Patricia Pizarro

List of Publications by Citations

75 papers	3,732 citations	36 h-index	60 g-index
77 ext. papers	4,222 ext. citations	8.4 avg, IF	5.68 L-index

#	Paper	IF	Citations
75	Synthesis strategies in the search for hierarchical zeolites. *Chemical Society Reviews*, **2013**, 42, 4004-35	58.5	557
74	Effect of metal support interaction on the selective hydrodeoxygenation of anisole to aromatics over Ni-based catalysts. *Applied Catalysis B: Environmental*, **2014**, 145, 91-100	21.8	159
73	From 3D to 2D zeolite catalytic materials. *Chemical Society Reviews*, **2018**, 47, 8263-8306	58.5	153
72	Hydrodeoxygenation of anisole as bio-oil model compound over supported Ni and Co catalysts: Effect of metal and support properties. *Catalysis Today*, **2015**, 243, 163-172	5.3	116
71	Hydrogen production by methane decomposition: Origin of the catalytic activity of carbon materials. *Fuel*, **2010**, 89, 1241-1248	7.1	116
70	Thermochemical energy storage at high temperature via redox cycles of Mn and Co oxides: Pure oxides versus mixed ones. *Solar Energy Materials and Solar Cells*, **2014**, 123, 47-57	6.4	113
69	Progress in the design of zeolite catalysts for biomass conversion into biofuels and bio-based chemicals. *Catalysis Reviews - Science and Engineering*, **2018**, 60, 1-70	12.6	106
68	Lamellar and pillared ZSM-5 zeolites modified with MgO and ZnO for catalytic fast-pyrolysis of eucalyptus woodchips. *Catalysis Today*, **2016**, 277, 171-181	5.3	91
67	Improving the Thermochemical Energy Storage Performance of the Mn2 O3 /Mn3 O4 Redox Couple by the Incorporation of Iron. *ChemSusChem*, **2015**, 8, 1947-54	8.3	91
66	Evaluation of transition metal phosphides supported on ordered mesoporous materials as catalysts for phenol hydrodeoxygenation. *Green Chemistry*, **2016**, 18, 1938-1951	10	87
65	Thermochemical heat storage based on the Mn2O3/Mn3O4 redox couple: influence of the initial particle size on the morphological evolution and cyclability. *Journal of Materials Chemistry A*, **2014**, 2, 19435-19443	13	87
64	Hierarchical TS-1 zeolite as an efficient catalyst for oxidative desulphurization of hydrocarbon fractions. *Applied Catalysis B: Environmental*, **2014**, 146, 35-42	21.8	81
63	Turning TS-1 zeolite into a highly active catalyst for olefin epoxidation with organic hydroperoxides. *Chemical Communications*, **2009**, 1407-9	5.8	80
62	Hydrocarbons production through hydrotreating of methyl esters over Ni and Co supported on SBA-15 and Al-SBA-15. *Catalysis Today*, **2013**, 210, 81-88	5.3	79
61	Study on the Synthesis of High-Surface-Area Mesoporous TiO2in the Presence of Nonionic Surfactants. *Industrial & Engineering Chemistry Research*, **2004**, 43, 2485-2492	3.9	72
60	Engineering the acidity and accessibility of the zeolite ZSM-5 for efficient bio-oil upgrading in catalytic pyrolysis of lignocellulose. *Green Chemistry*, **2018**, 20, 3499-3511	10	65
59	Assessing biomass catalytic pyrolysis in terms of deoxygenation pathways and energy yields for the efficient production of advanced biofuels. *Catalysis Science and Technology*, **2016**, 6, 2829-2843	5.5	63

58	Influence of the Ni/P ratio and metal loading on the performance of NixPy/SBA-15 catalysts for the hydrodeoxygenation of methyl oleate. *Fuel*, **2015**, 144, 60-70	7.1	60
57	Revisiting the BaO2/BaO redox cycle for solar thermochemical energy storage. *Physical Chemistry Chemical Physics*, **2016**, 18, 8039-48	3.6	57
56	Photocatalytic degradation of imazapyr in water: Comparison of activities of different supported and unsupported TiO2-based catalysts. *Catalysis Today*, **2005**, 101, 211-218	5.3	57
55	Biomass catalytic fast pyrolysis over hierarchical ZSM-5 and Beta zeolites modified with Mg and Zn oxides. *Biomass Conversion and Biorefinery*, **2017**, 7, 289-304	2.3	55
54	Methane catalytic decomposition over ordered mesoporous carbons: A promising route for hydrogen production. *International Journal of Hydrogen Energy*, **2010**, 35, 9788-9794	6.7	54
53	Tailoring the properties of hierarchical TS-1 zeolite synthesized from silanized protozeolitic units. *Applied Catalysis A: General*, **2012**, 435-436, 32-42	5.1	53
52	Advanced biofuels production by upgrading of pyrolysis bio-oil. *Wiley Interdisciplinary Reviews: Energy and Environment*, **2017**, 6, e245	4.7	52
51	Ordered mesoporous carbons as highly active catalysts for hydrogen production by CH(4) decomposition. *Chemical Communications*, **2008**, 6585-7	5.8	52
50	Enhancement of hydrocarbon production via artificial photosynthesis due to synergetic effect of Ag supported on TiO2 and ZnO semiconductors. *Chemical Engineering Journal*, **2013**, 224, 128-135	14.7	51
49	Preparation of extruded catalysts based on TS-1 zeolite for their application in propylene epoxidation. *Catalysis Today*, **2009**, 143, 151-157	5.3	51
48	Catalytic hydrodeoxygenation of m-cresol over Ni 2 P/hierarchical ZSM-5. *Catalysis Today*, **2018**, 304, 72-79	5.3	50
47	Hierarchical TS-1 zeolite synthesized from SiO2 TiO2 xerogels imprinted with silanized protozeolitic units. *Chemical Engineering Journal*, **2011**, 171, 1428-1438	14.7	50
46	CO2 adsorption on amine-functionalized clays. *Microporous and Mesoporous Materials*, **2019**, 282, 38-47	5.3	47
45	Mesostructured SiO2-doped TiO2 with enhanced thermal stability prepared by a soft-templating sol□gel route. *Microporous and Mesoporous Materials*, **2008**, 111, 429-440	5.3	47
44	Narrowing the mesopore size distribution in hierarchical TS-1 zeolite by surfactant-assisted reorganization. *Microporous and Mesoporous Materials*, **2014**, 189, 71-82	5.3	42
43	Kinetic and autocatalytic effects during the hydrogen production by methane decomposition over carbonaceous catalysts. *International Journal of Hydrogen Energy*, **2013**, 38, 5671-5683	6.7	42
42	Development of crystallinity and photocatalytic properties in porous TiO2 by mild acid treatment. *Journal of Materials Chemistry*, **2007**, 17, 1178		40
41	Understanding Redox Kinetics of Iron-Doped Manganese Oxides for High Temperature Thermochemical Energy Storage. *Journal of Physical Chemistry C*, **2016**, 120, 27800-27812	3.8	39

40	Manganese oxide-based thermochemical energy storage: Modulating temperatures of redox cycles by Fe□u co-doping. *Journal of Energy Storage*, **2016**, 5, 169-176	7.8	36
39	Photocatalytic hydrogen production in the water/methanol system using Pt/RE:NaTaO3 (RE = Y, La, Ce, Yb) catalysts. *International Journal of Hydrogen Energy*, **2014**, 39, 5283-5290	6.7	35
38	Enhanced photocatalytic hydrogen production by improving the Pt dispersion over mesostructured TiO2. *International Journal of Hydrogen Energy*, **2014**, 39, 4812-4819	6.7	33
37	Preparation of bimodal micro-mesoporous TiO2 with tailored crystalline properties. *Chemical Communications*, **2004**, 1000-1	5.8	33
36	Ce-promoted Ni/SBA-15 catalysts for anisole hydrotreating under mild conditions. *Applied Catalysis B: Environmental*, **2016**, 197, 206-213	21.8	32
35	Selective oxidation of benzyl alcohol using in situ generated H2O2 over hierarchical Au□d titanium silicalite catalysts. *Catalysis Science and Technology*, **2013**, 3, 2425	5.5	32
34	Bio-oil production by lignocellulose fast-pyrolysis: Isolating and comparing the effects of indigenous versus external catalysts. *Fuel Processing Technology*, **2017**, 167, 563-574	7.2	32
33	Advances in the design of ordered mesoporous materials for low-carbon catalytic hydrogen production. *Journal of Materials Chemistry A*, **2013**, 1, 12016	13	30
32	Chemical insights on the activity of La1-xSrxFeO3 perovskites for chemical looping reforming of methane coupled with CO2-splitting. *Journal of CO2 Utilization*, **2019**, 31, 16-26	7.6	28
31	Synthesis of Hierarchical TS-1 Zeolite from Silanized Seeds. *Topics in Catalysis*, **2010**, 53, 1319-1329	2.3	28
30	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
29	Mixed NaNbxTa1□O3 perovskites as photocatalysts for H2 production. *Green Chemistry*, **2015**, 17, 1735-1743	10	27
28	Improvement of the hierarchical TS-1 properties by silanization of protozeolitic units in presence of alcohols. *Microporous and Mesoporous Materials*, **2013**, 166, 59-66	5.3	25
27	Performance of MCM-22 zeolite for the catalytic fast-pyrolysis of acid-washed wheat straw. *Catalysis Today*, **2018**, 304, 30-38	5.3	24
26	The crucial role of clay binders in the performance of ZSM-5 based materials for biomass catalytic pyrolysis. *Catalysis Science and Technology*, **2019**, 9, 789-802	5.5	23
25	Guaiacol hydrodeoxygenation over Ni2P supported on 2D-zeolites. *Catalysis Today*, **2020**, 345, 48-58	5.3	23
24	Thermochemical Heat Storage at High Temperatures using Mn2O3/Mn3O4 System: Narrowing the Redox Hysteresis by Metal Co-doping. *Energy Procedia*, **2015**, 73, 263-271	2.3	20
23	Synthesis of Nickel Phosphide Nanorods as Catalyst for the Hydrotreating of Methyl Oleate. *Topics in Catalysis*, **2012**, 55, 991-998	2.3	20

22	Cross-reactivity of guaiacol and propionic acid blends during hydrodeoxygenation over Ni-supported catalysts. *Fuel*, **2018**, 214, 187-195	7.1	20
21	Thermochemical valorization of camelina straw waste via fast pyrolysis. *Biomass Conversion and Biorefinery*, **2017**, 7, 277-287	2.3	17
20	Hydrogen production through catalytic methane decomposition promoted by pure silica materials. *International Journal of Hydrogen Energy*, **2015**, 40, 5237-5243	6.7	16
19	Hydrogen production by methane decomposition over pure silica SBA-15 materials. *Catalysis Today*, **2016**, 277, 152-160	5.3	16
18	Scaling-Up of Bio-Oil Upgrading during Biomass Pyrolysis over ZrO /ZSM-5-Attapulgite. *ChemSusChem*, **2019**, 12, 2428-2438	8.3	13
17	Exploring the Redox Behavior of La0.6Sr0.4Mn1AlxO3 Perovskites for CO2-Splitting in Thermochemical Cycles. *Topics in Catalysis*, **2017**, 60, 1108-1118	2.3	12
16	Catalytic Copyrolysis of Lignocellulose and Polyethylene Blends over HBeta Zeolite. *Industrial & Engineering Chemistry Research*, **2019**, 58, 6243-6254	3.9	12
15	Exploring the thermochemical heat storage capacity of AMn2O4 (A = Li or Cu) spinels. *Solid State Ionics*, **2018**, 320, 316-324	3.3	12
14	Hydrogen production by methane decomposition over MnOx/YSZ catalysts. *International Journal of Hydrogen Energy*, **2016**, 41, 19382-19389	6.7	12
13	Design of efficient Mn-based redox materials for thermochemical heat storage at high temperatures **2016**,		11
12	Factors influencing the photocatalytic activity of alkali NbTa perovskites for hydrogen production from aqueous methanol solutions. *International Journal of Hydrogen Energy*, **2016**, 41, 19921-19928	6.7	11
11	On the Feasibility of Using Hierarchical ZSM-5 and Beta Zeolites as Supports of Metal Phosphides for Catalytic Hydrodeoxygenation of Phenol. *Energy Technology*, **2019**, 7, 1900214	3.5	9
10	Assessing Cr incorporation in Mn2O3/Mn3O4 redox materials for thermochemical heat storage applications. *Journal of Energy Storage*, **2021**, 33, 102028	7.8	9
9	Cascade Deoxygenation Process Integrating Acid and Base Catalysts for the Efficient Production of Second-Generation Biofuels. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 18027-18037	8.3	8
8	Transition Metal Phosphide Nanoparticles Supported on SBA-15 as Highly Selective Hydrodeoxygenation Catalysts for the Production of Advanced Biofuels. *Journal of Nanoscience and Nanotechnology*, **2015**, 15, 6642-50	1.3	8
7	Pyrolysis of microalgae for fuel production **2017**, 259-281		8
6	Development of Hierarchical Porosity in Zeolites by Using Organosilane-Based Strategies **2015**, 157-198		3
5	Enhanced performance of CH4 dry reforming over La0.9Sr0.1FeO3/YSZ under chemical looping conditions. *Fuel*, **2022**, 309, 122122	7.1	3

4	zsm-5 ZEOLITES PERFORMANCE ASSESSMENT IN CATALYTIC PYROLYSIS OF pvc-containing REAL WEEE PLASTIC wastes. *Catalysis Today*, **2021**,	5.3	1
3	Determining the Role of Fe-Doping on Promoting the Thermochemical Energy Storage Performance of (Mn Fe) O Spinels.. *Small Methods*, **2021**, 5, e2100550	12.8	1
2	Hydrogen production by catalytic methane decomposition over rice husk derived silica. *Fuel*, **2021**, 306, 121697	7.1	0
1	Transportation Biofuels via the Pyrolysis Pathway: Status and Prospects **2019**, 1081-1112		