Enrique Garcia-Bordeje

List of Publications by Year in Descending Order

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	Hybrids of Reduced Graphene Oxide Aerogel and CNT for Electrochemical O2 Reduction. *Catalysts*, **2021**, 11, 1404	4	0
79	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. *Nanomaterials*, **2021**, 11,	5.4	3
78	Graphene aerogels via hydrothermal gelation of graphene oxide colloids: Fine-tuning of its porous and chemical properties and catalytic applications. *Advances in Colloid and Interface Science*, **2021**, 292, 102420	14.3	8
77	Carbon materials functionalized with sulfonic groups as acid catalysts **2021**, 255-298		2
76	Synthesis and Design of Carbon-Supported Highly Dispersed Metal Catalysts **2021**, 57-77		0
75	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. *Physical Chemistry Chemical Physics*, **2020**, 22, 11474-11484	3.6	15
74	Optimizing Bacterial Cellulose Production Towards Materials for Water Remediation. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2020**, 391-403	0.2	4
73	Modification of Physicochemical Properties and Boosting Electrical Conductivity of Reduced Graphene Oxide Aerogels by Postsynthesis Treatment. *Journal of Physical Chemistry C*, **2020**, 124, 13739-13752	3.8	4
72	Mono- and bimetallic metal catalysts based on Ni and Ru supported on alumina-coated monoliths for CO2 methanation. *Catalysis Science and Technology*, **2020**, 10, 4061-4071	5.5	9
71	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. *Molecular Catalysis*, **2020**, 484, 110737	3.3	7
70	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. *Catalysis Today*, **2020**, 357, 350-360	5.3	31
69	Towards high-efficient microsupercapacitors based on reduced graphene oxide with optimized reduction degree. *Energy Storage Materials*, **2020**, 25, 740-749	19.4	11
68	Reduced Graphene Oxide Aerogels with Controlled Continuous Microchannels for Environmental Remediation. *ACS Applied Nano Materials*, **2019**, 2, 1210-1222	5.6	22
67	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. *Biomacromolecules*, **2019**, 20, 3147-3160	6.9	18
66	Sulfonated Hydrothermal Carbons from Cellulose and Glucose as Catalysts for Glycerol Ketalization. *Catalysts*, **2019**, 9, 804	4	7
65	Control of the microstructure and surface chemistry of graphene aerogels via pH and time manipulation by a hydrothermal method. *Nanoscale*, **2018**, 10, 3526-3539	7.7	42
64	Mesoporous carbon doped with N,S heteroatoms prepared by one-pot auto-assembly of molecular precursor for electrocatalytic hydrogen peroxide synthesis. *Catalysis Today*, **2018**, 301, 2-10	5.3	26

63	In situ generation of COx-free H2 by catalytic ammonia decomposition over Ru-Al-monoliths. *Fuel*, **2018**, 233, 851-859	7.1	18
62	Nanostructured Carbon Materials: Synthesis and Applications. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 177-191	0.2	
61	Origin of the Excellent Performance of Ru on Nitrogen-Doped Carbon Nanofibers for CO Hydrogenation to CH. *ChemSusChem*, **2017**, 10, 1139-1144	8.3	22
60	Hierarchically structured reactors containing nanocarbons for intensification of chemical reactions. *Journal of Materials Chemistry A*, **2017**, 5, 22408-22441	13	20
59	Parametric study of the hydrothermal carbonization of cellulose and effect of acidic conditions. *Carbon*, **2017**, 123, 421-432	10.4	62
58	Structured carbons as supports for hydrogenation hybrid catalysts prepared by the immobilization of a Rh diamine complex. *Chemical Engineering Journal*, **2016**, 291, 47-54	14.7	6
57	Carbon nanofibers doped with nitrogen for the continuous catalytic ozonation of organic pollutants. *Chemical Engineering Journal*, **2016**, 293, 102-111	14.7	37
56	Bio-sourced mesoporous carbon doped with heteroatoms (N,S) synthesised using one-step hydrothermal process for water remediation. *Microporous and Mesoporous Materials*, **2016**, 222, 55-62	5.3	18
55	Catalytic performance and deactivation of sulfonated hydrothermal carbon in the esterification of fatty acids: Comparison with sulfonic solids of different nature. *Journal of Catalysis*, **2015**, 324, 107-118	7.3	56
54	Impact of sulfonated hydrothermal carbon texture and surface chemistry on its catalytic performance in esterification reaction. *Catalysis Today*, **2015**, 249, 153-160	5.3	29
53	Biobased catalyst in biorefinery processes: sulphonated hydrothermal carbon for glycerol esterification. *Catalysis Science and Technology*, **2015**, 5, 2897-2903	5.5	33
52	Function of the Support and Metal Loading on Catalytic Carbon Dioxide Reduction Using Ruthenium Nanoparticles Supported on Carbon Nanofibers. *ChemCatChem*, **2015**, 7, 1347-1356	5.2	20
51	Self-assembled graphene aerogel and nanodiamond hybrids as high performance catalysts in oxidative propane dehydrogenation. *Journal of Materials Chemistry A*, **2015**, 3, 24379-24388	13	34
50	New insights into the strength and accessibility of acid sites of sulfonated hydrothermal carbon. *Carbon*, **2014**, 77, 1157-1167	10.4	43
49	The use of Pd catalysts on carbon-based structured materials for the catalytic hydrogenation of bromates in different types of water. *Applied Catalysis B: Environmental*, **2014**, 146, 186-191	21.8	30
48	Toward Practical Application Of H2 Generation From Ammonia Decomposition Guided by Rational Catalyst Design. *Catalysis Reviews - Science and Engineering*, **2014**, 56, 220-237	12.6	67
47	Carbon nanofibers modified with heteroatoms as metal-free catalysts for the oxidative dehydrogenation of propane. *ChemSusChem*, **2014**, 7, 2496-504	8.3	20
46	Nanostructured Catalysts for the Continuous Reduction of Nitrates and Bromates in Water. *Industrial & Engineering Chemistry Research*, **2013**, 52, 13930-13937	3.9	20

45	Catalytic ozonation of organic micropollutants using carbon nanofibers supported on monoliths. *Chemical Engineering Journal*, **2013**, 230, 115-123	14.7	38
44	Bromate catalytic reduction in continuous mode using metal catalysts supported on monoliths coated with carbon nanofibers. *Chemical Engineering Journal*, **2013**, 230, 605-611	14.7	45
43	A Langmuir-Hinshelwood approach to the kinetic modelling of catalytic ammonia decomposition in an integral reactor. *Physical Chemistry Chemical Physics*, **2013**, 15, 12104-17	3.6	37
42	Support-Induced Oxidation State of Catalytic Ru Nanoparticles on Carbon Nanofibers that were Doped with Heteroatoms (O, N) for the Decomposition of NH3. *ChemCatChem*, **2013**, 5, 3829-3834	5.2	34
41	Process design for wastewater treatment: catalytic ozonation of organic pollutants. *Water Science and Technology*, **2013**, 68, 1377-83	2.2	19
40	Deactivation of sulfonated hydrothermal carbons in the presence of alcohols: Evidences for sulfonic esters formation. *Journal of Catalysis*, **2012**, 289, 73-79	7.3	70
39	Control of nitrogen insertion during the growth of nitrogen-containing carbon nanofibers on cordierite monolith walls. *Physical Chemistry Chemical Physics*, **2012**, 14, 3568-75	3.6	41
38	Catalytic ozonation of metolachlor under continuous operation using nanocarbon materials grown on a ceramic monolith. *Journal of Hazardous Materials*, **2012**, 239-240, 249-56	12.8	39
37	Elucidation of Catalyst Support Effect for NH3 Decomposition Using Ru Nanoparticles on Nitrogen-Functionalized Carbon Nanofiber Monoliths. *Journal of Physical Chemistry C*, **2012**, 116, 26385-26395	3.8	59
36	Structured fibrous carbon-based catalysts for continuous nitrate removal from natural water. *Applied Catalysis B: Environmental*, **2012**, 123-124, 221-228	21.8	26
35	Catalytic ozonation of oxalic acid using carbon nanofibres on macrostructured supports. *Water Science and Technology*, **2012**, 65, 1854-62	2.2	19
34	The formation of a hydrothermal carbon coating on graphite microfiber felts for using as structured acid catalyst. *Carbon*, **2011**, 50, 1363-1363	10.4	12
33	Process Optimisation of In Situ H2 Generation From Ammonia Using Ni on Alumina Coated Cordierite Monoliths. *Topics in Catalysis*, **2011**, 54, 914-921	2.3	8
32	Functionalization of carbon nanofibers coated on cordierite monoliths by oxidative treatment. *Studies in Surface Science and Catalysis*, **2010**, 175, 483-486	1.8	6
31	Ni on alumina-coated cordierite monoliths for in situ generation of CO-free H2 from ammonia. *Journal of Catalysis*, **2010**, 275, 228-235	7.3	51
30	Temperature-mediated control of the growth of an entangled carbon nanofiber layer on stainless steel micro-structured reactors. *Carbon*, **2010**, 48, 2047-2056	10.4	10
29	Preparation of stainless steel microreactors coated with carbon nanofiber layer: Impact of hydrocarbon and temperature. *Catalysis Today*, **2009**, 147, S87-S93	5.3	12
28	Development of aligned carbon nanotubes layers over stainless steel mesh monoliths. *Catalysis Today*, **2009**, 147, S71-S75	5.3	42

27	Optimisation of physical properties of γ-alumina coating microreactors used for the growth of a carbon nanofiber layer. *Chemical Engineering Journal*, **2009**, 149, 447-454	14.7	16
26	Novel carbon based catalysts for the reduction of NO: Influence of support precursors and active phase loading. *Catalysis Today*, **2008**, 137, 215-221	5.3	15
25	In situ hydrogen generation from cycloalkanes using a Pt/CNF catalyst. *Catalysis Today*, **2008**, 138, 203-209	5.3	44
24	Oxidised Carbon Nanofibers as Platinum Support for Proton Exchange Membrane (PEM) Fuel Cells. *Sensor Letters*, **2008**, 6, 1059-1067	0.9	7
23	Synthesis of composite materials of carbon nanofibres and ceramic monoliths with uniform and tuneable nanofibre layer thickness. *Carbon*, **2007**, 45, 1828-1838	10.4	47
22	Platinum supported on functionalized ordered mesoporous carbon as electrocatalyst for direct methanol fuel cells. *Journal of Power Sources*, **2007**, 169, 59-64	8.9	122
21	NH3-SCR of NO at low temperatures over sulphated vanadia on carbon-coated monoliths: Effect of H2O and SO2 traces in the gas feed. *Applied Catalysis B: Environmental*, **2006**, 66, 281-287	21.8	43
20	Carbon Nanofibers Uniformly Grown on γ-Alumina Washcoated Cordierite Monoliths. *Advanced Materials*, **2006**, 18, 1589-1592	24	66
19	Vanadium supported on carbon coated honeycomb monoliths for the selective catalytic reduction of NO at low temperatures: Influence of the oxidation pre-treatment. *Carbon*, **2006**, 44, 407-417	10.4	34
18	Promotion by a second metal or SO2 over vanadium supported on mesoporous carbon-coated monoliths for the SCR of NO at low temperature. *Catalysis Today*, **2005**, 102-103, 177-182	5.3	15
17	Role of sulphates on the mechanism of NH3-SCR of NO at low temperatures over presulphated vanadium supported on carbon-coated monoliths. *Journal of Catalysis*, **2005**, 233, 166-175	7.3	42
16	Vanadium supported on carbon-coated monoliths for the SCR of NO at low temperature: effect of pore structure. *Applied Catalysis B: Environmental*, **2004**, 50, 235-242	21.8	43
15	Structure of vanadium oxide supported on mesoporous carbon-coated monoliths and relationship with its catalytic performance in the SCR of NO at low temperatures. *Journal of Catalysis*, **2004**, 223, 395-403	7.3	41
14	Morphological characterization of vanadium oxide supported on carbon-coated monoliths using AFM. *Applied Surface Science*, **2004**, 228, 135-142	6.7	9
13	Study of Configuration and Coating Thickness of Vanadium on Carbon-Coated Monoliths in the SCR of NO at Low Temperature. *Industrial & Engineering Chemistry Research*, **2004**, 43, 4073-4079	3.9	16
12	Preparation and characterisation of carbon-coated monoliths for catalyst supports. *Carbon*, **2002**, 40, 1079-1088	10.4	37
11	Preparation and characterisation aspects of carbon-coated monoliths. *Catalysis Today*, **2001**, 69, 357-363	5.3	17
10	Performance of zinc oxide based sorbents for hot coal gas desulfurization in multicycle tests in a fixed-bed reactor. *Fuel*, **2000**, 79, 885-895	7.1	89

9	A MS, SEM-EDX and XRD study of Ti or Cu-doped zinc ferrites as regenerable sorbents for hot coal gas desulfurization. *Applied Surface Science*, **2000**, 156, 115-124	6.7	18
8	Characterization of Mn and Cu oxides as regenerable sorbents for hot coal gas desulfurization. *Fuel Processing Technology*, **2000**, 62, 31-44	7.2	58
7	Performance of Mn and Cu Mixed Oxides as Regenerable Sorbents for Hot Coal Gas Desulfurization. *Energy & Fuels*, **2000**, 14, 1296-1303	4.1	47
6	Vibrational spectroscopy study of zinc-containing mixed oxides as regenerable sulphur sorbents at high temperature. *Vibrational Spectroscopy*, **1998**, 16, 1-10	2.1	15
5	Effect of Pore-Modifier Graphite on the Performance of a Zinc Titanate Sorbent in Hot Coal Gas Desulfurization. *Energy & Fuels*, **1998**, 12, 409-415	4.1	18
4	Modelling of performance of zinc ferrites as high-temperature desulfurizing sorbents in a fixed-bed reactor. *Fuel*, **1997**, 76, 567-573	7.1	23
3	Characterization of zinc oxide and zinc ferrite doped with Ti or Cu as sorbents for hot gas desulphurization. *Applied Surface Science*, **1997**, 119, 1-10	6.7	69
2	Hot gas desulfurization using zinc-ferrite regenerable sorbents. *Coal Science and Technology*, **1995**, 1883-1886		
1	Chapter 3:Novel carbon materials modified with heteroatoms as metal-free catalyst and metal catalyst support. *Catalysis*,72-108	1.6	8