## Belen Ballesteros

List of Publications by Year in descending order

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Version: 2024-02-01

90 papers 2,608 citations

201674 27 h-index 206112 48 g-index

92 all docs 92 docs citations 92 times ranked 4335 citing authors

#	Article	IF	CITATIONS
1	Filled and glycosylated carbon nanotubes for in vivo radioemitter localization and imaging. Nature Materials, 2010, 9, 485-490.	<b>27.</b> 5	267
2	The interaction of carbon nanotubes with an inÂvitro blood-brain barrier model and mouse brain inÂvivo. Biomaterials, 2015, 53, 437-452.	11.4	178
3	Fieldlike and antidamping spin-orbit torques in as-grown and annealed Ta/CoFeB/MgO layers. Physical Review B, 2014, 89, .	3.2	164
4	Removal of amorphous carbon for the efficient sidewall functionalisation of single-walled carbon nanotubes. Chemical Communications, 2007, , 5090.	4.1	108
5	Spray deposition of steam treated and functionalized single-walled and multi-walled carbon nanotube films for supercapacitors. Nanotechnology, 2009, 20, 065605.	2.6	93
6	Synthesis and Stabilization of Subnanometric Gold Oxide Nanoparticles on Multiwalled Carbon Nanotubes and Their Catalytic Activity. Journal of the American Chemical Society, 2011, 133, 10251-10261.	13.7	87
7	LSCM–(YSZ–CGO) composites as improved symmetrical electrodes for solid oxide fuel cells. Journal of the European Ceramic Society, 2007, 27, 4223-4227.	5.7	79
8	Steam Purification for the Removal of Graphitic Shells Coating Catalytic Particles and the Shortening of Singleâ∈Walled Carbon Nanotubes. Small, 2008, 4, 1501-1506.	10.0	76
9	p-Type Ultrawide-Band-Gap Spinel ZnGa <sub>2</sub> O <sub>4</sub> : New Perspectives for Energy Electronics. Crystal Growth and Design, 2020, 20, 2535-2546.	3.0	68
10	Atomic-Scale Detection of Organic Molecules Coupled to Single-Walled Carbon Nanotubes. Journal of the American Chemical Society, 2007, 129, 10966-10967.	13.7	63
11	Fabrication of carbon-nanotube-reinforced glass–ceramic nanocomposites by ultrasonic in situ sol–gel processing. Journal of Materials Chemistry, 2008, 18, 5344.	6.7	59
12	Core–Shell PbI <sub>2</sub> @WS <sub>2</sub> Inorganic Nanotubes from Capillary Wetting. Angewandte Chemie - International Edition, 2009, 48, 1230-1233.	13.8	56
13	Functionalization of Polypyrrole Nanopipes with Redoxâ€Active Polyoxometalates for High Energy Density Supercapacitors. ChemSusChem, 2017, 10, 731-737.	6.8	53
14	Synthesis of Pbl <sub>2</sub> Singleâ€Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes. Advanced Materials, 2014, 26, 2016-2021.	21.0	52
15	Gadolinium-functionalised multi-walled carbon nanotubes as a T 1 contrast agent for MRI cell labelling and tracking. Carbon, 2016, 97, 126-133.	10.3	50
16	Multi-scale analysis of the diffusion barrier layer of gadolinia-doped ceria in a solid oxide fuel cell operated in a stack for 3000Âh. Journal of Power Sources, 2017, 344, 141-151.	7.8	50
17	Electrochemical Opening of Single-Walled Carbon Nanotubes Filled with Metal Halides and with Closed Ends. Journal of Physical Chemistry C, 2008, 112, 10389-10397.	3.1	49
18	Synthesis conditions, light intensity and temperature effect on the performance of ZnO nanorods-based dye sensitized solar cells. Journal of Power Sources, 2011, 196, 6609-6621.	7.8	47

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19	Carbon nanotubes allow capture of krypton, barium and lead for multichannel biological X-ray fluorescence imaging. Nature Communications, 2016, 7, 13118.	12.8	39
20	pH-triggered release of materials from single-walled carbon nanotubes using dimethylamino-functionalized fullerenes as removable "corks― Carbon, 2010, 48, 1912-1917.	10.3	38
21	Neutron Activated <sup>153</sup> Sm Sealed in Carbon Nanocapsules for <i>in Vivo</i> Imaging and Tumor Radiotherapy. ACS Nano, 2020, 14, 129-141.	14.6	37
22	Deposition of functionalized single wall carbon nanotubes through matrix assisted pulsed laser evaporation. Carbon, 2012, 50, 4450-4458.	10.3	36
23	Comparative study of shortening and cutting strategies of single-walled and multi-walled carbon nanotubes assessed by Ascanning electron microscopy. Carbon, 2018, 139, 922-932.	10.3	34
24	Covalent Functionalization of Multiâ€walled Carbon Nanotubes with a Gadolinium Chelate for Efficient <i>T</i> <sub>1</sub> â€Weighted Magnetic Resonance Imaging. Advanced Functional Materials, 2014, 24, 7173-7186.	14.9	31
25	Tailoring the Architecture of Cationic Polymer Brush-Modified Carbon Nanotubes for Efficient siRNA Delivery in Cancer Immunotherapy. ACS Applied Materials & Samp; Interfaces, 2021, 13, 30284-30294.	8.0	30
26	Design of antibody-functionalized carbon nanotubes filled with radioactivable metals towards a targeted anticancer therapy. Nanoscale, 2016, 8, 12626-12638.	5.6	28
27	Quantitative Assessment of the Amount of Material Encapsulated in Filled Carbon Nanotubes. Journal of Physical Chemistry C, 2009, 113, 2653-2656.	3.1	27
28	Ultraviolet pulsed laser irradiation of multi-walled carbon nanotubes in nitrogen atmosphere. Journal of Applied Physics, 2014, 115, 093501.	2.5	27
29	Orbital moment anisotropy of Pt/Co/AlO <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mrow></mml:mrow><mml:mi>x</mml:mi></mml:msub></mml:math> heterostructures with strong Rashba interaction. Physical Review B, 2011, 84, .	3.2	25
30	Cationic Liposome- Multi-Walled Carbon Nanotubes Hybrids for Dual siPLK1 and Doxorubicin Delivery In Vitro. Pharmaceutical Research, 2015, 32, 3293-3308.	3.5	25
31	Selective Laser-Assisted Synthesis of Tubular van der Waals Heterostructures of Single-Layered Pbl <sub>2</sub> within Carbon Nanotubes Exhibiting Carrier Photogeneration. ACS Nano, 2018, 12, 6648-6656.	14.6	24
32	Effect of laser radiation on multi-wall carbon nanotubes: study of shell structure and immobilization process. Journal of Nanoparticle Research, $2013,15,1.$	1.9	22
33	Ionic and Electronic Conductivity of 5% Ca-Doped GdNbO[sub 4]. Journal of the Electrochemical Society, 2006, 153, J87.	2.9	21
34	Sidewall functionalisation of carbon nanotubes by addition of diarylcarbene derivatives. Journal of Materials Chemistry, 2011, 21, 19080.	6.7	21
35	Encapsulation of two-dimensional materials inside carbon nanotubes: Towards an enhanced synthesis of single-layered metal halides. Carbon, 2017, 123, 129-134.	10.3	21
36	Proteinâ€Coronaâ€byâ€Design in 2D: A Reliable Platform to Decode Bio–Nano Interactions for the Nextâ€Generation Qualityâ€byâ€Design Nanomedicines. Advanced Materials, 2018, 30, e1802732.	21.0	21

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37	Microwave-Assisted Synthesis of SPION-Reduced Graphene Oxide Hybrids for Magnetic Resonance Imaging (MRI). Nanomaterials, 2019, 9, 1364.	4.1	20
38	Zinc oxide/carboxylic acid lamellar structures. Materials Research Bulletin, 2011, 46, 2191-2195.	5.2	19
39	Highly Dispersible and Stable Anionic Boron Cluster–Graphene Oxide Nanohybrids. Chemistry - A European Journal, 2016, 22, 5096-5101.	3.3	18
40	Neutron-irradiated antibody-functionalised carbon nanocapsules for targeted cancer radiotherapy. Carbon, 2020, 162, 410-422.	10.3	18
41	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.	6.7	17
42	Nanosecond Laserâ€Assisted Nitrogen Doping of Graphene Oxide Dispersions. ChemPhysChem, 2017, 18, 935-941.	2.1	17
43	Gadolinium-Incorporated Carbon Nanodots for <i>T</i> <sub>1</sub> -Weighted Magnetic Resonance Imaging. ACS Applied Nano Materials, 2021, 4, 1467-1477.	5.0	17
44	Heteroepitaxial orientation control of YSZ thin films by selective growth on SrO-, TiO2-terminated SrTiO3crystal surfaces. CrystEngComm, 2011, 13, 1625-1631.	2.6	16
45	Synthesis and Laser Immobilization onto Solid Substrates of CdSe/ZnS Core–Shell Quantum Dots. Journal of Physical Chemistry C, 2011, 115, 15210-15216.	3.1	16
46	Magnetic properties of planar nanowire arrays of Co fabricated on oxidized step-bunched silicon templates. Nanotechnology, 2012, 23, 235702.	2.6	16
47	Four Molecular Superconductors Isolated as Nanoparticles. European Journal of Inorganic Chemistry, 2014, 2014, 4010-4016.	2.0	16
48	Non-cytotoxic carbon nanocapsules synthesized via one-pot filling and end-closing of multi-walled carbon nanotubes. Carbon, 2019, 141, 782-793.	10.3	16
49	Synthesis and characterization of WS2 inorganic nanotubes with encapsulated/intercalated Csl. Nano Research, 2010, 3, 170-173.	10.4	14
50	One-dimensional composites based on single walled carbon nanotubes and poly(o-phenylenediamine). Synthetic Metals, 2011, 161, 2344-2354.	3.9	14
51	Synthesis of dry SmCl3 from Sm2O3 revisited. Implications for the encapsulation of samarium compounds into carbon nanotubes. Polyhedron, 2016, 116, 116-121.	2.2	13
52	Optimisation of growth parameters to obtain epitaxial Y-doped BaZrO3 proton conducting thin films. Solid State Ionics, 2018, 314, 9-16.	2.7	13
53	Quantitative monitoring of the removal of non-encapsulated material external to filled carbon nanotube samples. Physical Chemistry Chemical Physics, 2015, 17, 31662-31669.	2.8	12
54	Superelasticity preservation in dissimilar joint of NiTi shape memory alloy to biomedical PtIr. Materialia, 2021, 16, 101090.	2.7	12

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55	Enhanced Sidewall Functionalization of Single-Wall Carbon Nanotubes Using Nitric Acid. Journal of Nanoscience and Nanotechnology, 2009, 9, 6072-6077.	0.9	11
56	Carbon nanocapsules: blocking materials inside carbon nanotubes. Physica Status Solidi C: Current Topics in Solid State Physics, 2010, 7, 2739-2742.	0.8	11
57	Effect of Steamâ€Treatment Time on the Length and Structure of Singleâ€Walled and Doubleâ€Walled Carbon Nanotubes. ChemNanoMat, 2016, 2, 108-116.	2.8	11
58	Evaluation of the immunological profile of antibody-functionalized metal-filled single-walled carbon nanocapsules for targeted radiotherapy. Scientific Reports, 2017, 7, 42605.	3.3	11
59	Multi-approach analysis to assess the chromium(III) immobilization by Ochrobactrum anthropi DE2010. Chemosphere, 2020, 238, 124663.	8.2	11
60	Production of Water-Soluble Few-Layer Graphene Mesosheets by Dry Milling with Hydrophobic Drug. Langmuir, 2014, 30, 14999-15008.	3.5	10
61	Spin density wave and superconducting properties of nanoparticle organic conductor assemblies. Physical Review B, 2015, 91, .	3.2	10
62	Synthesis, characterization, and thermoelectric properties of superconducting (BEDT-TTF) <sub>2</sub> 1 <sub>3</sub> nanoparticles. Journal of Materials Chemistry C, 2016, 4, 7449-7454.	5.5	10
63	In vivo behaviour of glyco-Nal@SWCNT â€~nanobottles'. Inorganica Chimica Acta, 2019, 495, 118933.	2.4	10
64	Determination of the length of single-walled carbon nanotubes by scanning electron microscopy. MethodsX, 2018, 5, 1465-1472.	1.6	9
65	An <i>in operando</i> study of chemical expansion and oxygen surface exchange rates in epitaxial GdBaCo <sub>2</sub> O <sub>5.5</sub> electrodes in a solid-state electrochemical cell by time-resolved X-ray diffraction. Journal of Materials Chemistry A, 2018, 6, 12430-12439.	10.3	8
66	Epoxidation of Carbon Nanocapsules: Decoration of Single-Walled Carbon Nanotubes Filled with Metal Halides. Nanomaterials, 2018, 8, 137.	4.1	8
67	Facile synthesis of nanoparticles of the molecule-based superconductor κ-(BEDT-TTF)2Cu(NCS)2. Comptes Rendus Chimie, 2018, 21, 809-813.	0.5	7
68	Charge transfer in steam purified arc discharge single walled carbon nanotubes filled with lutetium halides. Physical Chemistry Chemical Physics, 2020, 22, 10063-10075.	2.8	7
69	Synthesis and characterization of CdSe/ZnS coreâ€shell quantum dots immobilized on solid substrates through laser irradiation. Physica Status Solidi (A) Applications and Materials Science, 2012, 209, 2201-2207.	1.8	6
70	Fractal porosity in metals synthesized by a simple combustion reaction. RSC Advances, 2013, 3, 2351.	3.6	6
71	Encapsulation of cationic iridium(iii) tetrazole complexes into a silica matrix: synthesis, characterization and optical properties. New Journal of Chemistry, 2018, 42, 9635-9644.	2.8	6
72	Functionalization of filled radioactive multi-walled carbon nanocapsules by arylation reaction for <i>in vivo</i> delivery of radio-therapy. Journal of Materials Chemistry B, 2021, 10, 47-56.	5.8	6

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73	Structural and magnetic properties of planar nanowire arrays of Co grown on oxidized vicinal silicon (111) templates. Journal of Applied Physics, 2012, 111, 07E342.	2.5	5
74	Functionalization of Carbon Nanotubes. , 2012, , 911-919.		5
75	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. Colloids and Surfaces B: Biointerfaces, 2020, 185, 110612.	5.0	5
76	Large thermoelectric power variations in epitaxial thin films of layered perovskite GdBaCo <sub>2</sub> O <sub>5.5±Î′</sub> with a different preferred orientation and strain. Journal of Materials Chemistry A, 2020, 8, 19975-19983.	10.3	5
77	Role of $\langle i \rangle p \langle  i \rangle O \langle sub \rangle 2 \langle  sub \rangle$ and film microstructure on the memristive properties of La $\langle sub \rangle 2 \langle  sub \rangle NiO \langle sub \rangle 4 + \langle i \rangle \hat{i} \langle  sub \rangle  LaNiO \langle sub \rangle 3 \hat{a}^2 \langle i \rangle \hat{i} \langle  i \rangle \langle  sub \rangle $ bilayers. Journal of Materials Chemistry A, 2022, 10, 6523-6530.	10.3	5
78	Epitaxial films of the proton-conducting Ca-doped LaNbO4 material and a study of their charge transport properties. Solid State Ionics, 2012, 216, 25-30.	2.7	4
79	Observation of out-of-plane unidirectional anisotropy in MgO-capped planar nanowire arrays of Fe. Journal of Applied Physics, 2013, 114, 133903.	2.5	4
80	Vertically Aligned <font>ZnO</font> / <font>In</font> <sub>x</sub> <font>S</font> <sub>y</sub> Core–Shell Nanorods for High Efficient Dye-Sensitized Solar Cells. Nano, 2015, 10, 1550103.	1.0	4
81	Functionalization of Carbon Nanotubes. , 2016, , 1281-1291.		4
82	Raman antenna effect from exciton–phonon coupling in organic semiconducting nanobelts. Nanoscale, 2017, 9, 19328-19336.	5.6	4
83	Finite Element Methods for Computational Nano-optics. , 2012, , 837-843.		3
84	The Role of Temperature on the Degree of End-Closing and Filling of Single-Walled Carbon Nanotubes. Nanomaterials, 2021, 11, 3365.	4.1	3
85	Fullerenes for Drug Delivery. , 2012, , 898-911.		1
86	Carbon Nanotubes: Synthesis of PbI2Single-Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes (Adv. Mater. 13/2014). Advanced Materials, 2014, 26, 2108-2108.	21.0	1
87	Magnetization Reversal Behaviour of Planar Nanowire Arrays of Fe. Current Nanoscience, 2013, 9, 609-614.	1.2	1
88	Functionalization of Carbon Nanotubes. , 2015, , 1-12.		1
89	Fundamental Properties of Zinc Oxide Nanowires. , 2012, , 919-927.		0
90	Frontispiece: Highly Dispersible and Stable Anionic Boron Cluster–Graphene Oxide Nanohybrids. Chemistry - A European Journal, 2016, 22, .	3.3	0