Jordi Llorca

List of Publications by Year
in descending order

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439	19,370	12303	22764
papers	citations	69 h-index	112 g-index

454	454	454	17760
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The effect of gold loading and particle size on photocatalytic hydrogen production from ethanol over Au/TiO2 nanoparticles. Nature Chemistry, 2011, 3, 489-492.	6.6	1,090
2	Ceria Catalysts at Nanoscale: How Do Crystal Shapes Shape Catalysis?. ACS Catalysis, 2017, 7, 4716-4735.	5.5	526
3	Efficient Production of Hydrogen over Supported Cobalt Catalysts from Ethanol Steam Reforming. Journal of Catalysis, 2002, 209, 306-317.	3.1	506
4	Shape-Dependent Activity of Ceria in Soot Combustion. ACS Catalysis, 2014, 4, 172-181.	5.5	377
5	Nanophase Fluorite-Structured CeO2â€“ZrO2Catalysts Prepared by High-Energy Mechanical Milling. Journal of Catalysis, 1997, 169, 490-502.	3.1	374
6	Nanofaceted Pdï£¿O Sites in Pdï£¿Ce Surface Superstructures: Enhanced Activity in Catalytic Combustion of Methane. Angewandte Chemie - International Edition, 2009, 48, 8481-8484.	7.2	256
7	Surface-structure sensitivity of CO oxidation over polycrystalline ceria powders. Journal of Catalysis, 2005, 234, 88-95.	3.1	252
8	CO-free hydrogen from steam-reforming of bioethanol over ZnO-supported cobalt catalysts. Applied Catalysis B: Environmental, 2003, 43, 355-369.	10.8	248
9	The Synthesis and Characterization of Mesoporous High-Surface Area Ceria Prepared Using a Hybrid Organic/Inorganic Route. Journal of Catalysis, 1998, 178, 299-308.	3.1	227
10	CO and CO2 methanation over Ni catalysts supported on CeO2, Al2O3 and Y2O3 oxides. Applied Catalysis B: Environmental, 2020, 264, 118494.	10.8	208
11	Effect of sodium addition on the performance of Coâ€“ZnO-based catalysts for hydrogen production from bioethanol. Journal of Catalysis, 2004, 222, 470-480.	3.1	197
12	Influence of the support on surface rearrangements of bimetallic nanoparticles in real catalysts. Science, 2014, 346, 620-623.	6.0	188
13	Surface Faceting and Reconstruction of Ceria Nanoparticles. Angewandte Chemie - International Edition, 2017, 56, 375-379.	7.2	185
14	In situ DRIFT-mass spectrometry study of the ethanol steam-reforming reaction over carbonyl-derived Co/ZnO catalysts. Journal of Catalysis, 2004, 227, 556-560.	3.1	172
15	Soot combustion over silver-supported catalysts. Applied Catalysis B: Environmental, 2009, 91, 489-498.	10.8	161
16	Direct production of hydrogen from ethanolic aqueous solutions over oxide catalysts. Chemical Communications, 2001, , 641-642.	2.2	160
17	Review of the Decomposition of Ammonia to Generate Hydrogen. Industrial & Engineering Chemistry Research, 2021, 60, 18560-18611.	1.8	159
18	The effect of doping CeO2 with zirconium in the oxidation of isobutane. Applied Catalysis A: General, 1996, 139, 161-173.	2.2	155

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19	NiSn bimetallic nanoparticles as stable electrocatalysts for methanol oxidation reaction. Applied Catalysis B: Environmental, 2018, 234, 10-18.	10.8	142
20	In situ studies of CeO2-supported Pt, Ru, and Ptâ€“Ru alloy catalysts for the waterâ€“gas shift reaction: Active phases and reaction intermediates. Journal of Catalysis, 2012, 291, 117-126.	3.1	133
21	Low-temperature steam-reforming of ethanol over ZnO-supported Ni and Cu catalysts. Catalysis Today, 2006, 116, 361-366.	2.2	132
22	In situ magnetic characterisation of supported cobalt catalysts under steam-reforming of ethanol. Applied Catalysis A: General, 2003, 243, 261-269.	2.2	131
23	In Situ Electrochemical Oxidation of Cu‹sub›2‹/sub›S into CuO Nanowires as a Durable and Efficient Electrocatalyst for Oxygen Evolution Reaction. Chemistry of Materials, 2019, 31, 7732-7743.	3.2	131
24	Synthesis of Several Isomeric Tetrathiafulvalene .pi.-Electron Donors with Peripheral Sulfur Atoms. A Study of Their Radical Cations. Journal of Organic Chemistry, 1994, 59, 3307-3313.	1.7	129
25	Tubular CoFeP@CN as a Mottâ€“Schottky Catalyst with Multiple Adsorption Sites for Robust Lithiumâ^'Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2100432.	10.2	125
26	Propene epoxidation over TiO2-supported Auâ€“Cu alloy catalysts prepared from thiol-capped nanoparticles. Journal of Catalysis, 2008, 258, 187-198.	3.1	124
27	Catalytic ammonia decomposition for hydrogen production on Ni, Ru and Ni Ru supported on CeO2. International Journal of Hydrogen Energy, 2019, 44, 12693-12707.	3.8	121
28	Transformation of Co3O4during Ethanol Steam-Re-forming. Activation Process for Hydrogen Production. Chemistry of Materials, 2004, 16, 3573-3578.	3.2	120
29	Outstanding Methane Oxidation Performance of Palladiumâ€Embedded Ceria Catalysts Prepared by a Oneâ€Step Dry Ballâ€Milling Method. Angewandte Chemie - International Edition, 2018, 57, 10212-10216.	7.2	117
30	ZnSe/N-Doped Carbon Nanoreactor with Multiple Adsorption Sites for Stable Lithiumâ€“Sulfur Batteries. ACS Nano, 2020, 14, 15492-15504.	7.3	114
31	Chemical abundances determined from meteor spectra: I. Ratios of the main chemical elements. Meteoritics and Planetary Science, 2003, 38, 1283-1294.	0.7	111
32	Supported Ptâ€“Sn catalysts highly selective for isobutane dehydrogenation: preparation, characterization and catalytic behavior. Applied Catalysis A: General, 1999, 189, 77-86.	2.2	110
33	Structure and morphology of Pd/Al2O3 and Pd/CeO2/Al2O3 combustion catalysts in Pdâ€“PdO transformation hysteresis. Applied Catalysis A: General, 2010, 390, 1-10.	2.2	110
34	Steam reforming of ethanol at moderate temperature: Multifactorial design analysis of Ni/La2O3-Al2O3, and Fe- and Mn-promoted Co/ZnO catalysts. Journal of Power Sources, 2007, 169, 158-166.	4.0	103
35	Ethanol steam reforming and water gas shift over Co/ZnO catalytic honeycombs doped with Fe, Ni, Cu, Cr and Na. International Journal of Hydrogen Energy, 2010, 35, 7690-7698.	3.8	103
36	Hydrogen production by Tuning the Photonic Band Gap with the Electronic Band Gap of TiO2. Scientific Reports, 2013, 3, 2849.	1.6	102

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37	Relationships between Structural/Morphological Modifications and Oxygen Storageâ€“Redox Behavior of Silica-Doped Ceria. Journal of Catalysis, 2000, 194, 461-478.	3.1	101
38	Microcalorimetric and Infrared Studies of Ethanol and Acetaldehyde Adsorption to Investigate the Ethanol Steam Reforming on Supported Cobalt Catalysts. Journal of Physical Chemistry B, 2005, 109, 10813-10819.	1.2	101
39	Fast and efficient hydrogen generation catalyzed by cobalt talc nanolayers dispersed in silica aerogel. Journal of Materials Chemistry, 2010, 20, 4875.	6.7	101
40	Performance comparison of Ni/TiO2 and Au/TiO2 photocatalysts for H2 production in different alcohol-water mixtures. Journal of Catalysis, 2018, 367, 27-42.	3.1	97
41	Unusual Oxygen Storage/Redox Behavior of High-Surface-Area Ceria Prepared by a Surfactant-Assisted Route. Chemistry of Materials, 1997, 9, 2676-2678.	3.2	96
42	The strength of cometary meteoroids: clues to the structure and evolution of comets. Monthly Notices of the Royal Astronomical Society, 2006, 372, 655-660.	1.6	96
43	Conversion of glycerol over 10%Ni/Î³-Al2O3 catalyst. Applied Catalysis B: Environmental, 2014, 147, 464-480.	10.8	94
44	A novel and simple route to catalysts with a high oxygen storage capacity: the direct room-temperature synthesis of CeO2â€“ZrO2solid solutions. Journal of the Chemical Society Chemical Communications, 1995, , 2181-2182.	2.0	93
45	Recent Advances in the Catalytic Production of Platform Chemicals from Holocellulosic Biomass. ChemCatChem, 2019, 11, 2022-2042.	1.8	92
46	Atomically dispersed Fe in a C₂N Based Catalyst as a Sulfur Host for Efficient Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2003507.	10.2	91
47	NbSe₂ Meets C₂N: A 2Dâ€2D Heterostructure Catalysts as Multifunctional Polysulfide Mediator in Ultraâ€Longâ€Life Lithiumâ€“Sulfur Batteries. Advanced Energy Materials, 2021, 11, 2101250.	10.2	89
48	Propene epoxidation by nitrous oxide over Auâ€“Cu/TiO2 alloy catalysts. Journal of Molecular Catalysis A, 2007, 274, 159-168.	4.8	87
49	Photoreaction of ethanol on Au/TiO2 anatase: Comparing the micro to nanoparticle size activities of the support for hydrogen production. Journal of Photochemistry and Photobiology A: Chemistry, 2010, 216, 250-255.	2.0	87
50	A High Conductivity 1D Ï€â€“d Conjugated Metalâ€“Organic Framework with Efficient Polysulfide Trappingâ€Diffusionâ€Catalysis in Lithiumâ€“Sulfur Batteries. Advanced Materials, 2022, 34, e2108835.	11.1	86
51	A Phenomenological Study of the Metalâ€“Oxide Interface: The Role of Catalysis in Hydrogen Production from Renewable Resources. ChemSusChem, 2008, 1, 905-910.	3.6	85
52	Colloidal Niâ€“Coâ€“Sn nanoparticles as efficient electrocatalysts for the methanol oxidation reaction. Journal of Materials Chemistry A, 2018, 6, 22915-22924.	5.2	85
53	Selective Methanolâ€toâ€Formate Electrocatalytic Conversion on Branched Nickel Carbide. Angewandte Chemie - International Edition, 2020, 59, 20826-20830.	7.2	83
54	Remarkable Carbon Dioxide Hydrogenation to Ethanol on a Palladium/Iron Oxide Singleâ€Atom Catalyst. ChemCatChem, 2018, 10, 2365-2369.	1.8	82

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55	The effect of CeO2 on the dynamics of Pdâ€“PdO transformation over Pd/Al2O3 combustion catalysts. Catalysis Communications, 2007, 8, 1263-1266.	1.6	81
56	Bimetallic Silica-Supported Catalysts Based on Niâˆ’Sn, Pdâˆ’Sn, and Ptâˆ’Sn as Materials in the CO Oxidation Reaction. Chemistry of Materials, 1998, 10, 1333-1342.	3.2	80
57	In Situ Elucidation of the Active State of Coâ€“CeO_x Catalysts in the Dry Reforming of Methane: The Important Role of the Reducible Oxide Support and Interactions with Cobalt. ACS Catalysis, 2018, 8, 3550-3560.	5.5	80
58	Cobalt hydrotalcites as catalysts for bioethanol steam reforming. The promoting effect of potassium on catalyst activity and long-term stability. Applied Catalysis B: Environmental, 2012, 127, 59-67.	10.8	77
59	Methanol steam reforming behavior of copper impregnated over CeO 2 â€“ZrO 2 derived from aÂsurfactant assisted coprecipitation route. International Journal of Hydrogen Energy, 2015, 40, 10463-10479.	3.8	77
60	Defect-induced strategies for the creation of highly active hydrotalcites in base-catalyzed reactions. Journal of Catalysis, 2007, 252, 249-257.	3.1	76
61	Autothermal generation of hydrogen from ethanol in a microreactor. International Journal of Hydrogen Energy, 2008, 33, 1827-1833.	3.8	76
62	Higher activity of Diesel soot oxidation over polycrystalline ceria and ceriaâ€“zirconia solid solutions from more reactive surface planes. Catalysis Today, 2012, 197, 119-126.	2.2	76
63	CO oxidation and COPrOx over preformed Au nanoparticles supported over nanoshaped CeO2. Applied Catalysis B: Environmental, 2016, 197, 47-55.	10.8	76
64	Graphene-supported palladium phosphide PdP2 nanocrystals for ethanol electrooxidation. Applied Catalysis B: Environmental, 2019, 242, 258-266.	10.8	76
65	Detection of sporadic impact flashes on the Moon: Implications for the luminous efficiency of hypervelocity impacts and derived terrestrial impact rates. Icarus, 2006, 184, 319-326.	1.1	74
66	First use of macroporous silicon loaded with catalyst film for a chemical reaction: A microreformer for producing hydrogen from ethanol steam reforming. Journal of Catalysis, 2008, 255, 228-233.	3.1	74
67	A luminescent hydrogel based on a new Au(<scp>i</scp>) complex. Chemical Communications, 2013, 49, 72-74.	2.2	73
68	Mn₃O₄@CoMn₂O₄â€“Co_xO_yNanoparticle Partial Cation Exchange Synthesis and Electrocatalytic Properties toward the Oxygen Reduction and Evolution Reactions. ACS Applied Materials & Interfaces, 2016, 8, 17435-17444.	4.0	72
69	Room temperature oxidation of formaldehyde on Pt-based catalysts: A comparison between ceria and other supports (TiO2, Al2O3 and ZrO2). Catalysis Today, 2015, 253, 163-171.	2.2	71
70	Visible Light-Driven H₂ Production over Highly Dispersed Ruthenia on Rutile TiO₂ Nanorods. ACS Catalysis, 2016, 6, 407-417.	5.5	71
71	Dynamic photocatalytic hydrogen production from ethanolâ€“water mixtures in an optical fiber honeycomb reactor loaded with Au/TiO2. Journal of Catalysis, 2014, 309, 460-467.	3.1	70
72	Catalytic monoliths for ethanol steam reforming. Catalysis Today, 2008, 138, 187-192.	2.2	69

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73	Bulbous tracks arising from hypervelocity capture in aerogel. Meteoritics and Planetary Science, 2008, 43, 75-86.	0.7	69
74	Enhanced photocatalytic degradation of methylene blue: Preparation of TiO2/reduced graphene oxide nanocomposites by direct sol-gel and hydrothermal methods. Materials Research Bulletin, 2017, 95, 578-587.	2.7	68
75	Boosted selectivity toward high glycerol tertiary butyl ethers by microwave-assisted sulfonic acid-functionalization of SBA-15 and beta zeolite. Journal of Catalysis, 2012, 290, 202-209.	3.1	67
76	Computational fluid dynamics simulation of ethanol steam reforming in catalytic wall microchannels. Chemical Engineering Journal, 2011, 167, 603-609.	6.6	66
77	Magnetite-supported palladium single-atoms do not catalyse the hydrogenation of alkenes but small clusters do. Catalysis Science and Technology, 2016, 6, 4081-4085.	2.1	66
78	Catalytic ammonia decomposition over Ni-Ru supported on CeO2 for hydrogen production: Effect of metal loading and kinetic analysis. Applied Catalysis B: Environmental, 2021, 286, 119896.	10.8	66
79	Ethanol reforming processes over ZnO-supported palladium catalysts: Effect of alloy formation. Journal of Molecular Catalysis A, 2006, 250, 44-49.	4.8	65
80	Improved high temperature stability of NH3-SCR catalysts based on rare earth vanadates supported on TiO2WO3SiO2. Catalysis Today, 2012, 184, 227-236.	2.2	65
81	Origin of High Activity and Selectivity of CuO/CeO₂ Catalysts Prepared by Solution Combustion Synthesis in CO-PROX Reaction. Journal of Physical Chemistry C, 2016, 120, 13039-13048.	1.5	65
82	Pd₂Sn [010] nanorods as a highly active and stable ethanol oxidation catalyst. Journal of Materials Chemistry A, 2016, 4, 16706-16713.	5.2	65
83	Unraveling the Chemical State of Cobalt in Co-Based Catalysts during Ethanol Steam Reforming: an in Situ Study by Near Ambient Pressure XPS and XANES. ACS Catalysis, 2018, 8, 9625-9636.	5.5	64
84	Selective hydrodeoxygenation of biomass derived 5-hydroxymethylfurfural over silica supported iridium catalysts. Applied Catalysis B: Environmental, 2019, 241, 270-283.	10.8	64
85	Photocatalyzed Hydrogen Evolution from Water by a Composite Catalyst of NH₂â€MILâ€125(Ti) and Surface Nickel(II) Species. Chemistry - A European Journal, 2016, 22, 13894-13899.	1.7	62
86	Stability of Pd₃Pb Nanocubes during Electrocatalytic Ethanol Oxidation. Chemistry of Materials, 2020, 32, 2044-2052.	3.2	62
87	Influence of Pt particle size and reaction phase on the photocatalytic performances of ultradispersed Pt/TiO2 catalysts for hydrogen evolution. Journal of Catalysis, 2019, 375, 155-163.	3.1	61
88	Methane oxidation activity and nanoscale characterization of Pd/CeO2 catalysts prepared by dry milling Pd acetate and ceria. Applied Catalysis B: Environmental, 2021, 282, 119567.	10.8	61
89	Hydrodechlorination of trichloroethylene on noble metal promoted Cu-hydrotalcite-derived catalysts. Journal of Catalysis, 2009, 263, 239-246.	3.1	59
90	An efficient and reusable catalyst based on Pd/CeO2 for the room temperature aerobic Suzukiâ€“Miyaura reaction in water/ethanol. Journal of Molecular Catalysis A, 2010, 315, 197-204.	4.8	59

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91	Bio-ethanol steam reforming and autothermal reforming in 3-Î¼m channels coated with RhPd/CeO2 for hydrogen generation. Chemical Engineering and Processing: Process Intensification, 2013, 64, 31-37.	1.8	59
92	Platinumâ€“Tin Catalysts Supported on Silica Highly Selective forn-Hexane Dehydrogenation. Journal of Catalysis, 1997, 166, 44-52.	3.1	58
93	The Villalbeto de la PeÃ±a meteorite fall: I. Fireball energy, meteorite recovery, strewn field, and petrography. Meteoritics and Planetary Science, 2005, 40, 795-804.	0.7	58
94	Ethanol steam reforming for hydrogen generation over structured catalysts. International Journal of Hydrogen Energy, 2013, 38, 4418-4428.	3.8	58
95	A comparative study of water gas shift reaction over gold and platinum supported on ZrO2 and CeO2â€“ZrO2. Applied Catalysis B: Environmental, 2009, 88, 272-282.	10.8	57
96	Colloidal Ni_{2â^'x}Co_xP nanocrystals for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2018, 6, 11453-11462.	5.2	57
97	Solution-Processed Ultrathin SnS₂â€“Pt Nanoplates for Photoelectrochemical Water Oxidation. ACS Applied Materials & Interfaces, 2019, 11, 6918-6926.	4.0	57
98	Structural and Morphological Investigation of Ceria-Promoted Al2O3under Severe Reducing/Oxidizing Conditions. Journal of Physical Chemistry B, 2005, 109, 11110-11118.	1.2	56
99	Three-dimensional ruthenium-doped TiO₂ sea urchins for enhanced visible-light-responsive H₂ production. Physical Chemistry Chemical Physics, 2016, 18, 15972-15979.	1.3	56
100	SnP nanocrystals as anode materials for Na-ion batteries. Journal of Materials Chemistry A, 2018, 6, 10958-10966.	5.2	56
101	Crotonaldehyde hydrogenation over alumina- and silica-supported Ptâ€“Sn catalysts of different composition. In situ DRIFT study. Physical Chemistry Chemical Physics, 2000, 2, 3063-3069.	1.3	54
102	Ambient Pressure Photoemission Spectroscopy Reveals the Mechanism of Carbon Soot Oxidation in Ceriaâ€Based Catalysts. ChemCatChem, 2016, 8, 2748-2751.	1.8	54
103	Catalytic walls and micro-devices for generating hydrogen by low temperature steam reforming of ethanol. Catalysis Today, 2009, 143, 32-37.	2.2	53
104	Cobalt hydrotalcite for the steam reforming of ethanol with scarce carbon production. RSC Advances, 2012, 2, 2946.	1.7	52
105	Study of Ptâ€“CeO2 interaction and the effect in the selective hydrodechlorination of trichloroethylene. Applied Catalysis B: Environmental, 2009, 87, 84-91.	10.8	51
106	Compositionally tuned NixSn alloys as anode materials for lithium-ion and sodium-ion batteries with a high pseudocapacitive contribution. Electrochimica Acta, 2019, 304, 246-254.	2.6	51
107	Effect of Ni particle size on the production of renewable methane from CO2 over Ni/CeO2 catalyst. Journal of Energy Chemistry, 2021, 61, 602-611.	7.1	51
108	Phase Engineering of Defective Copper Selenide toward Robust Lithiumâ€“Sulfur Batteries. ACS Nano, 2022, 16, 11102-11114.	7.3	50

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109	Influence of Metallic Precursors on the Preparation of Silica-Supported Ptsn Alloy: Characterization and Reactivity in the Catalytic Activation of CO2. Journal of Catalysis, 1995, 156, 139-146.	3.1	49
110	Ceriaâ€“Zirconia Particles Wrapped in a 2D Carbon Envelope: Improved Lowâ€Temperature Oxygen Transfer and Oxidation Activity. Angewandte Chemie - International Edition, 2015, 54, 14040-14043.	7.2	49
111	Influence of copper on nickel-based catalysts in the conversion of glycerol. Applied Catalysis B: Environmental, 2015, 166-167, 166-180.	10.8	49
112	The Villalbeto de la PeÃ±a meteorite fall: II. Determination of atmospheric trajectory and orbit. Meteoritics and Planetary Science, 2006, 41, 505-517.	0.7	48
113	3D printed microstructured Au/TiO2 catalyst for hydrogen photoproduction. Applied Materials Today, 2019, 16, 265-272.	2.3	48
114	Techno-economic and exergy analysis of polygeneration plant for power and DME production with the integration of chemical looping CO2/H2O splitting. Energy Conversion and Management, 2019, 186, 200-219.	4.4	48
115	Phosphorous incorporation in Pd2Sn alloys for electrocatalytic ethanol oxidation. Nano Energy, 2020, 77, 105116.	8.2	48
116	Sulfonic acid-functionalized aerogels as high resistant to deactivation catalysts for the etherification of glycerol with isobutene. Applied Catalysis B: Environmental, 2013, 136-137, 287-293.	10.8	47
117	Combustion synthesized copper-ion substituted FeAl2O4 (Cu0.1Fe0.9Al2O4): A superior catalyst for methanol steam reforming compared to its impregnated analogue. Journal of Power Sources, 2016, 304, 319-331.	4.0	47
118	Chemical abundances determined from meteor spectra - II. Evidence for enlarged sodium abundances in meteoroids. Monthly Notices of the Royal Astronomical Society, 2004, 348, 802-810.	1.6	46
119	PdCu alloy nanoparticles on alumina as selective catalysts for trichloroethylene hydrodechlorination to ethylene. Applied Catalysis A: General, 2013, 453, 130-141.	2.2	46
120	Pd₂Au₃₆(SR)₂₄cluster: structure studies. Nanoscale, 2015, 7, 17012-17019.	2.8	46
121	Influence of acidâ€“base properties of calcined MgAl and CaAl layered double hydroxides on the catalytic glycerol etherification to short-chain polyglycerols. Chemical Engineering Journal, 2015, 264, 547-556.	6.6	46
122	Mixed ironâ€“erbium vanadate NH3-SCR catalysts. Catalysis Today, 2015, 241, 159-168.	2.2	46
123	Ammonia decomposition over 3D-printed CeO2 structures loaded with Ni. Applied Catalysis A: General, 2020, 591, 117382.	2.2	46
124	Monodisperse CoSn and NiSn Nanoparticles Supported on Commercial Carbon as Anode for Lithium- and Potassium-Ion Batteries. ACS Applied Materials & Interfaces, 2020, 12, 4414-4422.	4.0	46
125	The formation of nanodomains of Ce6O11 in ceria catalyzed soot combustion. Journal of Catalysis, 2014, 312, 191-194.	3.1	45
126	Facing Seawater Splitting Challenges by Regeneration with Niâ^'Moâ^'Fe Bifunctional Electrocatalyst for Hydrogen and Oxygen Evolution. ChemSusChem, 2021, 14, 2872-2881.	3.6	45

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127	The influence of nano-architectured CeO supports in RhPd/CeO2 for the catalytic ethanol steam reforming reaction. Catalysis Today, 2015, 253, 99-105.	2.2	44
128	Treatment of saline produced water through photocatalysis using rGO-TiO2 nanocomposites. Catalysis Today, 2018, 315, 194-204.	2.2	44
129	Ligand Migration from Cluster to Support: A Crucial Factor for Catalysis by Thiolateâ€protected Gold Clusters. ChemCatChem, 2018, 10, 5372-5376.	1.8	44
130	The solid-state rearrangement of the Wells-Dawson K6P2W18O62ï¿½10H2O to a stable Keggin-type heteropolyanion phase: a catalyst for the selective oxidation of isobutane to isobutene. Catalysis Letters, 1996, 36, 75-79.	1.4	43
131	Support effect on the formation of the well-defined PtSn alloy from a Ptî—¸Sn bimetallic complex. Catalytic properties in the activation of CO2. Journal of Molecular Catalysis A, 1997, 118, 101-111.	4.8	43
132	Reduction and Oxygen Storage Behavior of Noble Metals Supported on Silica-Doped Ceria. Journal of Catalysis, 2002, 211, 407-421.	3.1	43
133	Nature and location of cerium in Ce-loaded Y zeolites as revealed by HRTEM and spectroscopic techniques. Microporous and Mesoporous Materials, 2007, 100, 276-286.	2.2	43
134	Ethanol steam reforming and water gas shift reaction over Coâ€“Mn/ZnO catalysts. Chemical Engineering Journal, 2009, 154, 267-273.	6.6	43
135	Enhanced Cu activity in catalytic ozonation of clofibric acid by incorporation into ammonium dawsonite. Applied Catalysis B: Environmental, 2011, 107, 9-17.	10.8	43
136	Hydrogen production from ethanol over Pdâ€“Rh/CeO2 with a metallic membrane reactor. Catalysis Today, 2012, 193, 145-150.	2.2	43
137	Microwave-assisted synthesis of sulfonic acid-functionalized microporous materials for the catalytic etherification of glycerol with isobutene. Green Chemistry, 2013, 15, 2230.	4.6	43
138	Plasma surface modification of polymers for sensor applications. Journal of Materials Chemistry B, 2018, 6, 6515-6533.	2.9	43
139	Ceria-Based Catalysts Studied by Near Ambient Pressure X-ray Photoelectron Spectroscopy: A Review. Catalysts, 2020, 10, 286.	1.6	43
140	Reaction between H₂, CO, and H₂S over Fe, Ni metal in the solar nebula: Experimental evidence for the formation of sulfurâ€bearing organic molecules and sulfides. Meteoritics and Planetary Science, 2000, 35, 841-848.	0.7	42
141	Vapour phase hydrogenation of crotonaldehyde over magnesia-supported platinumâ€“tin catalysts. Physical Chemistry Chemical Physics, 2001, 3, 1782-1788.	1.3	42
142	Kinetic analysis and CFD simulations of the photocatalytic production of hydrogen in silicone microreactors from water-ethanol mixtures. Applied Catalysis B: Environmental, 2017, 203, 210-217.	10.8	42
143	Ethanol steam reforming at very low temperature over cobalt talc in a membrane reactor. Catalysis Today, 2012, 193, 101-106.	2.2	41
144	A General Approach To Fabricate Fe₃O₄ Nanoparticles Decorated with Pd, Au, and Rh: Magnetically Recoverable and Reusable Catalysts for Suzuki Cï£¿C Crossâ€Coupling Reactions, Hydrogenation, and Sequential Reactions. Chemistry - A European Journal, 2013, 19, 11963-11974.	1.7	41

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145	Boosted CO2 reaction with methanol to yield dimethyl carbonate over Mgâ€“Al hydrotalcite-silica lyogels. Chemical Communications, 2013, 49, 5489.	2.2	41
146	Durable ethanol steam reforming in a catalytic membrane reactor at moderate temperature over cobalt hydrotalcite. International Journal of Hydrogen Energy, 2014, 39, 10902-10910.	3.8	41
147	Silicone microreactors for the photocatalytic generation of hydrogen. Catalysis Today, 2016, 273, 106-111.	2.2	40
148	Coâ€“SiO2 aerogel-coated catalytic walls for the generation of hydrogen. Catalysis Today, 2008, 138, 193-197.	2.2	39
149	Effect of the Annealing Atmosphere on Crystal Phase and Thermoelectric Properties of Copper Sulfide. ACS Nano, 2021, 15, 4967-4978.	7.3	39
150	Catalytic reduction of nitrates in water on Pt promoted Cu hydrotalcite-derived catalysts: Effect of the Ptâ€“Cu alloy formation. Applied Catalysis B: Environmental, 2011, 110, 58-70.	10.8	38
151	The effect of Feâ€“Rh alloying on CO hydrogenation to C2+ oxygenates. Journal of Catalysis, 2015, 329, 87-94.	3.1	38
152	Comprehensive Study of All-Solid-State Z-Scheme Photocatalytic Systems of ZnO/Pt/CdZnS. ACS Omega, 2017, 2, 4828-4837.	1.6	38
153	Superior methanol electrooxidation performance of (110)-faceted nickel polyhedral nanocrystals. Journal of Materials Chemistry A, 2019, 7, 22036-22043.	5.2	38
154	Coâ€“Sn Nanocrystalline Solid Solutions as Anode Materials in Lithiumâ€ion Batteries with High Pseudocapacitive Contribution. ChemSusChem, 2019, 12, 1451-1458.	3.6	38
155	Asteroid 2002NY40 as a source of meteorite-dropping bolides. Monthly Notices of the Royal Astronomical Society, 2007, 382, 1933-1939.	1.6	37
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