Marta Sevilla

List of Publications by Citations

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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.

121 papers	15,273 citations	60 h-index	123 g-index
126 ext. papers	16,946 ext. citations	10 avg, IF	7.37 L-index

#	Paper	IF	Citations
121	The production of carbon materials by hydrothermal carbonization of cellulose. *Carbon*, **2009**, 47, 2281-2289	4.8	1270
120	Energy storage applications of activated carbons: supercapacitors and hydrogen storage. *Energy and Environmental Science*, **2014**, 7, 1250-1280	35.4	987
119	Chemical and structural properties of carbonaceous products obtained by hydrothermal carbonization of saccharides. *Chemistry - A European Journal*, **2009**, 15, 4195-203	4.8	986
118	Sustainable porous carbons with a superior performance for CO2 capture. *Energy and Environmental Science*, **2011**, 4, 1765	35.4	749
117	N-Doped Polypyrrole-Based Porous Carbons for CO2 Capture. *Advanced Functional Materials*, **2011**, 21, 2781-2787	15.6	749
116	Black perspectives for a green future: hydrothermal carbons for environment protection and energy storage. *Energy and Environmental Science*, **2012**, 5, 6796	35.4	631
115	Direct synthesis of highly porous interconnected carbon nanosheets and their application as high-performance supercapacitors. *ACS Nano*, **2014**, 8, 5069-78	16.7	540
114	Hydrothermal Carbonization of Abundant Renewable Natural Organic Chemicals for High-Performance Supercapacitor Electrodes. *Advanced Energy Materials*, **2011**, 1, 356-361	21.8	470
113	Catalytic graphitization of templated mesoporous carbons. *Carbon*, **2006**, 44, 468-474	10.4	380
112	Polypyrrole-Derived Activated Carbons for High-Performance Electrical Double-Layer Capacitors with Ionic Liquid Electrolyte. *Advanced Functional Materials*, **2012**, 22, 827-834	15.6	359
111	Fe-N-Doped Carbon Capsules with Outstanding Electrochemical Performance and Stability for the Oxygen Reduction Reaction in Both Acid and Alkaline Conditions. *ACS Nano*, **2016**, 10, 5922-32	16.7	345
110	High density hydrogen storage in superactivated carbons from hydrothermally carbonized renewable organic materials. *Energy and Environmental Science*, **2011**, 4, 1400	35.4	339
109	Assessment of the role of micropore size and N-doping in CO2 capture by porous carbons. *ACS Applied Materials & Interfaces*, **2013**, 5, 6360-8	9.5	265
108	Hydrothermal carbonization of biomass as a route for the sequestration of CO2: Chemical and structural properties of the carbonized products. *Biomass and Bioenergy*, **2011**, 35, 3152-3159	5.3	263
107	Sulfur-containing activated carbons with greatly reduced content of bottle neck pores for double-layer capacitors: a case study for pseudocapacitance detection. *Energy and Environmental Science*, **2013**, 6, 2465	35.4	262
106	Biomass-derived carbon quantum dot sensitizers for solid-state nanostructured solar cells. *Angewandte Chemie - International Edition*, **2015**, 54, 4463-8	16.4	259
105	Chemical and structural properties of carbonaceous products obtained by pyrolysis and hydrothermal carbonisation of corn stover. *Soil Research*, **2010**, 48, 618	1.8	253

104	High-performance CO2 sorbents from algae. *RSC Advances*, **2012**, 2, 12792	3.7	194
103	Hierarchical microporous/mesoporous carbon nanosheets for high-performance supercapacitors. *ACS Applied Materials & Interfaces*, **2015**, 7, 4344-53	9.5	187
102	N-doped porous carbon capsules with tunable porosity for high-performance supercapacitors. *Journal of Materials Chemistry A*, **2015**, 3, 2914-2923	13	175
101	One-step synthesis of silica@resorcinol-formaldehyde spheres and their application for the fabrication of polymer and carbon capsules. *Chemical Communications*, **2012**, 48, 6124-6	5.8	174
100	CO2 adsorption by activated templated carbons. *Journal of Colloid and Interface Science*, **2012**, 366, 147-154	3.7	169
99	The influence of pore size distribution on the oxygen reduction reaction performance in nitrogen doped carbon microspheres. *Journal of Materials Chemistry A*, **2016**, 4, 2581-2589	13	158
98	Beyond KOH activation for the synthesis of superactivated carbons from hydrochar. *Carbon*, **2017**, 114, 50-58	10.4	154
97	Efficient metal-free N-doped mesoporous carbon catalysts for ORR by a template-free approach. *Carbon*, **2016**, 106, 179-187	10.4	149
96	Hydrothermal carbons from hemicellulose-derived aqueous hydrolysis products as electrode materials for supercapacitors. *ChemSusChem*, **2013**, 6, 374-82	8.3	138
95	Ultrahigh surface area polypyrrole-based carbons with superior performance for hydrogen storage. *Energy and Environmental Science*, **2011**, 4, 2930	35.4	132
94	Hydrothermal synthesis of microalgae-derived microporous carbons for electrochemical capacitors. *Journal of Power Sources*, **2014**, 267, 26-32	8.9	131
93	A Green Approach to High-Performance Supercapacitor Electrodes: The Chemical Activation of Hydrochar with Potassium Bicarbonate. *ChemSusChem*, **2016**, 9, 1880-8	8.3	124
92	Fabrication of porous carbon monoliths with a graphitic framework. *Carbon*, **2013**, 56, 155-166	10.4	121
91	Synthesis of Graphitic Carbon Nanostructures from Sawdust and Their Application as Electrocatalyst Supports. *Journal of Physical Chemistry C*, **2007**, 111, 9749-9756	3.8	120
90	A general and facile synthesis strategy towards highly porous carbons: carbonization of organic salts. *Journal of Materials Chemistry A*, **2013**, 1, 13738	13	113
89	From Soybean residue to advanced supercapacitors. *Scientific Reports*, **2015**, 5, 16618	4.9	109
88	Renewable nitrogen-doped hydrothermal carbons derived from microalgae. *ChemSusChem*, **2012**, 5, 1838-40	8.3	108
87	Performance of templated mesoporous carbons in supercapacitors. *Electrochimica Acta*, **2007**, 52, 3207-3215	6.7	106

86	Graphitic carbon nanostructures from cellulose. *Chemical Physics Letters*, **2010**, 490, 63-68	2.5	104
85	Mesoporous carbons synthesized by direct carbonization of citrate salts for use as high-performance capacitors. *Carbon*, **2015**, 88, 239-251	10.4	98
84	Versatile Cellulose-Based Carbon Aerogel for the Removal of Both Cationic and Anionic Metal Contaminants from Water. *ACS Applied Materials & Interfaces*, **2015**, 7, 25875-83	9.5	97
83	Surface Modification of CNTs with N-Doped Carbon: An Effective Way of Enhancing Their Performance in Supercapacitors. *ACS Sustainable Chemistry and Engineering*, **2014**, 2, 1049-1055	8.3	94
82	Synthetic Route to Nanocomposites Made Up of Inorganic Nanoparticles Confined within a Hollow Mesoporous Carbon Shell. *Chemistry of Materials*, **2007**, 19, 5418-5423	9.6	94
81	Optimization of the Pore Structure of Biomass-Based Carbons in Relation to Their Use for CO Capture under Low- and High-Pressure Regimes. *ACS Applied Materials & Interfaces*, **2018**, 10, 1623-1633	9.5	93
80	Superactivated carbide-derived carbons with high hydrogen storage capacity. *Energy and Environmental Science*, **2010**, 3, 223-227	35.4	93
79	High-surface area carbons from renewable sources with a bimodal micro-mesoporosity for high-performance ionic liquid-based supercapacitors. *Carbon*, **2015**, 94, 41-52	10.4	86
78	Preparation and hydrogen storage capacity of highly porous activated carbon materials derived from polythiophene. *International Journal of Hydrogen Energy*, **2011**, 36, 15658-15663	6.7	84
77	Polypyrrole-derived mesoporous nitrogen-doped carbons with intrinsic catalytic activity in the oxygen reduction reaction. *RSC Advances*, **2013**, 3, 9904	3.7	82
76	Synthesis of Uniform Mesoporous Carbon Capsules by Carbonization of Organosilica Nanospheres. *Chemistry of Materials*, **2010**, 22, 2526-2533	9.6	82
75	One-step synthesis of ultra-high surface area nanoporous carbons and their application for electrochemical energy storage. *Carbon*, **2018**, 131, 193-200	10.4	81
74	Sustainable supercapacitor electrodes produced by the activation of biomass with sodium thiosulfate. *Energy Storage Materials*, **2019**, 18, 356-365	19.4	75
73	Direct synthesis of graphitic carbon nanostructures from saccharides and their use as electrocatalytic supports. *Carbon*, **2008**, 46, 931-939	10.4	75
72	Soy protein directed hydrothermal synthesis of porous carbon aerogels for electrocatalytic oxygen reduction. *Carbon*, **2016**, 96, 622-630	10.4	73
71	Highly dispersed platinum nanoparticles on carbon nanocoils and their electrocatalytic performance for fuel cell reactions. *Electrochimica Acta*, **2009**, 54, 2234-2238	6.7	72
70	One-Pot Synthesis of Biomass-Based Hierarchical Porous Carbons with a Large Porosity Development. *Chemistry of Materials*, **2017**, 29, 6900-6907	9.6	68
69	Synthesis of carbon-based solid acid microspheres and their application to the production of biodiesel. *ChemSusChem*, **2010**, 3, 1352-4	8.3	68

68	Sulfonated mesoporous silica–carbon composites and their use as solid acid catalysts. *Applied Surface Science*, **2012**, 261, 574-583	6.7	66
67	Preparation, Characterization, and Enzyme Immobilization Capacities of Superparamagnetic Silica/Iron Oxide Nanocomposites with Mesostructured Porosity. *Chemistry of Materials*, **2009**, 21, 1806-1814	9.6	66
66	Encapsulation of nanosized catalysts in the hollow core of a mesoporous carbon capsule. *Journal of Catalysis*, **2007**, 251, 239-243	7.3	66
65	One-pot synthesis of microporous carbons highly enriched in nitrogen and their electrochemical performance. *Journal of Materials Chemistry A*, **2014**, 2, 14439-14448	13	63
64	Saccharide-based graphitic carbon nanocoils as supports for PtRu nanoparticles for methanol electrooxidation. *Journal of Power Sources*, **2007**, 171, 546-551	8.9	62
63	Enhancement of Hydrogen Storage Capacity of Zeolite-Templated Carbons by Chemical Activation. *Journal of Physical Chemistry C*, **2010**, 114, 11314-11319	3.8	61
62	Highly porous S-doped carbons. *Microporous and Mesoporous Materials*, **2012**, 158, 318-323	5.3	60
61	Fabrication of Monodisperse Mesoporous Carbon Capsules Decorated with Ferrite Nanoparticles. *Journal of Physical Chemistry C*, **2008**, 112, 3648-3654	3.8	59
60	N-doped microporous carbon microspheres for high volumetric performance supercapacitors. *Electrochimica Acta*, **2015**, 168, 320-329	6.7	58
59	Solid-phase synthesis of graphitic carbon nanostructures from iron and cobalt gluconates and their utilization as electrocatalyst supports. *Physical Chemistry Chemical Physics*, **2008**, 10, 1433-42	3.6	57
58	Superior capacitive performance of hydrochar-based porous carbons in aqueous electrolytes. *ChemSusChem*, **2015**, 8, 1049-57	8.3	54
57	Supercapacitive Behavior of Two Glucose-Derived Microporous Carbons: Direct Pyrolysis versus Hydrothermal Carbonization. *ChemElectroChem*, **2014**, 1, 2138-2145	4.3	50
56	Synthesis of magnetically separable adsorbents through the incorporation of protected nickel nanoparticles in an activated carbon. *Carbon*, **2006**, 44, 1954-1957	10.4	50
55	Boosting High-Performance in Lithium-Sulfur Batteries via Dilute Electrolyte. *Nano Letters*, **2020**, 20, 5391-5399	11.5	49
54	Synthesis of Highly Uniform Mesoporous Sub-Micrometric Capsules of Silicon Oxycarbide and Silica. *Chemistry of Materials*, **2007**, 19, 3096-3098	9.6	49
53	Highly Porous Renewable Carbons for Enhanced Storage of Energy-Related Gases (H2 and CO2) at High Pressures. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 4710-4716	8.3	48
52	A sustainable approach to hierarchically porous carbons from tannic acid and their utilization in supercapacitive energy storage systems. *Journal of Materials Chemistry A*, **2019**, 7, 14280-14290	13	46
51	Graphene-cellulose tissue composites for high power supercapacitors. *Energy Storage Materials*, **2016**, 5, 33-42	19.4	45

50	Synthesis of colloidal silica nanoparticles of a tunable mesopore size and their application to the adsorption of biomolecules. *Journal of Colloid and Interface Science*, **2010**, 349, 173-80	9.3	44
49	On the electrical double-layer capacitance of mesoporous templated carbons. *Carbon*, **2005**, 43, 3012-3015	10.4	42
48	A Green Route to High-Surface Area Carbons by Chemical Activation of Biomass-Based Products with Sodium Thiosulfate. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16323-16331	8.3	42
47	Synthesis of perfectly ordered mesoporous carbons by water-assisted mechanochemical self-assembly of tannin. *Green Chemistry*, **2018**, 20, 5123-5132	10	40
46	Activation of carbide-derived carbons: a route to materials with enhanced gas and energy storage properties. *Journal of Materials Chemistry*, **2011**, 21, 4727-4732		39
45	Easy synthesis of graphitic carbon nanocoils from saccharides. *Materials Chemistry and Physics*, **2009** , 113, 208-214	4.4	39
44	More Sustainable Chemical Activation Strategies for the Production of Porous Carbons. *ChemSusChem*, **2021**, 14, 94-117	8.3	38
43	Synthesis and characterisation of mesoporous carbons of large textural porosity and tunable pore size by templating mesostructured HMS silica materials. *Microporous and Mesoporous Materials*, **2004**, 74, 49-58	5.3	36
42	Free-standing hybrid films based on graphene and porous carbon particles for flexible supercapacitors. *Sustainable Energy and Fuels*, **2017**, 1, 127-137	5.8	35
41	Microstructure and magnetism of nanoparticles with □Fe core surrounded by □Fe and iron oxide shells. *Physical Review B*, **2010**, 81,	3.3	34
40	Mesostructured silica□carbon composites synthesized by employing surfactants as carbon source. *Microporous and Mesoporous Materials*, **2010**, 134, 165-174	5.3	34
39	Enhanced Protection of Carbon-Encapsulated Magnetic Nickel Nanoparticles through a Sucrose-Based Synthetic Strategy. *Journal of Physical Chemistry C*, **2011**, 115, 5294-5300	3.8	32
38	Magnetically separable bimodal mesoporous carbons with a large capacity for the immobilization of biomolecules. *Carbon*, **2009**, 47, 2519-2527	10.4	31
37	Signatures of clustering in superparamagnetic colloidal nanocomposites of an inorganic and hybrid nature. *Small*, **2008**, 4, 254-61	11	29
36	Aqueous Dispersions of Graphene from Electrochemically Exfoliated Graphite. *Chemistry - A European Journal*, **2016**, 22, 17351-17358	4.8	28
35	Anatase TiO2 Confined in Carbon Nanopores for High-Energy Li-Ion Hybrid Supercapacitors Operating at High Rates and Subzero Temperatures. *Advanced Energy Materials*, **2020**, 10, 1902993	21.8	28
34	High-Rate Capability of Supercapacitors Based on Tannin-Derived Ordered Mesoporous Carbons. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 17627-17635	8.3	27
33	Carboxyl-functionalized mesoporous silica□carbon composites as highly efficient adsorbents in liquid phase. *Microporous and Mesoporous Materials*, **2013**, 176, 78-85	5.3	27

32	Boosting the Oxygen Reduction Electrocatalytic Performance of Nonprecious Metal Nanocarbons via Triple Boundary Engineering Using Protic Ionic Liquids. *ACS Applied Materials & Interfaces*, **2019**, 11, 11298-11305	9.5	26
31	Defining a performance map of porous carbon sorbents for high-pressure carbon dioxide uptake and carbon dioxide□methane selectivity. *Journal of Materials Chemistry A*, **2016**, 4, 14739-14751	13	25
30	Detailed carbon chemistry in charcoals from pre-European M□ri gardens of New Zealand as a tool for understanding biochar stability in soils. *European Journal of Soil Science*, **2014**, 65, 83-95	3.4	24
29	Functionalization of mesostructured silica□arbon composites. *Materials Chemistry and Physics*, **2013**, 139, 281-289	4.4	24
28	Sustainable Salt Template-Assisted Chemical Activation for the Production of Porous Carbons with Enhanced Power Handling Ability in Supercapacitors. *Batteries and Supercaps*, **2019**, 2, 701-711	5.6	22
27	Iron/Nitrogen co-doped mesoporous carbon synthesized by an endo-templating approach as an efficient electrocatalyst for the oxygen reduction reaction. *Microporous and Mesoporous Materials*, **2019**, 278, 280-288	5.3	22
26	Templated Synthesis of Mesoporous Superparamagnetic Polymers. *Advanced Functional Materials*, **2007**, 17, 2321-2327	15.6	21
25	Fabrication of mesoporous SiO(2)-C-Fe(3)O(4)/gamma-Fe(2)O(3) and SiO(2)-C-Fe magnetic composites. *Journal of Colloid and Interface Science*, **2009**, 340, 230-6	9.3	20
24	Nickel nanoparticles deposited into an activated porous carbon: synthesis, microstructure and magnetic properties. *Physica Status Solidi - Rapid Research Letters*, **2009**, 3, 4-6	2.5	20
23	Control of the structural properties of mesoporous polymers synthesized using porous silica materials as templates. *Microporous and Mesoporous Materials*, **2008**, 112, 319-326	5.3	20
22	Synthesis strategies of templated porous carbons beyond the silica nanocasting technique. *Carbon*, **2021**, 178, 451-476	10.4	19
21	Molten salt strategies towards carbon materials for energy storage and conversion. *Energy Storage Materials*, **2021**, 38, 50-69	19.4	19
20	Co nanoparticles inserted into a porous carbon amorphous matrix: the role of cooling field and temperature on the exchange bias effect. *Physical Chemistry Chemical Physics*, **2011**, 13, 927-32	3.6	17
19	A simple and general approach for in situ synthesis of sulfur□orous carbon composites for lithium□ulfur batteries. *Sustainable Energy and Fuels*, **2019**, 3, 3498-3509	5.8	17
18	A Simple Approach towards Highly Dense Solvated Graphene Films for Supercapacitors. *ChemNanoMat*, **2016**, 2, 33-36	3.5	16
17	Flexible, Free-Standing and Holey Graphene Paper for High-Power Supercapacitors. *ChemNanoMat*, **2016**, 2, 1055-1063	3.5	15
16	Commentary: Methods of calculating the volumetric performance of a supercapacitor. *Energy Storage Materials*, **2016**, 4, 154-155	19.4	14
15	N/S-Co-doped Porous Carbon Nanoparticles Serving the Dual Function of Sulfur Host and Separator Coating in Lithium□ulfur Batteries. *ACS Applied Energy Materials*, **2020**, 3, 3397-3407	6.1	13

14	Exchange-bias and superparamagnetic behaviour of Fe nanoparticles embedded in a porous carbon matrix. *Journal of Non-Crystalline Solids*, **2008**, 354, 5219-5221	3.9	13
13	Straightforward synthesis of Sulfur/N,S-codoped carbon cathodes for Lithium-Sulfur batteries. *Scientific Reports*, **2020**, 10, 4866	4.9	12
12	Pore Characteristics for Efficient CO Storage in Hydrated Carbons. *ACS Applied Materials & Interfaces*, **2019**,	9.5	11
11	Silica@Carbon mesoporous nanorattle structures synthesised by means of a selective etching strategy. *Materials Letters*, **2010**, 64, 1587-1590	3.3	11
10	Control of crystalline phases in magnetic Fe nanoparticles inserted inside a matrix of porous carbon. *Journal of Magnetism and Magnetic Materials*, **2010**, 322, 1300-1303	2.8	9
9	Iron–Nitrogen-Doped Dendritic Carbon Nanostructures for an Efficient Oxygen Reduction Reaction. *ACS Applied Energy Materials*, **2018**, 1, 6560-6568	6.1	8
8	Onion-like nanoparticles with α-Fe core surrounded by a γ-Fe/Fe-oxide double shell. *Journal of Alloys and Compounds*, **2011**, 509, S320-S322	5.7	7
7	Highly Packed Monodisperse Porous Carbon Microspheres for Energy Storage in Supercapacitors and Li–S Batteries. *ChemElectroChem*, **2020**, 7, 3798-3810	4.3	7
6	CO2 Storage on Nanoporous Carbons. *Green Energy and Technology*, **2019**, 287-330	0.6	6
5	Applications of Hydrothermal Carbon in Modern Nanotechnology **2013**, 213-294		3
4	Facile synthesis of graphitic carbons decorated with SnO2 nanoparticles and their application as high capacity lithium-ion battery anodes. *Journal of Applied Electrochemistry*, **2012**, 42, 901-908	2.6	2
3	Cellulose as a Precursor of High-Performance Energy Storage Materials in Li–S Batteries and Supercapacitors. *Energy Technology*, **2021**, 9, 2100268	3.5	2
2	Model carbon materials derived from tannin to assess the importance of pore connectivity in supercapacitors. *Renewable and Sustainable Energy Reviews*, **2021**, 151, 111600	16.2	2
1	Dense (non-hollow) carbon nanospheres: synthesis and electrochemical energy applications. *Materials Today Nano*, **2021**, 16, 100147	9.7	1