

Agustin F Perez-Cadenas

List of Publications by Year in Descending Order

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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.

109 papers	3,327 citations	33 h-index	54 g-index
115 ext. papers	3,713 ext. citations	7.6 avg, IF	5.5 L-index

#	Paper	IF	Citations
109	Freshwater production from air dehumidification using novel SiO ₂ -based supported material and solar energy: Colombia case study. <i>Energy Reports</i> , 2022 , 8, 3115-3126	4.6	0
108	From CO ₂ to Value-Added Products: A Review about Carbon-Based Materials for Electro-Chemical CO ₂ Conversion. <i>Catalysts</i> , 2021 , 11, 351	4	8
107	Monolithic carbon xerogels-metal composites for crude oil removal from oil in-saltwater emulsions and subsequent regeneration through oxidation process: Composites synthesis, adsorption studies, and oil decomposition experiments. <i>Microporous and Mesoporous Materials</i> , 2021 , 319, 111039	5.3	7
106	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> , 2021 , 178, 753-766	10.4	6
105	Carbon Microspheres with Tailored Texture and Surface Chemistry As Electrode Materials for Supercapacitors. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 541-551	8.3	2
104	Design of Self-Supported Flexible Nanostars MFe-LDH@ Carbon Xerogel-Modified Electrode for Methanol Oxidation. <i>Materials</i> , 2021 , 14,	3.5	3
103	Development of a monolithic carbon xerogel-metal composite for crude oil removal from oil in-saltwater emulsions: Evaluation of reuse cycles. <i>Microporous and Mesoporous Materials</i> , 2021 , 327, 111424	5.3	2
102	Removal of Uranium from Flowback Water of Hydraulic Fracturing Processes in Unconventional Reservoirs Using Phosphorus- and Nitrogen-Functionalized Activated Carbons. <i>Lecture Notes in Nanoscale Science and Technology</i> , 2021 , 429-444	0.3	
101	Nickel Cobaltite Functionalized Silver Doped Carbon Xerogels as Efficient Electrode Materials for High Performance Symmetric Supercapacitor. <i>Materials</i> , 2020 , 13,	3.5	7
100	Removal of emerging pollutants present in water using an E-coli biofilm supported onto activated carbons prepared from argan wastes: Adsorption studies in batch and fixed bed. <i>Science of the Total Environment</i> , 2020 , 720, 137491	10.2	13
99	Valorization of agricultural wood wastes as electrodes for electrochemical capacitors by chemical activation with H ₃ PO ₄ and KOH. <i>Wood Science and Technology</i> , 2020 , 54, 401-420	2.5	8
98	Cellulose/TiO ₂ composites for the removal of water pollutants 2020 , 329-358		4
97	Functionalized Cellulose for the Controlled Synthesis of Novel Carbon-Ti Nanocomposites: Physicochemical and Photocatalytic Properties. <i>Nanomaterials</i> , 2020 , 10,	5.4	17
96	Biomass-Derived Carbon Molecular Sieves Applied to an Enhanced Carbon Capture and Storage Process (e-CCS) for Flue Gas Streams in Shallow Reservoirs. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
95	A new platform for facile synthesis of hybrid TiO ₂ nanostructures by various functionalizations of cellulose to be used in highly-efficient photocatalysis. <i>Materials Letters</i> , 2020 , 274, 128016	3.3	3
94	Adsorption of Diclofenac from Aqueous Solution onto Carbon Xerogels: Effect of Synthesis Conditions and Presence of Bacteria. <i>Water, Air, and Soil Pollution</i> , 2020 , 231, 1	2.6	7
93	ZrO ₂ -TiO ₂ /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> , 2020 , 8, 104350	6.8	0

92	Binary and Ternary 3D Nanobundles Metal Oxides Functionalized Carbon Xerogels as Electrocatalysts toward Oxygen Reduction Reaction. <i>Materials</i> , 2020 , 13,	3.5	6
91	Bacteria Supported on Carbon-Coated Monoliths for Water Denitrification. <i>Journal of Carbon Research</i> , 2020 , 6, 77	3.3	
90	Reduction of NO with new vanadium-carbon xerogel composites. Effect of the oxidation state of vanadium species. <i>Carbon</i> , 2020 , 156, 194-204	10.4	6
89	Surface functionalization to abate the irreversible capacity of hard carbons derived from grapefruit peels for sodium-ion batteries. <i>Electrochimica Acta</i> , 2019 , 326, 134973	6.7	16
88	From Polyethylene to Highly Graphitic and Magnetic Carbon Spheres Nanocomposites: Carbonization under Pressure. <i>Nanomaterials</i> , 2019 , 9,	5.4	5
87	The use of functionalized carbon xerogels in cells growth. <i>Materials Science and Engineering C</i> , 2019 , 100, 598-607	8.3	6
86	Effect of Magnetic Iron Core/Carbon Shell Nanoparticles in Chemical Enhanced Oil Recovery for Ultralow Interfacial Tension Region. <i>Energy & Fuels</i> , 2019 , 33, 4158-4168	4.1	25
85	Influence of Surface Chemistry on the Electrochemical Performance of Biomass-Derived Carbon Electrodes for its Use as Supercapacitors. <i>Materials</i> , 2019 , 12,	3.5	4
84	Mesoporous carbon nanospheres with improved conductivity for electro-catalytic reduction of O ₂ and CO ₂ . <i>Carbon</i> , 2019 , 155, 88-99	10.4	13
83	Carbon Xerogels Hydrothermally Doped with Bimetal Oxides for Oxygen Reduction Reaction. <i>Materials</i> , 2019 , 12,	3.5	6
82	An Enhanced Carbon Capture and Storage Process (e-CCS) Applied to Shallow Reservoirs Using Nanofluids Based on Nitrogen-Rich Carbon Nanospheres. <i>Materials</i> , 2019 , 12,	3.5	4
81	Heteroatom-doped graphene aerogels and carbon-magnetite catalysts for the heterogeneous electro-Fenton degradation of acetaminophen in aqueous solution. <i>Journal of Catalysis</i> , 2019 , 378, 68-79	7.3	21
80	Synthesis of Ti _x O _y nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. <i>Applied Catalysis B: Environmental</i> , 2019 , 241, 385-392	21.8	47
79	Carbon-vanadium composites as non-precious catalysts for electro-reduction of oxygen. <i>Carbon</i> , 2019 , 144, 289-300	10.4	9
78	Activated carbons from agricultural waste solvothermally doped with sulphur as electrodes for supercapacitors. <i>Chemical Engineering Journal</i> , 2018 , 334, 1835-1841	14.7	65
77	Carbon - iron electro-catalysts for CO ₂ reduction. The role of the iron particle size. <i>Journal of CO₂ Utilization</i> , 2018 , 24, 240-249	7.6	15
76	Resorcinol-formaldehyde carbon xerogel as selective adsorbent of carbon dioxide present on biogas. <i>Adsorption</i> , 2018 , 24, 169-177	2.6	9
75	Developing strategies for the preparation of Co-carbon catalysts involved in the free solvent selective synthesis of aza-heterocycles. <i>Molecular Catalysis</i> , 2018 , 445, 223-231	3.3	7

74	Influence of surfactants on the physicochemical properties and catalytic behaviour of Mo-doped carbon xerogels. <i>Catalysis Today</i> , 2018 , 301, 217-225	5.3	7
73	Physicochemical properties of new cellulose-TiO ₂ composites for the removal of water pollutants: Developing specific interactions and performances by cellulose functionalization. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 5032-5041	6.8	40
72	Metal-Carbon-CNF Composites Obtained by Catalytic Pyrolysis of Urban Plastic Residues as Electro-Catalysts for the Reduction of CO ₂ . <i>Catalysts</i> , 2018 , 8, 198	4	2
71	Electrodes Based on Carbon Aerogels Partially Graphitized by Doping with Transition Metals for Oxygen Reduction Reaction. <i>Nanomaterials</i> , 2018 , 8,	5.4	19
70	Fitting the experimental conditions and characteristics of Pt/C catalyst for the selective hydrogenation of citral. <i>Chemical Engineering Communications</i> , 2018 , 205, 1299-1310	2.2	1
69	Insight of the effect of graphitic cluster in the performance of carbon aerogels doped with nickel as electrodes for supercapacitors. <i>Carbon</i> , 2018 , 139, 888-895	10.4	17
68	Carbon/TiO ₂ composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 633-644	13	63
67	Electrochemical performances of supercapacitors from carbon-ZrO ₂ composites. <i>Electrochimica Acta</i> , 2018 , 259, 803-814	6.7	26
66	On the Interactions and Synergism between Phases of Carbon/Phosphorus/Titanium Composites Synthesized from Cellulose for the Removal of the Orange-G Dye. <i>Materials</i> , 2018 , 11,	3.5	20
65	From Carbon Molecular Sieves to VOCs filters: Carbon gels with tailored porosity for hexane isomers adsorption and separation. <i>Microporous and Mesoporous Materials</i> , 2018 , 270, 161-167	5.3	9
64	Development of Vanadium-Coated Carbon Microspheres: Electrochemical Behavior as Electrodes for Supercapacitors. <i>Advanced Functional Materials</i> , 2018 , 28, 1802337	15.6	23
63	Activated carbons from KOH and H ₃ PO ₄ -activation of olive residues and its application as supercapacitor electrodes. <i>Electrochimica Acta</i> , 2017 , 229, 219-228	6.7	149
62	Biogas upgrading by selective adsorption onto CO ₂ activated carbon from wood pellets. <i>Journal of Environmental Chemical Engineering</i> , 2017 , 5, 1386-1393	6.8	29
61	Development of Carbon-ZrO ₂ composites with high performance as visible-light photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2017 , 217, 540-550	21.8	33
60	New carbon xerogel-TiO ₂ composites with high performance as visible-light photocatalysts for dye mineralization. <i>Applied Catalysis B: Environmental</i> , 2017 , 201, 29-40	21.8	77
59	Cobalt-Doped Carbon Gels as Electro-Catalysts for the Reduction of CO ₂ to Hydrocarbons. <i>Catalysts</i> , 2017 , 7, 25	4	22
58	Selective hydrogenation of citral by noble metals supported on carbon xerogels: Catalytic performance and stability. <i>Applied Catalysis A: General</i> , 2016 , 512, 63-73	5.1	15
57	Influence of the Pt-particle size on the performance of carbon supported catalysts used in the hydrogenation of citral. <i>Catalysis Communications</i> , 2016 , 82, 36-40	3.2	11

56	Chemoselective Pt-catalysts supported on carbon-TiO ₂ composites for the direct hydrogenation of citral to unsaturated alcohols. <i>Journal of Catalysis</i> , 2016 , 344, 701-711	7.3	12
55	Free metal oxygen-reduction electro-catalysts obtained from biomass residue of the olive oil industry. <i>Chemical Engineering Journal</i> , 2016 , 306, 1109-1115	14.7	25
54	Fitting the porosity of carbon xerogel by CO ₂ activation to improve the TMP/n-octane separation. <i>Microporous and Mesoporous Materials</i> , 2015 , 209, 10-17	5.3	15
53	Influence of the pretreatment conditions on the development and performance of active sites of Pt/TiO ₂ catalysts used for the selective citral hydrogenation. <i>Journal of Catalysis</i> , 2015 , 327, 86-95	7.3	19
52	Influence of the physicochemical properties of inorganic supports on the activity of immobilized bacteria for water denitrification. <i>Journal of Environmental Management</i> , 2015 , 156, 81-8	7.9	9
51	Mesoporous carbon-xerogels films obtained by microwave assisted carbonization. <i>Materials Letters</i> , 2015 , 141, 135-137	3.3	3
50	Bacteria supported on carbon films for water denitrification. <i>Chemical Engineering Journal</i> , 2015 , 259, 424-429	14.7	14
49	Development of carbon xerogels as alternative Pt-supports for the selective hydrogenation of citral. <i>Catalysis Communications</i> , 2015 , 58, 64-69	3.2	19
48	Coupling Noble Metals and Carbon Supports in the Development of Combustion Catalysts for the Abatement of BTX Compounds in Air Streams. <i>Catalysts</i> , 2015 , 5, 774-799	4	20
47	About the control of VOCs emissions from blended fuels by developing specific adsorbents using agricultural residues. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 2662-2669	6.8	3
46	Tailoring the surface chemistry and porosity of activated carbons: Evidence of reorganization and mobility of oxygenated surface groups. <i>Carbon</i> , 2014 , 68, 520-530	10.4	64
45	Microspheres of carbon xerogel: An alternative Pt-support for the selective hydrogenation of citral. <i>Applied Catalysis A: General</i> , 2014 , 482, 318-326	5.1	24
44	Tailoring activated carbons for the development of specific adsorbents of gasoline vapors. <i>Journal of Hazardous Materials</i> , 2013 , 263 Pt 2, 533-40	12.8	21
43	Chemical control of the characteristics of Mo-doped carbon xerogels by surfactant-mediated synthesis. <i>Carbon</i> , 2013 , 51, 213-223	10.4	18
42	Metal-doped carbon xerogels for the electro-catalytic conversion of CO ₂ to hydrocarbons. <i>Carbon</i> , 2013 , 56, 324-331	10.4	46
41	Catalysts Supported on Carbon Materials for the Selective Hydrogenation of Citral. <i>Catalysts</i> , 2013 , 3, 853-877	4	56
40	Water sorption on silica- and zeolite-supported hygroscopic salts for cooling system applications. <i>Energy Conversion and Management</i> , 2012 , 53, 219-223	10.6	53
39	Structural characterization of carbon xerogels: From film to monolith. <i>Microporous and Mesoporous Materials</i> , 2012 , 153, 24-29	5.3	25

38	On the micro- and mesoporosity of carbon aerogels and xerogels. The role of the drying conditions during the synthesis processes. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 851-855	14.7	46
37	Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde. <i>Applied Catalysis A: General</i> , 2012 , 425-426, 161-169	5.1	34
36	Pt-catalysts supported on activated carbons for catalytic wet air oxidation of aniline: Activity and stability. <i>Applied Catalysis B: Environmental</i> , 2011 , 105, 86-94	21.8	33
35	Textural and mechanical characteristics of carbon aerogels synthesized by polymerization of resorcinol and formaldehyde using alkali carbonates as basification agents. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 10365-72	3.6	41
34	Carbon-Based Honeycomb Monoliths for Environmental Gas-Phase Applications. <i>Materials</i> , 2010 , 3, 1203-1227	3.5	43
33	Design of low-temperature Pt-carbon combustion catalysts for VOC's treatments. <i>Journal of Hazardous Materials</i> , 2010 , 183, 814-22	12.8	69
32	Water adsorption on zeolite 13X: comparison of the two methods based on mass spectrometry and thermogravimetry. <i>Adsorption</i> , 2010 , 16, 141-146	2.6	42
31	Wet air oxidation of trinitrophenol with activated carbon catalysts: Effect of textural properties on the mechanism of degradation. <i>Applied Catalysis B: Environmental</i> , 2010 , 100, 310-317	21.8	27
30	Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of BTX. <i>Applied Catalysis B: Environmental</i> , 2009 , 89, 411-419	21.8	59
29	Carbon-based monoliths for the catalytic elimination of benzene, toluene and m-xylene. <i>Applied Catalysis A: General</i> , 2009 , 366, 282-287	5.1	12
28	Fenton-like degradation of azo-dye Orange II catalyzed by transition metals on carbon aerogels. <i>Applied Catalysis B: Environmental</i> , 2009 , 85, 139-147	21.8	166
27	Surface chemistry, porous texture, and morphology of N-doped carbon xerogels. <i>Langmuir</i> , 2009 , 25, 466-70	4	78
26	Synthesis and properties of phloroglucinol-phenol-formaldehyde carbon aerogels and xerogels. <i>Langmuir</i> , 2009 , 25, 2461-6	4	39
25	Development of carbon coatings for cordierite foams: an alternative to cordierite honeycombs. <i>Langmuir</i> , 2008 , 24, 3267-73	4	15
24	Carbon-based monolithic supports for palladium catalysts: The role of the porosity in the gas-phase total combustion of m-xylene. <i>Applied Catalysis B: Environmental</i> , 2008 , 77, 272-277	21.8	31
23	Tuning the morphology of monolith coatings. <i>Applied Catalysis A: General</i> , 2007 , 319, 267-271	5.1	23
22	Selective hydrogenation of fatty acid methyl esters over palladium on carbon-based monoliths. <i>Catalysis Today</i> , 2007 , 128, 13-17	5.3	45
21	Reversible toluene adsorption on monolithic carbon aerogels. <i>Journal of Hazardous Materials</i> , 2007 , 148, 548-52	12.8	67

20	Azo-dye Orange II degradation by heterogeneous Fenton-like reaction using carbon-Fe catalysts. <i>Applied Catalysis B: Environmental</i> , 2007 , 75, 312-323	21.8	432
19	Preparation of Monolithic Catalysts for Hydrodesulfurization. <i>Studies in Surface Science and Catalysis</i> , 2006 , 143-150	1.8	4
18	Selective hydrogenation of fatty acid methyl esters on palladium catalysts supported on carbon-coated monoliths. <i>Carbon</i> , 2006 , 44, 173-176	10.4	24
17	Pd and Pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes. <i>Carbon</i> , 2006 , 44, 2463-2468	10.4	41
16	Molybdenum carbide formation in molybdenum-doped organic and carbon aerogels. <i>Langmuir</i> , 2005 , 21, 10850-5	4	27
15	High performance monolithic catalysts for hydrogenation reactions. <i>Catalysis Today</i> , 2005 , 105, 623-628	5.3	54
14	Catalytic combustion of toluene on platinum-containing monolithic carbon aerogels. <i>Applied Catalysis B: Environmental</i> , 2004 , 54, 217-224	21.8	87
13	Surface morphology, metal dispersion, and pore texture of transition metal-doped monolithic carbon aerogels and steam-activated derivatives. <i>Microporous and Mesoporous Materials</i> , 2004 , 69, 119-123	5.3	66
12	Tungsten oxide catalysts supported on activated carbons: effect of tungsten precursor and pretreatment on dispersion, distribution, and surface acidity of catalysts. <i>Journal of Catalysis</i> , 2003 , 217, 30-37	7.3	39
11	On the nature of surface acid sites of chlorinated activated carbons. <i>Carbon</i> , 2003 , 41, 473-478	10.4	113
10	Influence of carbon-oxygen surface complexes on the surface acidity of tungsten oxide catalysts supported on activated carbons. <i>Carbon</i> , 2003 , 41, 1157-1167	10.4	38
9	Skeletal isomerization of 1-butene on tungsten oxide catalysts supported on activated carbons with various surface oxygen contents. <i>Carbon</i> , 2003 , 41, 863-866	10.4	5
8	Morphology of heat-treated tungsten doped monolithic carbon aerogels. <i>Carbon</i> , 2003 , 41, 1291-1299	10.4	33
7	Physicochemical Surface Properties of Fe, Co, Ni, and Cu-Doped Monolithic Organic Aerogels. <i>Langmuir</i> , 2003 , 19, 5650-5655	4	90
6	Influence of Carbon-Chlorine Surface Complexes on the Properties of Tungsten Oxide Supported on Activated Carbons. 1. Dispersion, Distribution, and Chemical Nature of the Metal Oxide Phase. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 4997-5002	3.4	3
5	Influence of Carbon-Chlorine Surface Complexes on the Properties of Tungsten Oxide Supported on Activated Carbons. 2. Surface Acidity and Skeletal Isomerization of 1-Butene. <i>Journal of Physical Chemistry B</i> , 2003 , 107, 5003-5007	3.4	4
4	The reactivity of N-2-(4-amino-1,6-dihydro-1-methyl-5-nitroso-6-oxo-pyrimidinyl)-L-histidine towards silver(I) and zinc(II) ions. <i>Transition Metal Chemistry</i> , 2002 , 27, 184-190	2.1	7
3	The reactivity of N-2-(4-amino-1,6-dihydro-1-methyl-5-nitroso-6-oxopyrimidinyl)-L-histidine towards copper(II) ions. <i>Transition Metal Chemistry</i> , 2001 , 26, 581-587	2.1	7

2	Solution study and 2-D layered structures of zinc(II) and cadmium(II) complexes with N-2-(6-amino-3,4-dihydro-3-methyl-5-nitroso-4-oxopyrimidinyl)-l-methionine as ligand. <i>Inorganica Chimica Acta</i> , 2000 , 308, 59-64	2.7	13
1	Insights into the Morphology Effect of Ceria on the Catalytic Performance of NiO/BdO/CeO ₂ Nanoparticles for Thermo-oxidation of n-C ₇ Asphaltenes under Isothermal Heating at Different Pressures. <i>Energy & Fuels</i> ,	4.1	3