

# Enrique Garcia-Bordeje

## List of Publications by Citations

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80  
papers

2,272  
citations

32  
h-index

43  
g-index

82  
ext. papers

2,532  
ext. citations

7.8  
avg, IF

5.12  
L-index

#	Paper	IF	Citations
80	Platinum supported on functionalized ordered mesoporous carbon as electrocatalyst for direct methanol fuel cells. <i>Journal of Power Sources</i> , <b>2007</b> , 169, 59-64	8.9	122
79	Performance of zinc oxide based sorbents for hot coal gas desulfurization in multicycle tests in a fixed-bed reactor. <i>Fuel</i> , <b>2000</b> , 79, 885-895	7.1	89
78	Deactivation of sulfonated hydrothermal carbons in the presence of alcohols: Evidences for sulfonic esters formation. <i>Journal of Catalysis</i> , <b>2012</b> , 289, 73-79	7.3	70
77	Characterization of zinc oxide and zinc ferrite doped with Ti or Cu as sorbents for hot gas desulphurization. <i>Applied Surface Science</i> , <b>1997</b> , 119, 1-10	6.7	69
76	Toward Practical Application Of H2 Generation From Ammonia Decomposition Guided by Rational Catalyst Design. <i>Catalysis Reviews - Science and Engineering</i> , <b>2014</b> , 56, 220-237	12.6	67
75	Carbon Nanofibers Uniformly Grown on Alumina Washcoated Cordierite Monoliths. <i>Advanced Materials</i> , <b>2006</b> , 18, 1589-1592	24	66
74	Parametric study of the hydrothermal carbonization of cellulose and effect of acidic conditions. <i>Carbon</i> , <b>2017</b> , 123, 421-432	10.4	62
73	Elucidation of Catalyst Support Effect for NH3 Decomposition Using Ru Nanoparticles on Nitrogen-Functionalized Carbon Nanofiber Monoliths. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 26385-26395	3.8	59
72	Characterization of Mn and Cu oxides as regenerable sorbents for hot coal gas desulfurization. <i>Fuel Processing Technology</i> , <b>2000</b> , 62, 31-44	7.2	58
71	Catalytic performance and deactivation of sulfonated hydrothermal carbon in the esterification of fatty acids: Comparison with sulfonic solids of different nature. <i>Journal of Catalysis</i> , <b>2015</b> , 324, 107-118	7.3	56
70	Ni on alumina-coated cordierite monoliths for in situ generation of CO-free H2 from ammonia. <i>Journal of Catalysis</i> , <b>2010</b> , 275, 228-235	7.3	51
69	Synthesis of composite materials of carbon nanofibres and ceramic monoliths with uniform and tuneable nanofibre layer thickness. <i>Carbon</i> , <b>2007</b> , 45, 1828-1838	10.4	47
68	Performance of Mn and Cu Mixed Oxides as Regenerable Sorbents for Hot Coal Gas Desulfurization. <i>Energy &amp; Fuels</i> , <b>2000</b> , 14, 1296-1303	4.1	47
67	Bromate catalytic reduction in continuous mode using metal catalysts supported on monoliths coated with carbon nanofibers. <i>Chemical Engineering Journal</i> , <b>2013</b> , 230, 605-611	14.7	45
66	In situ hydrogen generation from cycloalkanes using a Pt/CNF catalyst. <i>Catalysis Today</i> , <b>2008</b> , 138, 203-209	2.9	44
65	New insights into the strength and accessibility of acid sites of sulfonated hydrothermal carbon. <i>Carbon</i> , <b>2014</b> , 77, 1157-1167	10.4	43
64	NH3-SCR of NO at low temperatures over sulphated vanadia on carbon-coated monoliths: Effect of H2O and SO2 traces in the gas feed. <i>Applied Catalysis B: Environmental</i> , <b>2006</b> , 66, 281-287	21.8	43

63	Vanadium supported on carbon-coated monoliths for the SCR of NO at low temperature: effect of pore structure. <i>Applied Catalysis B: Environmental</i> , <b>2004</b> , 50, 235-242	21.8	43
62	Control of the microstructure and surface chemistry of graphene aerogels via pH and time manipulation by a hydrothermal method. <i>Nanoscale</i> , <b>2018</b> , 10, 3526-3539	7.7	42
61	Development of aligned carbon nanotubes layers over stainless steel mesh monoliths. <i>Catalysis Today</i> , <b>2009</b> , 147, S71-S75	5.3	42
60	Role of sulphates on the mechanism of NH <sub>3</sub> -SCR of NO at low temperatures over presulphated vanadium supported on carbon-coated monoliths. <i>Journal of Catalysis</i> , <b>2005</b> , 233, 166-175	7.3	42
59	Control of nitrogen insertion during the growth of nitrogen-containing carbon nanofibers on cordierite monolith walls. <i>Physical Chemistry Chemical Physics</i> , <b>2012</b> , 14, 3568-75	3.6	41
58	Structure of vanadium oxide supported on mesoporous carbon-coated monoliths and relationship with its catalytic performance in the SCR of NO at low temperatures. <i>Journal of Catalysis</i> , <b>2004</b> , 223, 395-403	7.3	41
57	Catalytic ozonation of metolachlor under continuous operation using nanocarbon materials grown on a ceramic monolith. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 239-240, 249-56	12.8	39
56	Catalytic ozonation of organic micropollutants using carbon nanofibers supported on monoliths. <i>Chemical Engineering Journal</i> , <b>2013</b> , 230, 115-123	14.7	38
55	Carbon nanofibers doped with nitrogen for the continuous catalytic ozonation of organic pollutants. <i>Chemical Engineering Journal</i> , <b>2016</b> , 293, 102-111	14.7	37
54	A Langmuir-Hinshelwood approach to the kinetic modelling of catalytic ammonia decomposition in an integral reactor. <i>Physical Chemistry Chemical Physics</i> , <b>2013</b> , 15, 12104-17	3.6	37
53	Preparation and characterisation of carbon-coated monoliths for catalyst supports. <i>Carbon</i> , <b>2002</b> , 40, 1079-1088	10.4	37
52	Self-assembled graphene aerogel and nanodiamond hybrids as high performance catalysts in oxidative propane dehydrogenation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24379-24388	13	34
51	Support-Induced Oxidation State of Catalytic Ru Nanoparticles on Carbon Nanofibers that were Doped with Heteroatoms (O, N) for the Decomposition of NH <sub>3</sub> . <i>ChemCatChem</i> , <b>2013</b> , 5, 3829-3834	5.2	34
50	Vanadium supported on carbon coated honeycomb monoliths for the selective catalytic reduction of NO at low temperatures: Influence of the oxidation pre-treatment. <i>Carbon</i> , <b>2006</b> , 44, 407-417	10.4	34
49	Biobased catalyst in biorefinery processes: sulphonated hydrothermal carbon for glycerol esterification. <i>Catalysis Science and Technology</i> , <b>2015</b> , 5, 2897-2903	5.5	33
48	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. <i>Catalysis Today</i> , <b>2020</b> , 357, 350-360	5.3	31
47	The use of Pd catalysts on carbon-based structured materials for the catalytic hydrogenation of bromates in different types of water. <i>Applied Catalysis B: Environmental</i> , <b>2014</b> , 146, 186-191	21.8	30
46	Impact of sulfonated hydrothermal carbon texture and surface chemistry on its catalytic performance in esterification reaction. <i>Catalysis Today</i> , <b>2015</b> , 249, 153-160	5.3	29

45	Mesoporous carbon doped with N,S heteroatoms prepared by one-pot auto-assembly of molecular precursor for electrocatalytic hydrogen peroxide synthesis. <i>Catalysis Today</i> , <b>2018</b> , 301, 2-10	5.3	26
44	Structured fibrous carbon-based catalysts for continuous nitrate removal from natural water. <i>Applied Catalysis B: Environmental</i> , <b>2012</b> , 123-124, 221-228	21.8	26
43	Modelling of performance of zinc ferrites as high-temperature desulfurizing sorbents in a fixed-bed reactor. <i>Fuel</i> , <b>1997</b> , 76, 567-573	7.1	23
42	Origin of the Excellent Performance of Ru on Nitrogen-Doped Carbon Nanofibers for CO Hydrogenation to CH. <i>ChemSusChem</i> , <b>2017</b> , 10, 1139-1144	8.3	22
41	Reduced Graphene Oxide Aerogels with Controlled Continuous Microchannels for Environmental Remediation. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1210-1222	5.6	22
40	Function of the Support and Metal Loading on Catalytic Carbon Dioxide Reduction Using Ruthenium Nanoparticles Supported on Carbon Nanofibers. <i>ChemCatChem</i> , <b>2015</b> , 7, 1347-1356	5.2	20
39	Nanostructured Catalysts for the Continuous Reduction of Nitrates and Bromates in Water. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2013</b> , 52, 13930-13937	3.9	20
38	Hierarchically structured reactors containing nanocarbons for intensification of chemical reactions. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 22408-22441	13	20
37	Carbon nanofibers modified with heteroatoms as metal-free catalysts for the oxidative dehydrogenation of propane. <i>ChemSusChem</i> , <b>2014</b> , 7, 2496-504	8.3	20
36	Process design for wastewater treatment: catalytic ozonation of organic pollutants. <i>Water Science and Technology</i> , <b>2013</b> , 68, 1377-83	2.2	19
35	Catalytic ozonation of oxalic acid using carbon nanofibres on macrostructured supports. <i>Water Science and Technology</i> , <b>2012</b> , 65, 1854-62	2.2	19
34	Bio-sourced mesoporous carbon doped with heteroatoms (N,S) synthesised using one-step hydrothermal process for water remediation. <i>Microporous and Mesoporous Materials</i> , <b>2016</b> , 222, 55-62	5.3	18
33	In situ generation of CO <sub>x</sub> -free H <sub>2</sub> by catalytic ammonia decomposition over Ru-Al-monoliths. <i>Fuel</i> , <b>2018</b> , 233, 851-859	7.1	18
32	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. <i>Biomacromolecules</i> , <b>2019</b> , 20, 3147-3160	6.9	18
31	A MS, SEM-EDX and XRD study of Ti or Cu-doped zinc ferrites as regenerable sorbents for hot coal gas desulfurization. <i>Applied Surface Science</i> , <b>2000</b> , 156, 115-124	6.7	18
30	Effect of Pore-Modifier Graphite on the Performance of a Zinc Titanate Sorbent in Hot Coal Gas Desulfurization. <i>Energy &amp; Fuels</i> , <b>1998</b> , 12, 409-415	4.1	18
29	Preparation and characterisation aspects of carbon-coated monoliths. <i>Catalysis Today</i> , <b>2001</b> , 69, 357-363	5.3	17
28	Optimisation of physical properties of Alumina coating microreactors used for the growth of a carbon nanofiber layer. <i>Chemical Engineering Journal</i> , <b>2009</b> , 149, 447-454	14.7	16

27	Study of Configuration and Coating Thickness of Vanadium on Carbon-Coated Monoliths in the SCR of NO at Low Temperature. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 4073-4079	3.9	16
26	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11474-11484	3.6	15
25	Vibrational spectroscopy study of zinc-containing mixed oxides as regenerable sulphur sorbents at high temperature. <i>Vibrational Spectroscopy</i> , <b>1998</b> , 16, 1-10	2.1	15
24	Novel carbon based catalysts for the reduction of NO: Influence of support precursors and active phase loading. <i>Catalysis Today</i> , <b>2008</b> , 137, 215-221	5.3	15
23	Promotion by a second metal or SO <sub>2</sub> over vanadium supported on mesoporous carbon-coated monoliths for the SCR of NO at low temperature. <i>Catalysis Today</i> , <b>2005</b> , 102-103, 177-182	5.3	15
22	The formation of a hydrothermal carbon coating on graphite microfiber felts for using as structured acid catalyst. <i>Carbon</i> , <b>2011</b> , 50, 1363-1363	10.4	12
21	Preparation of stainless steel microreactors coated with carbon nanofiber layer: Impact of hydrocarbon and temperature. <i>Catalysis Today</i> , <b>2009</b> , 147, S87-S93	5.3	12
20	Towards high-efficient microsupercapacitors based on reduced graphene oxide with optimized reduction degree. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 740-749	19.4	11
19	Temperature-mediated control of the growth of an entangled carbon nanofiber layer on stainless steel micro-structured reactors. <i>Carbon</i> , <b>2010</b> , 48, 2047-2056	10.4	10
18	Morphological characterization of vanadium oxide supported on carbon-coated monoliths using AFM. <i>Applied Surface Science</i> , <b>2004</b> , 228, 135-142	6.7	9
17	Mono- and bimetallic metal catalysts based on Ni and Ru supported on alumina-coated monoliths for CO <sub>2</sub> methanation. <i>Catalysis Science and Technology</i> , <b>2020</b> , 10, 4061-4071	5.5	9
16	Chapter 3:Novel carbon materials modified with heteroatoms as metal-free catalyst and metal catalyst support. <i>Catalysis</i> ,72-108	1.6	8
15	Process Optimisation of In Situ H <sub>2</sub> Generation From Ammonia Using Ni on Alumina Coated Cordierite Monoliths. <i>Topics in Catalysis</i> , <b>2011</b> , 54, 914-921	2.3	8
14	Graphene aerogels via hydrothermal gelation of graphene oxide colloids: Fine-tuning of its porous and chemical properties and catalytic applications. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 292, 102420	14.3	8
13	Sulfonated Hydrothermal Carbons from Cellulose and Glucose as Catalysts for Glycerol Ketalization. <i>Catalysts</i> , <b>2019</b> , 9, 804	4	7
12	Oxidised Carbon Nanofibers as Platinum Support for Proton Exchange Membrane (PEM) Fuel Cells. <i>Sensor Letters</i> , <b>2008</b> , 6, 1059-1067	0.9	7
11	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. <i>Molecular Catalysis</i> , <b>2020</b> , 484, 110737	3.3	7
10	Structured carbons as supports for hydrogenation hybrid catalysts prepared by the immobilization of a Rh diamine complex. <i>Chemical Engineering Journal</i> , <b>2016</b> , 291, 47-54	14.7	6

9	Functionalization of carbon nanofibers coated on cordierite monoliths by oxidative treatment. <i>Studies in Surface Science and Catalysis</i> , <b>2010</b> , 175, 483-486	1.8	6
8	Optimizing Bacterial Cellulose Production Towards Materials for Water Remediation. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2020</b> , 391-403	0.2	4
7	Modification of Physicochemical Properties and Boosting Electrical Conductivity of Reduced Graphene Oxide Aerogels by Postsynthesis Treatment. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13739-13752	3.8	4
6	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
5	Carbon materials functionalized with sulfonic groups as acid catalysts <b>2021</b> , 255-298		2
4	Hybrids of Reduced Graphene Oxide Aerogel and CNT for Electrochemical O <sub>2</sub> Reduction. <i>Catalysts</i> , <b>2021</b> , 11, 1404	4	0
3	Synthesis and Design of Carbon-Supported Highly Dispersed Metal Catalysts <b>2021</b> , 57-77		0
2	Hot gas desulfurization using zinc-ferrite regenerable sorbents. <i>Coal Science and Technology</i> , <b>1995</b> , 1883-1886		
1	Nanostructured Carbon Materials: Synthesis and Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2018</b> , 177-191	0.2	