Agustin F Perez-Cadenas

List of Publications by Year
in descending order

112 papers	4,158 citations	101535 36 h-index	128286 60 g-index
115 all docs	115 docs citations	115 times ranked	4803 citing authors

#	Article	IF	Citations
1	Azo-dye Orange II degradation by heterogeneous Fenton-like reaction using carbon-Fe catalysts. Applied Catalysis B: Environmental, 2007, 75, 312-323.	20.2	486
2	Activated carbons from KOH and H 3 PO 4 -activation of olive residues and its application as supercapacitor electrodes. Electrochimica Acta, 2017, 229, 219-228.	5.2	221
3	Fenton-like degradation of azo-dye Orange II catalyzed by transition metals on carbon aerogels. Applied Catalysis B: Environmental, 2009, 85, 139-147.	20.2	178
4	On the nature of surface acid sites of chlorinated activated carbons. Carbon, 2003, 41, 473-478.	10.3	124
5	Physicochemical Surface Properties of Fe, Co, Ni, and Cu-Doped Monolithic Organic Aerogels. Langmuir, 2003, 19, 5650-5655.	3.5	100
6	Carbonâ€“TiO₂ composites as high-performance supercapacitor electrodes: synergistic effect between carbon and metal oxide phases. Journal of Materials Chemistry A, 2018, 6, 633-644.	10.3	99
7	Catalytic combustion of toluene on platinum-containing monolithic carbon aerogels. Applied Catalysis B: Environmental, 2004, 54, 217-224.	20.2	96
8	Surface Chemistry, Porous Texture, and Morphology of N-Doped Carbon Xerogels. Langmuir, 2009, 25, 466-470.	3.5	93
9	New carbon xerogel-TiO2 composites with high performance as visible-light photocatalysts for dye mineralization. Applied Catalysis B: Environmental, 2017, 201, 29-40.	20.2	92
10	Activated carbons from agricultural waste solvothermally doped with sulphur as electrodes for supercapacitors. Chemical Engineering Journal, 2018, 334, 1835-1841.	12.7	84
11	Surface morphology, metal dispersion, and pore texture of transition metal-doped monolithic carbon aerogels and steam-activated derivatives. Microporous and Mesoporous Materials, 2004, 69, 119-125.	4.4	80
12	Reversible toluene adsorption on monolithic carbon aerogels. Journal of Hazardous Materials, 2007, 148, 548-552.	12.4	76
13	Design of low-temperature Pt-carbon combustion catalysts for VOC's treatments. Journal of Hazardous Materials, 2010, 183, 814-822.	12.4	75
14	Tailoring the surface chemistry and porosity of activated carbons: Evidence of reorganization and mobility of oxygenated surface groups. Carbon, 2014, 68, 520-530.	10.3	71
15	Catalysts Supported on Carbon Materials for the Selective Hydrogenation of Citral. Catalysts, 2013, 3, 853-877.	3.5	70
16	Palladium and platinum catalysts supported on carbon nanofiber coated monoliths for low-temperature combustion of BTX. Applied Catalysis B: Environmental, 2009, 89, 411-419.	20.2	66
17	Water sorption on silica- and zeolite-supported hygroscopic salts for cooling system applications. Energy Conversion and Management, 2012, 53, 219-223.	9.2	64
18	Synthesis of TixOy nanocrystals in mild synthesis conditions for the degradation of pollutants under solar light. Applied Catalysis B: Environmental, 2019, 241, 385-392.	20.2	61

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19	High performance monolithic catalysts for hydrogenation reactions. Catalysis Today, 2005, 105, 623-628.	4.4	58
20	Metal-doped carbon xerogels for the electro-catalytic conversion of CO2 to hydrocarbons. Carbon, 2013, 56, 324-331.	10.3	56
21	Carbon-Based Honeycomb Monoliths for Environmental Gas-Phase Applications. Materials, 2010, 3, 1203-1227.	2.9	52
22	On the micro- and mesoporosity of carbon aerogels and xerogels. The role of the drying conditions during the synthesis processes. Chemical Engineering Journal, 2012, 181-182, 851-855.	12.7	52
23	Physicochemical properties of new cellulose-TiO2 composites for the removal of water pollutants: Developing specific interactions and performances by cellulose functionalization. Journal of Environmental Chemical Engineering, 2018, 6, 5032-5041.	6.7	52
24	Pd and Pt catalysts supported on carbon-coated monoliths for low-temperature combustion of xylenes. Carbon, 2006, 44, 2463-2468.	10.3	48
25	Selective hydrogenation of fatty acid methyl esters over palladium on carbon-based monoliths. Catalysis Today, 2007, 128, 13-17.	4.4	47
26	Water adsorption on zeolite 13X: comparison of the two methods based on mass spectrometry and thermogravimetry. Adsorption, 2010, 16, 141-146.	3.0	47
27	Synthesis and Properties of Phloroglucinolâ^'Phenolâ^'Formaldehyde Carbon Aerogels and Xerogels. Langmuir, 2009, 25, 2461-2466.	3.5	46
28	Textural and mechanical characteristics of carbon aerogels synthesized by polymerization of resorcinol and formaldehyde using alkali carbonates as basification agents. Physical Chemistry Chemical Physics, 2010, 12, 10365.	2.8	46
29	Tungsten oxide catalysts supported on activated carbons: effect ofBtungsten precursor and pretreatment on dispersion, distribution, andBsurface acidity of catalysts. Journal of Catalysis, 2003, 217, 30-37.	6.2	44
30	Development of Carbon-ZrO2 composites with high performance as visible-light photocatalysts. Applied Catalysis B: Environmental, 2017, 217, 540-550.	20.2	44
31	Influence of carbonâ€“oxygen surface complexes on the surface acidity of tungsten oxide catalysts supported on activated carbons. Carbon, 2003, 41, 1157-1167.	10.3	43
32	Biogas upgrading by selective adsorption onto CO 2 activated carbon from wood pellets. Journal of Environmental Chemical Engineering, 2017, 5, 1386-1393.	6.7	41
33	Electrochemical performances of supercapacitors from carbon-ZrO2 composites. Electrochimica Acta, 2018, 259, 803-814.	5.2	41
34	Morphology of heat-treated tunsgten doped monolithic carbon aerogels. Carbon, 2003, 41, 1291-1299.	10.3	39
35	Pt-catalysts supported on activated carbons for catalytic wet air oxidation of aniline: Activity and stability. Applied Catalysis B: Environmental, 2011, 105, 86-94.	20.2	37
36	Preparation of carbon aerogel supported platinum catalysts for the selective hydrogenation of cinnamaldehyde. Applied Catalysis A: General, 2012, 425-426, 161-169.	4.3	36

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37	Carbon-based monolithic supports for palladium catalysts: The role of the porosity in the gas-phase total combustion of m-xylene. Applied Catalysis B: Environmental, 2008, 77, 272-277.	20.2	35
38	Effect of Magnetic Iron Coreâ€“Carbon Shell Nanoparticles in Chemical Enhanced Oil Recovery for Ultralow Interfacial Tension Region. Energy & Fuels, 2019, 33, 4158-4168.	5.1	34
39	Development of Vanadiumâ€Coated Carbon Microspheres: Electrochemical Behavior as Electrodes for Supercapacitors. Advanced Functional Materials, 2018, 28, 1802337.	14.9	33
40	Heteroatom-doped graphene aerogels and carbon-magnetite catalysts for the heterogeneous electro-Fenton degradation of acetaminophen in aqueous solution. Journal of Catalysis, 2019, 378, 68-79.	6.2	33
41	Functionalized Cellulose for the Controlled Synthesis of Novel Carbonâ€“Ti Nanocomposites: Physicochemical and Photocatalytic Properties. Nanomaterials, 2020, 10, 729.	4.1	33
42	From CO2 to Value-Added Products: A Review about Carbon-Based Materials for Electro-Chemical CO2 Conversion. Catalysts, 2021, 11, 351.	3.5	33
43	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. Science of the Total Environment, 2020, 720, 137491.	8.0	31
44	Molybdenum Carbide Formation in Molybdenum-Doped Organic and Carbon Aerogels. Langmuir, 2005, 21, 10850-10855.	3.5	30
45	Structural characterization of carbon xerogels: From film to monolith. Microporous and Mesoporous Materials, 2012, 153, 24-29.	4.4	30
46	Free metal oxygen-reduction electro-catalysts obtained from biomass residue of the olive oil industry. Chemical Engineering Journal, 2016, 306, 1109-1115.	12.7	30
47	Surface functionalization to abate the irreversible capacity of hard carbons derived from grapefruit peels for sodium-ion batteries. Electrochimica Acta, 2019, 326, 134973.	5.2	30
48	Wet air oxidation of trinitrophenol with activated carbon catalysts: Effect of textural properties on the mechanism of degradation. Applied Catalysis B: Environmental, 2010, 100, 310-317.	20.2	29
49	Selective hydrogenation of fatty acid methyl esters on palladium catalysts supported on carbon-coated monoliths. Carbon, 2006, 44, 173-176.	10.3	28
50	Tailoring activated carbons for the development of specific adsorbents of gasoline vapors. Journal of Hazardous Materials, 2013, 263, 533-540.	12.4	28
51	Electrodes Based on Carbon Aerogels Partially Graphitized by Doping with Transition Metals for Oxygen Reduction Reaction. Nanomaterials, 2018, 8, 266.	4.1	28
52	Microspheres of carbon xerogel: An alternative Pt-support for the selective hydrogenation of citral. Applied Catalysis A: General, 2014, 482, 318-326.	4.3	27
53	On the Interactions and Synergism between Phases of Carbonâ€“Phosphorusâ€“Titanium Composites Synthetized from Cellulose for the Removal of the Orange-G Dye. Materials, 2018, 11, 1766.	2.9	27
54	Cobalt-Doped Carbon Gels as Electro-Catalysts for the Reduction of CO2 to Hydrocarbons. Catalysts, 2017, 7, 25.	3.5	26

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55	Coupling Noble Metals and Carbon Supports in the Development of Combustion Catalysts for the Abatement of BTX Compounds in Air Streams. Catalysts, 2015, 5, 774-799.	3.5	25
56	Tuning the morphology of monolith coatings. Applied Catalysis A: General, 2007, 319, 267-271.	4.3	24
57	Influence of the pretreatment conditions on the development and performance of active sites of Pt/TiO2 catalysts used for the selective citral hydrogenation. Journal of Catalysis, 2015, 327, 86-95.	6.2	23
58	Insight of the effect of graphitic cluster in the performance of carbon aerogels doped with nickel as electrodes for supercapacitors. Carbon, 2018, 139, 888-895.	10.3	23
59	Selective hydrogenation of citral by noble metals supported on carbon xerogels: Catalytic performance and stability. Applied Catalysis A: General, 2016, 512, 63-73.	4.3	22
60	Carbon - iron electro-catalysts for CO2 reduction. The role of the iron particle size. Journal of CO2 Utilization, 2018, 24, 240-249.	6.8	21
61	Development of carbon xerogels as alternative Pt-supports for the selective hydrogenation of citral. Catalysis Communications, 2015, 58, 64-69.	3.3	20
62	Nickel Cobaltite Functionalized Silver Doped Carbon Xerogels as Efficient Electrode Materials for High Performance Symmetric Supercapacitor. Materials, 2020, 13, 4906.	2.9	20
63	Development of Carbon Coatings for Cordierite Foams:â€‰ An Alternative to Cordierite Honeycombs. Langmuir, 2008, 24, 3267-3273.	3.5	18
64	Chemical control of the characteristics of Mo-doped carbon xerogels by surfactant-mediated synthesis. Carbon, 2013, 51, 213-223.	10.3	18
65	Fitting the porosity of carbon xerogel by CO2 activation to improve the TMP/n-octane separation. Microporous and Mesoporous Materials, 2015, 209, 10-17.	4.4	17
66	Bacteria supported on carbon films for water denitrification. Chemical Engineering Journal, 2015, 259, 424-429.	12.7	17
67	Mesoporous carbon nanospheres with improved conductivity for electro-catalytic reduction of O2 and CO2. Carbon, 2019, 155, 88-99.	10.3	17
68	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. Inorganica Chimica Acta, 2000, 308, 59-64.	2.4	16
69	Chemoselective Pt-catalysts supported on carbon-TiO2 composites for the direct hydrogenation of citral to unsaturated alcohols. Journal of Catalysis, 2016, 344, 701-711.	6.2	16
70	Adsorption of Diclofenac from Aqueous Solution onto Carbon Xerogels: Effect of Synthesis Conditions and Presence of Bacteria. Water, Air, and Soil Pollution, 2020, 231, 1.	2.4	16
71	Valorization of agricultural wood wastes as electrodes for electrochemical capacitors by chemical activation with H3PO4 and KOH. Wood Science and Technology, 2020, 54, 401-420.	3.2	16
72	Carbon-vanadium composites as non-precious catalysts for electro-reduction of oxygen. Carbon, 2019, 144, 289-300.	10.3	15

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73	Activated carbon-based coloured titania nanoparticles with high visible radiation absorption and excellent photoactivity in the degradation of emerging drugs of wastewater. Carbon, 2021, 178, 753-766.	10.3	15
74	Carbon-based monoliths for the catalytic elimination of benzene, toluene and m-xylene. Applied Catalysis A: General, 2009, 366, 282-287.	4.3	14
75	Influence of the Pt-particle size on the performance of carbon supported catalysts used in the hydrogenation of citral. Catalysis Communications, 2016, 82, 36-40.	3.3	13
76	From Carbon Molecular Sieves to VOCs filters: Carbon gels with tailored porosity for hexane isomers adsorption and separation. Microporous and Mesoporous Materials, 2018, 270, 161-167.	4.4	13
77	Resorcinolâ€“formaldehyde carbon xerogel as selective adsorbent of carbon dioxide present on biogas. Adsorption, 2018, 24, 169-177.	3.0	12
78	Carbon Xerogels Hydrothermally Doped with Bimetal Oxides for Oxygen Reduction Reaction. Materials, 2019, 12, 2446.	2.9	12
79	Insights into the Morphology Effect of Ceria on the Catalytic Performance of NiOâ€“PdO/CeO₂ Nanoparticles for Thermo-oxidation of n-C₇ Asphaltenes under Isothermal Heating at Different Pressures. Energy & Fuels, 2021, 35, 18170-18184.	5.1	12
80	Influence of the physicochemical properties of inorganic supports on the activity of immobilized bacteria for water denitrification. Journal of Environmental Management, 2015, 156, 81-88.	7.8	11
81	An Enhanced Carbon Capture and Storage Process (e-CCS) Applied to Shallow Reservoirs Using Nanofluids Based on Nitrogen-Rich Carbon Nanospheres. Materials, 2019, 12, 2088.	2.9	11
82	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. Microporous and Mesoporous Materials, 2021, 319, 111039.	4.4	11
83	Developing strategies for the preparation of Co-carbon catalysts involved in the free solvent selective synthesis of aza-heterocycles. Molecular Catalysis, 2018, 445, 223-231.	2.0	10
84	Influence of Surface Chemistry on the Electrochemical Performance of Biomass-Derived Carbon Electrodes for its Use as Supercapacitors. Materials, 2019, 12, 2458.	2.9	10
85	The use of functionalized carbon xerogels in cells growth. Materials Science and Engineering C, 2019, 100, 598-607.	7.3	10
86	Binary and Ternary 3D Nanobundles Metal Oxides Functionalized Carbon Xerogels as Electrocatalysts toward Oxygen Reduction Reaction. Materials, 2020, 13, 3531.	2.9	10
87	Biomass-Derived Carbon Molecular Sieves Applied to an Enhanced Carbon Capture and Storage Process (e-CCS) for Flue Gas Streams in Shallow Reservoirs. Nanomaterials, 2020, 10, 980.	4.1	10
88	Reduction of NO with new vanadium-carbon xerogel composites. Effect of the oxidation state of vanadium species. Carbon, 2020, 156, 194-204.	10.3	9
89	Title is missing!. Transition Metal Chemistry, 2001, 26, 581-587.	1.4	8
90	Influence of surfactants on the physicochemical properties and catalytic behaviour of Mo-doped carbon xerogels. Catalysis Today, 2018, 301, 217-225.	4.4	8

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91	Element-Doped Functional Carbon-Based Materials. Materials, 2020, 13, 333.	2.9	8
92	Celluloseâ€“TiO2 composites for the removal of water pollutants. , 2020, , 329-358.		8
93	Design of Self-Supported Flexible Nanostars MFe-LDH@ Carbon Xerogel-Modified Electrode for Methanol Oxidation. Materials, 2021, 14, 5271.	2.9	8
94	Title is missing!. Transition Metal Chemistry, 2002, 27, 184-190.	1.4	7
95	Skeletal isomerization of 1-butene on tungsten oxide catalysts supported on activated carbons with various surface oxygen contents. Carbon, 2003, 41, 863-866.	10.3	7
96	Influence of Carbonâ^'Chlorine Surface Complexes on the Properties of Tungsten Oxide Supported on Activated Carbons. 2. Surface Acidity and Skeletal Isomerization of 1-Butene. Journal of Physical Chemistry B, 2003, 107, 5003-5007.	2.6	6
97	Mesoporous carbon-xerogels films obtained by microwave assisted carbonization. Materials Letters, 2015, 141, 135-137.	2.6	6
98	From Polyethylene to Highly Graphitic and Magnetic Carbon Spheres Nanocomposites: Carbonization under Pressure. Nanomaterials, 2019, 9, 606.	4.1	6
99	Development of a monolithic carbon xerogel-metal composite for crude oil removal from oil in-saltwater emulsions: Evaluation of reuse cycles. Microporous and Mesoporous Materials, 2021, 327, 111424.	4.4	6
100	Preparation of Monolithic Catalysts for Hydrodesulfurization. Studies in Surface Science and Catalysis, 2006, , 143-150.	1.5	5
101	Metal-Carbon-CNF Composites Obtained by Catalytic Pyrolysis of Urban Plastic Residues as Electro-Catalysts for the Reduction of CO2. Catalysts, 2018, 8, 198.	3.5	5
102	ZrO2-TiO2/Carbon core-shell composites as highly efficient solar-driven photo-catalysts: An approach for removal of hazardous water pollutants. Journal of Environmental Chemical Engineering, 2020, 8, 104350.	6.7	5
103	Carbon Microspheres with Tailored Texture and Surface Chemistry As Electrode Materials for Supercapacitors. ACS Sustainable Chemistry and Engineering, 2021, 9, 541-551.	6.7	5
104	A new platform for facile synthesis of hybrid TiO2 nanostructures by various functionalizations of cellulose to be used in highly-efficient photocatalysis. Materials Letters, 2020, 274, 128016.	2.6	5
105	Influence of Carbonâ^'Chlorine Surface Complexes on the Properties of Tungsten Oxide Supported on Activated Carbons. 1. Dispersion, Distribution, and Chemical Nature of the Metal Oxide Phase. Journal of Physical Chemistry B, 2003, 107, 4997-5002.	2.6	4
106	About the control of VOCâ€™s emissions from blended fuels by developing specific adsorbents using agricultural residues. Journal of Environmental Chemical Engineering, 2015, 3, 2662-2669.	6.7	4
107	Recycling and valorization of LDPE: direct transformation into highly ordered doped-carbon materials and their application as electro-catalysts for the oxygen reduction reaction. Catalysis Science and Technology, 0, , .	4.1	3
108	Synthesis of Magnetic Adsorbents Based Carbon Highly Efficient and Stable for Use in the Removal of Pb(II) and Cd(II) in Aqueous Solution. Materials, 2021, 14, 6134.	2.9	2

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109	Freshwater production from air dehumidification using novel SiO<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e378" altimg="si7.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>-based supported material and solar energy: Colombia case study. Energy Reports, 2022, 8, 3115-3126.	5.1	2
110	Growing Tungsten Nanophases on Carbon Spheres Doped with Nitrogen. Behaviour as Electro-Catalysts for Oxygen Reduction Reaction. Materials, 2021, 14, 7716.	2.9	2
111	Fitting the experimental conditions and characteristics of Pt/C catalyst for the selective hydrogenation of citral. Chemical Engineering Communications, 2018, 205, 1299-1310.	2.6	1
112	Bacteria Supported on Carbon-Coated Monoliths for Water Denitrification. Journal of Carbon Research, 2020, 6, 77.	2.7	0