Jose M Gonzalez-Dominguez

List of Publications by Citations

69 papers	2,196 citations	25 h-index	45 g-index
72 ext. papers	2,511 ext. citations	6.9 avg, IF	4.96 L-index

#	Paper	IF	Citations
69	Promises, facts and challenges for graphene in biomedical applications. *Chemical Society Reviews*, **2017**, 46, 4400-4416	58.5	415
68	Development and characterization of PEEK/carbon nanotube composites. *Carbon*, **2009**, 47, 3079-3090	10.4	145
67	Influence of carbon nanotubes on the thermal, electrical and mechanical properties of poly(ether ether ketone)/glass fiber laminates. *Carbon*, **2011**, 49, 2817-2833	10.4	115
66	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-II. Mechanical and electrical properties. *Carbon*, **2010**, 48, 3500-3511	10.4	104
65	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-I. Structure and thermal properties. *Carbon*, **2010**, 48, 3485-3499	10.4	75
64	The influence of a compatibilizer on the thermal and dynamic mechanical properties of PEEK/carbon nanotube composites. *Nanotechnology*, **2009**, 20, 315707	3.4	73
63	Graphene and graphene oxide induce ROS production in human HaCaT skin keratinocytes: the role of xanthine oxidase and NADH dehydrogenase. *Nanoscale*, **2018**, 10, 11820-11830	7.7	70
62	Solvent-free preparation of high-toughness epoxy--SWNT composite materials. *ACS Applied Materials & Interfaces*, **2011**, 3, 1441-50	9.5	64
61	Graphene Improves the Biocompatibility of Polyacrylamide Hydrogels: 3D Polymeric Scaffolds for Neuronal Growth. *Scientific Reports*, **2017**, 7, 10942	4.9	59
60	Effect of Various Aminated Single-Walled Carbon Nanotubes on the Epoxy Cross-Linking Reactions. *Journal of Physical Chemistry C*, **2011**, 115, 7238-7248	3.8	58
59	Production of ready-to-use few-layer graphene in aqueous suspensions. *Nature Protocols*, **2018**, 13, 495-506	10.8	54
58	Covalent functionalization of MWCNTs with poly(p-phenylene sulphide) oligomers: a route to the efficient integration through a chemical approach. *Journal of Materials Chemistry*, **2012**, 22, 21285		53
57	Single-walled carbon nanotubes covalently functionalized with polytyrosine: A new material for the development of NADH-based biosensors. *Biosensors and Bioelectronics*, **2016**, 86, 308-314	11.8	45
56	Smart Hybrid Graphene Hydrogels: A Study of the Different Responses to Mechanical Stretching Stimulus. *ACS Applied Materials & Interfaces*, **2018**, 10, 1987-1995	9.5	42
55	Production and stability of mechanochemically exfoliated graphene in water and culture media. *Nanoscale*, **2016**, 8, 14548-55	7.7	42
54	Surfactant-free assembling of functionalized single-walled carbon nanotube buckypapers. *Carbon*, **2010**, 48, 1480-1488	10.4	41
53	Processing and properties of PEEK/glass fiber laminates: Effect of addition of single-walled carbon nanotubes. *Composites Part A: Applied Science and Manufacturing*, **2012**, 43, 1267-1279	8.4	38

52	Grafting of a hydroxylated poly(ether ether ketone) to the surface of single-walled carbon nanotubes. *Journal of Materials Chemistry*, **2010**, 20, 8285		36
51	Single-walled carbon nanotubes covalently functionalized with cysteine: A new alternative for the highly sensitive and selective Cd(II) quantification. *Sensors and Actuators B: Chemical*, **2017**, 249, 506-514	8.5	32
50	Differential effects of graphene materials on the metabolism and function of human skin cells. *Nanoscale*, **2018**, 10, 11604-11615	7.7	31
49	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. *Catalysis Today*, **2020**, 357, 350-360	5.3	31
48	Dielectric behavior and electrical conductivity of PVDF filled with functionalized single-walled carbon nanotubes. *Composites Science and Technology*, **2017**, 152, 263-274	8.6	30
47	Epoxy composites with covalently anchored amino-functionalized SWNTs: towards the tailoring of physical properties through targeted functionalization. *Journal of Materials Chemistry*, **2011**, 21, 14948		29
46	Three-Dimensional Conductive Scaffolds as Neural Prostheses Based on Carbon Nanotubes and Polypyrrole. *ACS Applied Materials & Interfaces*, **2018**, 10, 43904-43914	9.5	29
45	Covalent functionalization of single-walled carbon nanotubes with polytyrosine: Characterization and analytical applications for the sensitive quantification of polyphenols. *Analytica Chimica Acta*, **2016**, 909, 51-9	6.6	27
44	Electrochemical sensing of guanine, adenine and 8-hydroxy-2?-deoxyguanosine at glassy carbon modified with single-walled carbon nanotubes covalently functionalized with lysine. *RSC Advances*, **2016**, 6, 13469-13477	3.7	25
43	Separation of single-walled carbon nanotubes from graphite by centrifugation in a surfactant or in polymer solutions. *Carbon*, **2010**, 48, 2917-2924	10.4	24
42	Optical absorption response of chemically modified single-walled carbon nanotubes upon ultracentrifugation in various dispersants. *Carbon*, **2014**, 66, 105-118	10.4	23
41	Reduced Graphene Oxide Aerogels with Controlled Continuous Microchannels for Environmental Remediation. *ACS Applied Nano Materials*, **2019**, 2, 1210-1222	5.6	22
40	Peptide-based biomaterials. Linking l-tyrosine and poly l-tyrosine to graphene oxide nanoribbons. *Journal of Materials Chemistry B*, **2015**, 3, 3870-3884	7.3	22
39	Influence of air oxidation on the surfactant-assisted purification of single-walled carbon nanotubes. *Langmuir*, **2011**, 27, 7192-8	4	22
38	Wrapping of SWCNTs in Polyethylenoxide-Based Amphiphilic Diblock Copolymers: An Approach to Purification, Debundling, and Integration into the Epoxy Matrix. *Journal of Physical Chemistry C*, **2012**, 116, 7399-7408	3.8	21
37	Tailored Methodology Based on Vapor Phase Polymerization to Manufacture PEDOT/CNT Scaffolds for Tissue Engineering. *ACS Biomaterials Science and Engineering*, **2020**, 6, 1269-1278	5.5	21
36	Cysteine functionalized bio-nanomaterial for the affinity sensing of Pb(II) as an indicator of environmental damage. *Microchemical Journal*, **2018**, 141, 271-278	4.8	18
35	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. *Biomacromolecules*, **2019**, 20, 3147-3160	6.9	18

34	Tailored SWCNT functionalization optimized for compatibility with epoxy matrices. *Nanotechnology*, **2012**, 23, 285701	3.4	17
33	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. *Physical Chemistry Chemical Physics*, **2020**, 22, 11474-11484	3.6	15
32	Poly(ether ether ketone)-based hierarchical composites for tribological applications. *Chemical Engineering Journal*, **2013**, 218, 285-294	14.7	15
31	Integration of block copolymer-wrapped single-wall carbon nanotubes into a trifunctional epoxy resin. Influence on thermal performance. *Polymer Degradation and Stability*, **2010**, 95, 2065-2075	4.7	14
30	Filling Single-Walled Carbon Nanotubes with Lutetium Chloride: A Sustainable Production of Nanocapsules Free of Nonencapsulated Material. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 2501-2508	8.3	13
29	Transparent conducting films made of different carbon nanotubes, processed carbon nanotubes, and graphene nanoribbons. *Chemical Engineering Science*, **2015**, 138, 566-574	4.4	13
28	Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine: Synthesis, Characterization and Analytical Applications for the Development of Electrochemical (Bio)Sensors. *Electroanalysis*, **2014**, 26, 1676-1683	3	13
27	Choosing the Chemical Route for Carbon Nanotube Integration in Poly(vinylidene fluoride). *Journal of Physical Chemistry C*, **2012**, 116, 16217-16225	3.8	13
26	Multipurpose Nature of Rapid Covalent Functionalization on Carbon Nanotubes. *Chemistry - A European Journal*, **2015**, 21, 18631-41	4.8	12
25	Reactive fillers based on SWCNTs functionalized with matrix-based moieties for the production of epoxy composites with superior and tunable properties. *Nanotechnology*, **2012**, 23, 285702	3.4	11
24	Block copolymer assisted dispersion of single walled carbon nanotubes and integration into a trifunctional epoxy. *Journal of Nanoscience and Nanotechnology*, **2009**, 9, 6104-12	1.3	11
23	Electrochemical Sensor for the Quantification of Dopamine Using Glassy Carbon Electrodes Modified with Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine. *Electroanalysis*, **2015**, 27, 1565-1571	3	10
22	A chemically reactive spinning dope for significant improvements in wet spun carbon nanotube fibres. *Chemical Communications*, **2013**, 49, 3973-5	5.8	8
21	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. *Physical Chemistry Chemical Physics*, **2019**, 21, 4063-4071	3.6	7
20	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotube–epoxy composites. *Journal of Intelligent Material Systems and Structures*, **2012**, 23, 909-917	2.3	7
19	Graphene quantum dots: From efficient preparation to safe renal excretion. *Nano Research*, **2021**, 14, 674-683	10	7
18	Thiolated Graphene Oxide Nanoribbons as Templates for Anchoring Gold Nanoparticles: Two-Dimensional Nanostructures for SERS. *ChemPlusChem*, **2019**, 84, 862-871	2.8	6
17	Evaluation of the efficacy of carbon nanotubes for delivering peptides into mitochondria. *RSC Advances*, **2016**, 6, 67232-67241	3.7	6

16	The influence of the impregnation method on yield of activated carbon produced by H3PO4 activation. *Materials Letters*, **2011**, 65, 1423-1426	3.3	6
15	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. *Colloids and Surfaces B: Biointerfaces*, **2020**, 185, 110612	6	5
14	Experimental, Numerical, and Analytical Study on The Effect of Graphene Oxide in The Mechanical Properties of a Solvent-Free Reinforced Epoxy Resin. *Polymers*, **2019**, 11,	4.5	5
13	Activated carbon from cherry stones by chemical activation: Influence of the impregnation method on porous structure. *Journal of Wood Chemistry and Technology*, **2017**, 37, 148-162	2	4
12	Modulation of waveguide behaviour of an ICT 2H-Benzo[d][1,2,3]Triazole derivative with graphene. *Organic Electronics*, **2019**, 68, 1-8	3.5	4
11	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
10	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
9	Slow diffusion co-assembly as an efficient tool to tune colour emission in alkynyl benzoazoles. *Dyes and Pigments*, **2020**, 176, 108246	4.6	3
8	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. *Nanomaterials*, **2021**, 11,	5.4	3
7	Intrinsic and selective activity of functionalized carbon nanotube/nanocellulose platforms against colon cancer cells.. *Colloids and Surfaces B: Biointerfaces*, **2022**, 212, 112363	6	2
6	Functionalization Strategies for Single-Walled Carbon Nanotubes Integration into Epoxy Matrices **2014**, 45-116		1
5	Effect of nanocellulose polymorphism on electrochemical analytical performance in hybrid nanocomposites with non-oxidized single-walled carbon nanotubes.. *Mikrochimica Acta*, **2022**, 189, 62	5.8	1
4	Extraordinary Protective Efficacy of Graphene Oxide over the Stone-Based Cultural Heritage. *Advanced Materials Interfaces*, **2021**, 8, 2101012	4.6	1
3	How does phosphoric acid interact with cherry stones? A discussion on overlooked aspects of chemical activation. *Wood Science and Technology*, **2018**, 52, 1645-1669	2.5	1
2	Synthesis and processing of nanomaterials mediated by living beings. *Angewandte Chemie*,	3.6	
1	CHAPTER 4. Carbon Nanostructures and Polysaccharides for Biomedical Materials. *RSC Nanoscience and Nanotechnology*, **2021**, 98-152		