

# Esther Bailon Garcia

## List of Publications by Year in Descending Order

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**Version:** 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67  
papers

1,206  
citations

19  
h-index

33  
g-index

73  
ext. papers

1,664  
ext. citations

7.4  
avg, IF

5.08  
L-index

#	Paper	IF	Citations
67	Intrinsic kinetics of CO <sub>2</sub> methanation on low-loaded Ni/Al <sub>2</sub> O <sub>3</sub> catalyst: Mechanism, model discrimination and parameter estimation. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 57, 101888	7.6	0
66	Shaping a soot combustion Ce <sub>0.5</sub> Pr <sub>0.5</sub> O <sub>x</sub> catalyst. <i>Applied Surface Science</i> , <b>2022</b> , 584, 152513	6.7	0
65	Sponge-like carbon monoliths: Porosity control of 3D-printed carbon supports and its influence on the catalytic performance. <i>Chemical Engineering Journal</i> , <b>2022</b> , 432, 134218	14.7	0
64	Monitoring by in situ NAP-XPS of active sites for CO <sub>2</sub> methanation on a Ni/CeO <sub>2</sub> catalyst. <i>Journal of CO<sub>2</sub> Utilization</i> , <b>2022</b> , 60, 101980	7.6	0
63	3D Modeling of the Adsorption Rate of Pyridine on Activated Carbon Cloth in a Stirred Tank under Turbulent Conditions. <i>Processes</i> , <b>2022</b> , 10, 735	2.9	1
62	Elucidating the Role of the Metal Catalyst and Oxide Support in the Ru/CeO-Catalyzed CO Methanation Mechanism. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 25533-25544	3.8	2
61	From CO <sub>2</sub> to Value-Added Products: A Review about Carbon-Based Materials for Electro-Chemical CO <sub>2</sub> Conversion. <i>Catalysts</i> , <b>2021</b> , 11, 351	4	8
60	Mineral Manganese Oxides as Oxidation Catalysts: Capabilities in the CO-PROX Reaction. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 6329-6336	8.3	1
59	Improved Cd (II) ions removal performance from aqueous solution using cerium doped activated carbon. <i>Materials Today: Proceedings</i> , <b>2021</b> , 51, 1957-1957	1.4	0
58	Effect of Pr in CO Methanation Ru/CeO Catalysts. <i>Journal of Physical Chemistry C</i> , <b>2021</b> , 125, 12038-12049	3.9	1
57	Activated carbon-based coloured titania nanoparticles with high visible radiation absorption and excellent photoactivity in the degradation of emerging drugs of wastewater. <i>Carbon</i> , <b>2021</b> , 178, 753-766	10.4	6
56	Synthesis of modified TiO <sub>2</sub> -based catalysts for the photocatalytic production of solar fuels from synthesis gas. <i>Catalysis Today</i> , <b>2021</b> , 379, 272-284	5.3	1
55	Hydrodynamic effects on the overall adsorption rate of phenol on activated carbon cloth through the advection-diffusion model application. <i>Journal of Industrial and Engineering Chemistry</i> , <b>2021</b> , 93, 267-278	6.3	4
54	Carbon Microspheres with Tailored Texture and Surface Chemistry As Electrode Materials for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 541-551	8.3	2
53	Active, selective and stable NiO-CeO <sub>2</sub> nanoparticles for CO <sub>2</sub> methanation. <i>Fuel Processing Technology</i> , <b>2021</b> , 212, 106637	7.2	15
52	PrOx nanoparticles: Active and stable catalysts for soot combustion. <i>Applied Surface Science</i> , <b>2021</b> , 563, 150183	6.7	2
51	Effect of Ru loading on Ru/CeO <sub>2</sub> catalysts for CO <sub>2</sub> methanation. <i>Molecular Catalysis</i> , <b>2021</b> , 515, 111911	3.3	2

50	Investigations of the Effect of H <sub>2</sub> in CO Oxidation over Ceria Catalysts. <i>Catalysts</i> , <b>2021</b> , 11, 1556	4	0
49	Insights into the Oxygen Vacancy Filling Mechanism in CuO/CeO <sub>2</sub> Catalysts: A Key Step Toward High Selectivity in Preferential CO Oxidation. <i>ACS Catalysis</i> , <b>2020</b> , 10, 6532-6545	13.1	48
48	Catalysts based on carbon xerogels with high catalytic activity for the reduction of NO <sub>x</sub> at low temperatures. <i>Catalysis Today</i> , <b>2020</b> , 356, 301-311	5.3	2
47	Valorization of agricultural wood wastes as electrodes for electrochemical capacitors by chemical activation with H <sub>3</sub> PO <sub>4</sub> and KOH. <i>Wood Science and Technology</i> , <b>2020</b> , 54, 401-420	2.5	8
46	Enhancement of the Generation and Transfer of Active Oxygen in Ni/CeO Catalysts for Soot Combustion by Controlling the Ni-Ceria Contact and the Three-Dimensional Structure. <i>Environmental Science &amp; Technology</i> , <b>2020</b> , 54, 2439-2447	10.3	20
45	Cellulose/TiO <sub>2</sub> composites for the removal of water pollutants <b>2020</b> , 329-358		4
44	Functionalized Cellulose for the Controlled Synthesis of Novel Carbon-Ti Nanocomposites: Physicochemical and Photocatalytic Properties. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	17
43	Isotopic study of the La <sub>0.7</sub> Ag <sub>0.3</sub> MnO <sub>B</sub> perovskite-catalyzed soot oxidation in presence of NO. <i>Applied Catalysis A: General</i> , <b>2020</b> , 599, 117611	5.1	5
42	Design of active sites in Ni/CeO <sub>2</sub> catalysts for the methanation of CO <sub>2</sub> : tailoring the Ni-CeO <sub>2</sub> contact. <i>Applied Materials Today</i> , <b>2020</b> , 19, 100591	6.6	13
41	A new platform for facile synthesis of hybrid TiO <sub>2</sub> nanostructures by various functionalizations of cellulose to be used in highly-efficient photocatalysis. <i>Materials Letters</i> , <b>2020</b> , 274, 128016	3.3	3
40	Key-lock Ceria Catalysts for the Control of Diesel Engine Soot Particulate Emissions. <i>ChemCatChem</i> , <b>2020</b> , 12, 1772-1781	5.2	9
39	Isotopic and in situ DRIFTS study of the CO <sub>2</sub> methanation mechanism using Ni/CeO <sub>2</sub> and Ni/Al <sub>2</sub> O <sub>3</sub> catalysts. <i>Applied Catalysis B: Environmental</i> , <b>2020</b> , 265, 118538	21.8	81
38	Copper-Lanthanum Catalysts for NO <sub>x</sub> and Soot Removal. <i>ChemCatChem</i> , <b>2020</b> , 12, 6375-6384	5.2	1
37	Customizable Heterogeneous Catalysts: Nonchanneled Advanced Monolithic Supports Manufactured by 3D-Printing for Improved Active Phase Coating Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 54573-54584	9.5	15
36	ZrO <sub>2</sub> -TiO <sub>2</sub> /Carbon core-shell composites as highly efficient solar-driven photo-catalysts: An approach for removal of hazardous water pollutants. <i>Journal of Environmental Chemical Engineering</i> , <b>2020</b> , 8, 104350	6.8	0
35	Stable NiO/TiO <sub>2</sub> nanoparticles with improved carbon resistance for methane dry reforming. <i>Journal of Rare Earths</i> , <b>2020</b> ,	3.7	5
34	Bacteria Supported on Carbon-Coated Monoliths for Water Denitrification. <i>Journal of Carbon Research</i> , <b>2020</b> , 6, 77	3.3	
33	Effect of metal loading on the CO <sub>2</sub> methanation: A comparison between alumina supported Ni and Ru catalysts. <i>Catalysis Today</i> , <b>2020</b> , 356, 419-432	5.3	45

32	Reduction of NO with new vanadium-carbon xerogel composites. Effect of the oxidation state of vanadium species. <i>Carbon</i> , <b>2020</b> , 156, 194-204	10.4	6
31	Design of Monolithic Supports by 3D Printing for Its Application in the Preferential Oxidation of CO (CO-PrOx). <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36763-36773	9.5	17
30	The use of functionalized carbon xerogels in cells growth. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 598-607	8.3	6
29	PrOx catalysts for the combustion of soot generated in diesel engines: effect of CuO and 3DOM structures. <i>Catalysis Science and Technology</i> , <b>2019</b> , 9, 2553-2562	5.5	3
28	Cobalt oxide-carbon nanocatalysts with highly enhanced catalytic performance for the green synthesis of nitrogen heterocycles through the Friedländer condensation. <i>Dalton Transactions</i> , <b>2019</b> , 48, 5637-5648	4.3	8
27	Improved asymmetrical honeycomb monolith catalyst prepared using a 3D printed template. <i>Journal of Hazardous Materials</i> , <b>2019</b> , 368, 638-643	12.8	27
26	Influence of Surface Chemistry on the Electrochemical Performance of Biomass-Derived Carbon Electrodes for its Use as Supercapacitors. <i>Materials</i> , <b>2019</b> , 12,	3.5	4
25	Mesoporous carbon nanospheres with improved conductivity for electro-catalytic reduction of O <sub>2</sub> and CO <sub>2</sub> . <i>Carbon</i> , <b>2019</b> , 155, 88-99	10.4	13
24	Monitoring intermediate species formation by DRIFT during the simultaneous removal of soot and NO <sub>x</sub> over LaAgMnO <sub>3</sub> catalyst. <i>Applied Catalysis A: General</i> , <b>2019</b> , 588, 117280	5.1	12
23	Synthesis of Ti <sub>x</sub> O <sub>y</sub> nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 241, 385-392	21.8	47
22	Carbon-vanadium composites as non-precious catalysts for electro-reduction of oxygen. <i>Carbon</i> , <b>2019</b> , 144, 289-300	10.4	9
21	Three-dimensionally ordered macroporous PrOx: An improved alternative to ceria catalysts for soot combustion. <i>Applied Catalysis B: Environmental</i> , <b>2019</b> , 248, 567-572	21.8	31
20	Effect of calcination temperature of a copper ferrite synthesized by a sol-gel method on its structural characteristics and performance as Fenton catalyst to remove gallic acid from water. <i>Journal of Colloid and Interface Science</i> , <b>2018</b> , 511, 193-202	9.3	33
19	Physicochemical properties of new cellulose-TiO <sub>2</sub> composites for the removal of water pollutants: Developing specific interactions and performances by cellulose functionalization. <i>Journal of Environmental Chemical Engineering</i> , <b>2018</b> , 6, 5032-5041	6.8	40
18	Fitting the experimental conditions and characteristics of Pt/C catalyst for the selective hydrogenation of citral. <i>Chemical Engineering Communications</i> , <b>2018</b> , 205, 1299-1310	2.2	1
17	Carbon//TiO <sub>2</sub> composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 633-644	13	63
16	Electrochemical performances of supercapacitors from carbon-ZrO <sub>2</sub> composites. <i>Electrochimica Acta</i> , <b>2018</b> , 259, 803-814	6.7	26
15	Development of Vanadium-Coated Carbon Microspheres: Electrochemical Behavior as Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1802337	15.6	23

14	Activated carbons from KOH and H <sub>3</sub> PO <sub>4</sub> -activation of olive residues and its application as supercapacitor electrodes. <i>Electrochimica Acta</i> , <b>2017</b> , 229, 219-228	6.7	149
13	CH <sub>3</sub> -Tagged Bis(pyrazolato)-Based Coordination Polymers and Metal-Organic Frameworks: An Experimental and Theoretical Insight. <i>Crystal Growth and Design</i> , <b>2017</b> , 17, 3854-3867	3.5	14
12	Development of Carbon-ZrO <sub>2</sub> composites with high performance as visible-light photocatalysts. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 217, 540-550	21.8	33
11	New carbon xerogel-TiO <sub>2</sub> composites with high performance as visible-light photocatalysts for dye mineralization. <i>Applied Catalysis B: Environmental</i> , <b>2017</b> , 201, 29-40	21.8	77
10	Selective hydrogenation of citral by noble metals supported on carbon xerogels: Catalytic performance and stability. <i>Applied Catalysis A: General</i> , <b>2016</b> , 512, 63-73	5.1	15
9	Influence of the Pt-particle size on the performance of carbon supported catalysts used in the hydrogenation of citral. <i>Catalysis Communications</i> , <b>2016</b> , 82, 36-40	3.2	11
8	Chemoselective Pt-catalysts supported on carbon-TiO <sub>2</sub> composites for the direct hydrogenation of citral to unsaturated alcohols. <i>Journal of Catalysis</i> , <b>2016</b> , 344, 701-711	7.3	12
7	Influence of the pretreatment conditions on the development and performance of active sites of Pt/TiO <sub>2</sub> catalysts used for the selective citral hydrogenation. <i>Journal of Catalysis</i> , <b>2015</b> , 327, 86-95	7.3	19
6	Development of carbon xerogels as alternative Pt-supports for the selective hydrogenation of citral. <i>Catalysis Communications</i> , <b>2015</b> , 58, 64-69	3.2	19
5	Tailoring the surface chemistry and porosity of activated carbons: Evidence of reorganization and mobility of oxygenated surface groups. <i>Carbon</i> , <b>2014</b> , 68, 520-530	10.4	64
4	Microspheres of carbon xerogel: An alternative Pt-support for the selective hydrogenation of citral. <i>Applied Catalysis A: General</i> , <b>2014</b> , 482, 318-326	5.1	24
3	Tailoring activated carbons for the development of specific adsorbents of gasoline vapors. <i>Journal of Hazardous Materials</i> , <b>2013</b> , 263 Pt 2, 533-40	12.8	21
2	Catalysts Supported on Carbon Materials for the Selective Hydrogenation of Citral. <i>Catalysts</i> , <b>2013</b> , 3, 853-877	4	56
1	Design and fabrication of integral carbon monoliths combining 3D printing and sol-gel polymerization: effects of the channel morphology on the CO-PROX reaction. <i>Catalysis Science and Technology</i> ,	5.5	1