

Laura Pastor PÃ©rez

List of Publications by Year in descending order

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71
papers

2,452
citations

201385

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223531

46
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76
all docs

76
docs citations

76
times ranked

2582
citing authors

#	ARTICLE	IF	CITATIONS
1	Catalytic Upgrading of Biomass Model Compounds: Novel Approaches and Lessons Learnt from Traditional Hydrodeoxygenation – a Review. <i>ChemCatChem</i> , 2019, 11, 924-960.	1.8	167
2	CO ₂ valorisation via Reverse Water-Gas Shift reaction using advanced Cs doped Fe-Cu/Al ₂ O ₃ catalysts. <i>Journal of CO₂ Utilization</i> , 2017, 21, 423-428.	3.3	156
3	Highly efficient Ni/CeO ₂ -Al ₂ O ₃ catalysts for CO ₂ upgrading via reverse water-gas shift: Effect of selected transition metal promoters. <i>Applied Catalysis B: Environmental</i> , 2018, 232, 464-471.	10.8	141
4	Ni stabilised on inorganic complex structures: superior catalysts for chemical CO ₂ recycling via dry reforming of methane. <i>Applied Catalysis B: Environmental</i> , 2018, 236, 458-465.	10.8	141
5	Understanding the promoter effect of Cu and Cs over highly effective Ir ²⁺ -Mo ₂ C catalysts for the reverse water-gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 244, 889-898.	10.8	101
6	Membrane-based technologies for biogas upgrading: a review. <i>Environmental Chemistry Letters</i> , 2020, 18, 1649-1658.	8.3	87
7	Switchable Catalysts for Chemical CO ₂ Recycling: A Step Forward in the Methanation and Reverse Water-Gas Shift Reactions. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 4614-4622.	3.2	69
8	Synthetic natural gas production from CO ₂ over Ni-x/CeO ₂ -ZrO ₂ (x = Fe, Co) catalysts: Influence of promoters and space velocity. <i>Catalysis Today</i> , 2018, 317, 108-113.	2.2	64
9	CO ₂ valorisation via reverse water-gas shift reaction using promoted Fe/CeO ₂ -Al ₂ O ₃ catalysts: Showcasing the potential of advanced catalysts to explore new processes design. <i>Applied Catalysis A: General</i> , 2020, 593, 117442.	2.2	61
10	Improving Fe/Al ₂ O ₃ Catalysts for the Reverse Water-Gas Shift Reaction: On the Effect of Cs as Activity/Selectivity Promoter. <i>Catalysts</i> , 2018, 8, 608.	1.6	56
11	Carbon stabilised saponite supported transition metal-alloy catalysts for chemical CO ₂ utilisation via reverse water-gas shift reaction. <i>Applied Catalysis B: Environmental</i> , 2020, 261, 118241.	10.8	56
12	CO ₂ methanation in the presence of methane: Catalysts design and effect of methane concentration in the reaction mixture. <i>Journal of the Energy Institute</i> , 2020, 93, 415-424.	2.7	53
13	CeO ₂ -promoted Ni/activated carbon catalysts for the water-gas shift (WGS) reaction. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 17589-17599.	3.8	49
14	Effect of the CeO ₂ synthesis method on the behaviour of Pt/CeO ₂ catalysis for the water-gas shift reaction. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21837-21846.	3.8	47
15	Hydrodeoxygenation of guaiacol: Tuning the selectivity to cyclohexene by introducing Ni nanoparticles inside carbon nanotubes. <i>Fuel</i> , 2016, 172, 65-69.	3.4	46
16	Biogas Upgrading Via Dry Reforming Over a Ni-Sn/CeO ₂ -Al ₂ O ₃ Catalyst: Influence of the Biogas Source. <i>Energies</i> , 2019, 12, 1007.	1.6	46
17	Solvent- and Ligand-free Diboration of Alkynes and Alkenes Catalyzed by Platinum Nanoparticles on Titania. <i>ChemCatChem</i> , 2014, 6, 857-865.	1.8	43
18	Low temperature glycerol steam reforming on bimetallic PtSn/C catalysts: On the effect of the Sn content. <i>Fuel</i> , 2017, 194, 222-228.	3.4	42

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19	Investigating New Routes for Biomass Upgrading: H_2 -Free Hydrodeoxygenation Using Ni-Based Catalysts. ACS Sustainable Chemistry and Engineering, 2019, 7, 16041-16049.	3.2	40
20	Effect of cold Ar plasma treatment on the catalytic performance of Pt/CeO ₂ in water-gas shift reaction (WGS). Applied Catalysis B: Environmental, 2018, 225, 121-127.	10.8	39
21	Catalytic Conversion of Palm Oil to Bio-Hydrogenated Diesel over Novel N-Doped Activated Carbon Supported Pt Nanoparticles. Energies, 2020, 13, 132.	1.6	37
22	Bio-methane and bio-methanol co-production from biogas: A profitability analysis to explore new sustainable chemical processes. Journal of Cleaner Production, 2020, 265, 121909.	4.6	36
23	Bimetallic Cu-Ni catalysts for the WGS reaction – Cooperative or uncooperative effect?. International Journal of Hydrogen Energy, 2019, 44, 4011-4019.	3.8	35
24	Stepping towards a low-carbon economy. Formic acid from biogas as case of study. Applied Energy, 2020, 268, 115033.	5.1	35
25	Carbon nanotube-supported Ni-CeO ₂ catalysts. Effect of the support on the catalytic performance in the low-temperature WGS reaction. Carbon, 2016, 101, 296-304.	5.4	31
26	Understanding the opportunities of metal-organic frameworks (MOFs) for CO ₂ capture and gas-phase CO ₂ conversion processes: a comprehensive overview. Reaction Chemistry and Engineering, 2021, 6, 787-814.	1.9	31
27	Highly Active and Selective Multicomponent Fe-Cu/CeO ₂ -Al ₂ O ₃ Catalysts for CO ₂ Upgrading via RWGS: Impact of Fe/Cu Ratio. ACS Sustainable Chemistry and Engineering, 2021, 9, 12155-12166.	3.2	30
28	Noble Metal Supported on Activated Carbon for H_2 -Free HDO Reactions: Exploring Economically Advantageous Routes for Biomass Valorisation. ChemCatChem, 2019, 11, 4434-4441.	1.8	29
29	Transition Metal Carbides (TMCs) Catalysts for Gas Phase CO ₂ Upgrading Reactions: A Comprehensive Overview. Catalysts, 2020, 10, 955.	1.6	29
30	Highly active Cu-ZnO catalysts for the WGS reaction at medium-high space velocities: Effect of the support composition. International Journal of Hydrogen Energy, 2017, 42, 10747-10751.	3.8	28
31	Cost-effective routes for catalytic biomass upgrading. Current Opinion in Green and Sustainable Chemistry, 2020, 23, 1-9.	3.2	27
32	In-situ HDO of guaiacol over nitrogen-doped activated carbon supported nickel nanoparticles. Applied Catalysis A: General, 2021, 620, 118033.	2.2	27
33	Robust mesoporous bimetallic yolk-shell catalysts for chemical CO ₂ upgrading via dry reforming of methane. Reaction Chemistry and Engineering, 2018, 3, 433-436.	1.9	26
34	Nickel Phosphide Catalysts as Efficient Systems for CO ₂ Upgrading via Dry Reforming of Methane. Catalysts, 2021, 11, 446.	1.6	26
35	Conversion of CO ₂ to added value products via rWGS using Fe-promoted catalysts: Carbide, metallic Fe or a mixture?. Journal of Energy Chemistry, 2022, 66, 635-646.	7.1	26
36	Ir supported over carbon materials for the selective hydrogenation of chloronitrobenzenes. Catalysis Today, 2015, 249, 72-78.	2.2	25

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37	Flexible syngas production using a La ₂ Zr _{2-x} Ni _x O _{7-δ} pyrochlore-double perovskite catalyst: Towards a direct route for gas phase CO ₂ recycling. <i>Catalysis Today</i> , 2020, 357, 583-589.	2.2	25
38	Synthesis of palladium nanoparticles over graphite oxide and carbon nanotubes by reduction in ethylene glycol and their catalytic performance on the chemoselective hydrogenation of para-chloronitrobenzene. <i>Applied Catalysis A: General</i> , 2016, 513, 89-97.	2.2	24
39	Multicomponent NiSnCeO ₂ /C catalysts for the low-temperature glycerol steam reforming. <i>Applied Catalysis A: General</i> , 2017, 529, 118-126.	2.2	24
40	Ni-CeO ₂ /C Catalysts with Enhanced OSC for the WGS Reaction. <i>Catalysts</i> , 2015, 5, 298-309.	1.6	23
41	Analysis of the potential for biogas upgrading to syngas via catalytic reforming in the United Kingdom. <i>Renewable and Sustainable Energy Reviews</i> , 2021, 144, 110939.	8.2	23
42	Synthesis of palladium nanoparticles on carbon nanotubes and graphene for the chemoselective hydrogenation of para-chloronitrobenzene. <i>Catalysis Communications</i> , 2016, 75, 55-59.	1.6	22
43	Yolk-Shell structured NiCo@SiO ₂ nanoreactor for CO ₂ upgrading via reverse water-gas shift reaction. <i>Catalysis Today</i> , 2022, 383, 358-367.	2.2	22
44	Versatile Ni-Ru catalysts for gas phase CO ₂ conversion: Bringing closer dry reforming, reverse water gas shift and methanation to enable end-products flexibility. <i>Fuel</i> , 2022, 315, 123097.	3.4	22
45	“H ₂ -free” demethoxylation of guaiacol in subcritical water using Pt supported on N-doped carbon catalysts: A cost-effective strategy for biomass upgrading. <i>Journal of Energy Chemistry</i> , 2021, 58, 377-385.	7.1	19
46	Advantages of Yolk Shell Catalysts for the DRM: A Comparison of Ni/ZnO@SiO ₂ vs. Ni/CeO ₂ and Ni/Al ₂ O ₃ . <i>Chemistry</i> , 2019, 1, 3-16.	0.9	18
47	Novel process for carbon capture and utilization and saline wastes valorization. <i>Journal of Natural Gas Science and Engineering</i> , 2020, 73, 103071.	2.1	18
48	Effect of Cu and Cs in the δ -Mo ₂ C System for CO ₂ Hydrogenation to Methanol. <i>Catalysts</i> , 2020, 10, 1213.	1.6	18
49	Ni-Phosphide catalysts as versatile systems for gas-phase CO ₂ conversion: Impact of the support and evidences of structure-sensitivity. <i>Fuel</i> , 2022, 323, 124301.	3.4	17
50	Promoter effect of sodium in graphene-supported Ni and Ni@CeO ₂ catalyst for the low-temperature WGS reaction. <i>Applied Catalysis A: General</i> , 2015, 505, 98-104.	2.2	16
51	Biogas upgrading to biomethane as a local source of renewable energy to power light marine transport: Profitability analysis for the county of Cornwall. <i>Waste Management</i> , 2022, 137, 81-88.	3.7	16
52	Sustainable routes for acetic acid production: Traditional processes vs a low-carbon, biogas-based strategy. <i>Science of the Total Environment</i> , 2022, 840, 156663.	3.9	15
53	Bimetallic PtSn/C catalysts obtained via SOMC/M for glycerol steam reforming. <i>Journal of Colloid and Interface Science</i> , 2015, 459, 160-166.	5.0	13
54	Guaiacol hydrodeoxygenation in hydrothermal conditions using N-doped reduced graphene oxide (RGO) supported Pt and Ni catalysts: Seeking for economically viable biomass upgrading alternatives. <i>Applied Catalysis A: General</i> , 2021, 611, 117977.	2.2	13

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55	Catalytic Steam Reforming of Toluene: Understanding the Influence of the Main Reaction Parameters over a Reference Catalyst. <i>Energies</i> , 2020, 13, 813.	1.6	13
56	Effect of the surface oxidation of carbon nanotubes on the selective cyclization of citronellal. <i>Applied Catalysis A: General</i> , 2016, 524, 25-31.	2.2	12
57	Catalytic upgrading of acetone, butanol and ethanol (ABE): A step ahead for the production of added value chemicals in bio-refineries. <i>Renewable Energy</i> , 2020, 156, 1065-1075.	4.3	12
58	Plasma-Assisted Synthesis of Monodispersed and Robust Ruthenium Ultrafine Nanocatalysts for Organosilane Oxidation and Oxygen Evolution Reactions. <i>ChemCatChem</i> , 2017, 9, 4159-4163.	1.8	11
59	Lignin to Monoaromatics with a Carbon-Nanofiber-Supported Ni-CeO ₂ Catalyst Synthesized in a One-Pot Hydrothermal Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 12800-12812.	3.2	11
60	K-Promoted Ni-Based Catalysts for Gas-Phase CO ₂ Conversion: Catalysts Design and Process Modelling Validation. <i>Frontiers in Chemistry</i> , 2021, 9, 785571.	1.8	10
61	Catalytic Upgrading of a Biogas Model Mixture via Low Temperature DRM Using Multicomponent Catalysts. <i>Topics in Catalysis</i> , 2020, 63, 281-293.	1.3	9
62	Carbothermally generated copper-molybdenum carbide supported on graphite for the CO ₂ hydrogenation to methanol. <i>Catalysis Science and Technology</i> , 2021, 11, 4051-4059.	2.1	7
63	Design of Full-Temperature-Range RWGS Catalysts: Impact of Alkali Promoters on Ni/CeO ₂ . <i>Energy & Fuels</i> , 2022, 36, 6362-6373.	2.5	7
64	The Success Story of Gold-Based Catalysts for Gas- and Liquid-Phase Reactions: A Brief Perspective and Beyond. <i>Frontiers in Chemistry</i> , 2019, 7, 691.	1.8	6
65	Integration of Fossil Fuel-based with Bio-based Industries: The Use of Waste Streams and Biomass to Produce Syngas and Added Value Products. <i>IFAC-PapersOnLine</i> , 2019, 52, 616-621.	0.5	5
66	Physicochemical comparison of precipitated calcium carbonate for different configurations of a biogas upgrading unit. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2256-2262.	1.6	5
67	Influence of Reaction Parameters on the Catalytic Upgrading of an Acetone, Butanol, and Ethanol (ABE) Mixture: Exploring New Routes for Modern Biorefineries. <i>Frontiers in Chemistry</i> , 2019, 7, 906.	1.8	5
68	Recent advances on gas-phase CO ₂ conversion: Catalysis design and chemical processes to close the carbon cycle. <i>Current Opinion in Green and Sustainable Chemistry</i> , 2022, 36, 100647.	3.2	4
69	Biogas as a Renewable Energy Source: Focusing on Principles and Recent Advances of Membrane-Based Technologies for Biogas Upgrading. <i>Environmental Chemistry for A Sustainable World</i> , 2020, , 95-120.	0.3	1
70	14. Gas phase reactions for chemical CO ₂ upgrading. , 2019, , 249-280.		0
71	Integrating Oil Refineries and Bio-refineries: Upgrading Acetone, Butanol and Ethanol to High-Value Products. <i>Computer Aided Chemical Engineering</i> , 2019, 46, 349-354.	0.3	0