4	88
18	Hydrogen production by oxidative reforming of hexadecane over Ni and Pt catalysts supported on Ce/La-doped Al2O3. *Applied Catalysis A: General*, **2006**, 297, 60-72	5.1	102
17	Removal of PAH compounds from liquid fuels by Pd catalysts. *Environmental Science & Technology*, **2005**, 39, 3374-81	10.3	25
16	Production of hydrogen by oxidative reforming of ethanol over Pt catalysts supported on Al2O3 modified with Ce and La. *Applied Catalysis B: Environmental*, **2005**, 55, 229-241	21.8	110
15	Production of hydrogen by partial oxidation of methanol over carbon-supported copper catalysts. *Topics in Catalysis*, **2004**, 30/31, 481-486	2.3	10
14	Deep aromatics hydrogenation in the presence of DBT over Au□Pd/□alumina catalysts. *Applied Catalysis A: General*, **2004**, 275, 127-139	5.1	42
13	Competitive effects of nitrogen and sulfur content on activity of hydrotreating CoMo/Al2O3 catalysts: a batch reactor study. *Catalysis Today*, **2004**, 98, 67-74	5.3	46
12	Simultaneous 1-pentene hydroisomerisation and thiophene hydrodesulphurisation over sulphided Ni/FAU and Ni/ZSM-5 catalysts. *Applied Catalysis A: General*, **2004**, 262, 155-166	5.1	46

11	Production of hydrogen from methanol over Cu/ZnO catalysts promoted by ZrO2 and Al2O3. *Journal of Catalysis*, **2003**, 219, 389-403	7.3	315
10	Silica–alumina-supported transition metal sulphide catalysts for deep hydrodesulphurization. *Catalysis Today*, **2003**, 86, 73-85	5.3	31
9	Hydrogenation of aromatics over supported Pt-Pd catalysts. *Applied Catalysis A: General*, **2002**, 225, 223-237	3.1	120
8	Production of Hydrogen by Partial Oxidation of Methanol over a Cu/ZnO/Al2O3 Catalyst: Influence of the Initial State of the Catalyst on the Start-Up Behaviour of the Reformer. *Journal of Catalysis*, **2002**, 212, 112-118	7.3	37
7	Oxidative Methanol Reforming Reactions on CuZnAl Catalysts Derived from Hydrotalcite-like Precursors. *Journal of Catalysis*, **2001**, 198, 338-347	7.3	141
6	Factors affecting Ni-sulfide formation in Y-type zeolites: a combined Fourier transform infrared and X-ray photoelectron spectroscopy study. *Microporous and Mesoporous Materials*, **2000**, 34, 181-194	5.3	26
5	Methyl-naphthalene hydrogenation on Pt/HY–Al2O3 catalysts. An approach to hydrogenation of polyaromatic hydrocarbon mixtures. *Fuel Processing Technology*, **2000**, 64, 117-133	7.2	9
4	Hydrogenation of Aromatics on Sulfur-Resistant PtPd Bimetallic Catalysts. *Journal of Catalysis*, **2000**, 189, 184-194	7.3	185
3	Dibenzothiophene hydrodesulfurization on HY-zeolite-supported transition metal sulfide catalysts. *Fuel Processing Technology*, **1999**, 61, 73-88	7.2	35
2	Deep hydrodesulfurization of DBT and diesel fuel on supported Pt and Ir catalysts. *Applied Catalysis A: General*, **1996**, 137, 269-286	5.1	42
1	Dibenzothiophene hydrodesulfurization on silica-alumina-supported transition metal sulfide catalysts. *Applied Catalysis A: General*, **1996**, 148, 23-40	5.1	39