

Belen Ballesteros

List of Publications by Year in descending order

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Version: 2024-02-01

90
papers

2,608
citations

201385

27
h-index

205818

48
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92
all docs

92
docs citations

92
times ranked

4335
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of pO_2 and film microstructure on the memristive properties of $\text{La}_2\text{NiO}_{4+\delta}/\text{LaNiO}_3$ bilayers. <i>Journal of Materials Chemistry A</i> , 2022, 10, 6523-6530.	5.2	5
2	Gadolinium-Incorporated Carbon Nanodots for T_1 -Weighted Magnetic Resonance Imaging. <i>ACS Applied Nano Materials</i> , 2021, 4, 1467-1477.	2.4	17
3	Superelasticity preservation in dissimilar joint of NiTi shape memory alloy to biomedical PtIr. <i>Materialia</i> , 2021, 16, 101090.	1.3	12
4	Tailoring the Architecture of Cationic Polymer Brush-Modified Carbon Nanotubes for Efficient siRNA Delivery in Cancer Immunotherapy. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 30284-30294.	4.0	30
5	Functionalization of filled radioactive multi-walled carbon nanocapsules by arylation reaction for <i>in vivo</i> delivery of radio-therapy. <i>Journal of Materials Chemistry B</i> , 2021, 10, 47-56.	2.9	6
6	The Role of Temperature on the Degree of End-Closing and Filling of Single-Walled Carbon Nanotubes. <i>Nanomaterials</i> , 2021, 11, 3365.	1.9	3
7	Multi-approach analysis to assess the chromium(III) immobilization by <i>Ochrobactrum anthropi</i> DE2010. <i>Chemosphere</i> , 2020, 238, 124663.	4.2	11
8	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110612.	2.5	5
9	Neutron Activated ^{153}Sm Sealed in Carbon Nanocapsules for <i>In Vivo</i> Imaging and Tumor Radiotherapy. <i>ACS Nano</i> , 2020, 14, 129-141.	7.3	37
10	Large thermoelectric power variations in epitaxial thin films of layered perovskite $\text{GdBaCo}_2\text{O}_{5.5\pm\delta}$ with a different preferred orientation and strain. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19975-19983.	5.2	5
11	p-Type Ultrawide-Band-Gap Spinel ZnGa_2O_4 : New Perspectives for Energy Electronics. <i>Crystal Growth and Design</i> , 2020, 20, 2535-2546.	1.4	68
12	Neutron-irradiated antibody-functionalised carbon nanocapsules for targeted cancer radiotherapy. <i>Carbon</i> , 2020, 162, 410-422.	5.4	18
13	Charge transfer in steam purified arc discharge single walled carbon nanotubes filled with lutetium halides. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 10063-10075.	1.3	7
14	In vivo behaviour of glyco-Nal@SWCNT "nanobottles". <i>Inorganica Chimica Acta</i> , 2019, 495, 118933.	1.2	10
15	Microwave-Assisted Synthesis of SPION-Reduced Graphene Oxide Hybrids for Magnetic Resonance Imaging (MRI). <i>Nanomaterials</i> , 2019, 9, 1364.	1.9	20
16	Non-cytotoxic carbon nanocapsules synthesized via one-pot filling and end-closing of multi-walled carbon nanotubes. <i>Carbon</i> , 2019, 141, 782-793.	5.4	16
17	Optimisation of growth parameters to obtain epitaxial Y-doped BaZrO_3 proton conducting thin films. <i>Solid State Ionics</i> , 2018, 314, 9-16.	1.3	13
18	Determination of the length of single-walled carbon nanotubes by scanning electron microscopy. <i>MethodsX</i> , 2018, 5, 1465-1472.	0.7	9

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19	An <i>in operando</i> study of chemical expansion and oxygen surface exchange rates in epitaxial GdBaCo ₂ O _{5.5} electrodes in a solid-state electrochemical cell by time-resolved X-ray diffraction. <i>Journal of Materials Chemistry A</i> , 2018, 6, 12430-12439.	5.2	8
20	Selective Laser-Assisted Synthesis of Tubular van der Waals Heterostructures of Single-Layered PbI ₂ within Carbon Nanotubes Exhibiting Carrier Photogeneration. <i>ACS Nano</i> , 2018, 12, 6648-6656.	7.3	24
21	Epoxidation of Carbon Nanocapsules: Decoration of Single-Walled Carbon Nanotubes Filled with Metal Halides. <i>Nanomaterials</i> , 2018, 8, 137.	1.9	8
22	Encapsulation of cationic iridium(III) tetrazole complexes into a silica matrix: synthesis, characterization and optical properties. <i>New Journal of Chemistry</i> , 2018, 42, 9635-9644.	1.4	6
23	Protein-Corona-By-Design in 2D: A Reliable Platform to Decode Bio-Nano Interactions for the Next-Generation Quality-By-Design Nanomedicines. <i>Advanced Materials</i> , 2018, 30, e1802732.	11.1	21
24	Facile synthesis of nanoparticles of the molecule-based superconductor β -(BEDT-TTF) ₂ Cu(NCS) ₂ . <i>Comptes Rendus Chimie</i> , 2018, 21, 809-813.	0.2	7
25	Comparative study of shortening and cutting strategies of single-walled and multi-walled carbon nanotubes assessed by scanning electron microscopy. <i>Carbon</i> , 2018, 139, 922-932.	5.4	34
26	Filling Single-Walled Carbon Nanotubes with Lutetium Chloride: A Sustainable Production of Nanocapsules Free of Nonencapsulated Material. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 2501-2508.	3.2	17
27	Evaluation of the immunological profile of antibody-functionalized metal-filled single-walled carbon nanocapsules for targeted radiotherapy. <i>Scientific Reports</i> , 2017, 7, 42605.	1.6	11
28	Multi-scale analysis of the diffusion barrier layer of gadolinia-doped ceria in a solid oxide fuel cell operated in a stack for 3000 h. <i>Journal of Power Sources</i> , 2017, 344, 141-151.	4.0	50
29	Nanosecond Laser-Assisted Nitrogen Doping of Graphene Oxide Dispersions. <i>ChemPhysChem</i> , 2017, 18, 935-941.	1.0	17
30	Functionalization of Polypyrrole Nanopipes with Redox-Active Polyoxometalates for High Energy Density Supercapacitors. <i>ChemSusChem</i> , 2017, 10, 731-737.	3.6	53
31	Encapsulation of two-dimensional materials inside carbon nanotubes: Towards an enhanced synthesis of single-layered metal halides. <i>Carbon</i> , 2017, 123, 129-134.	5.4	21
32	Raman antenna effect from exciton-phonon coupling in organic semiconducting nanobelts. <i>Nanoscale</i> , 2017, 9, 19328-19336.	2.8	4
33	Functionalization of Carbon Nanotubes. , 2016, , 1281-1291.		4
34	Synthesis, characterization, and thermoelectric properties of superconducting (BEDT-TTF) ₂ I ₃ nanoparticles. <i>Journal of Materials Chemistry C</i> , 2016, 4, 7449-7454.	2.7	10
35	Carbon nanotubes allow capture of krypton, barium and lead for multichannel biological X-ray fluorescence imaging. <i>Nature Communications</i> , 2016, 7, 13118.	5.8	39
36	Frontispiece: Highly Dispersible and Stable Anionic Boron Cluster-Graphene Oxide Nanohybrids. <i>Chemistry - A European Journal</i> , 2016, 22, .	1.7	0

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37	Highly Dispersible and Stable Anionic Boron Cluster-Graphene Oxide Nanohybrids. Chemistry - A European Journal, 2016, 22, 5096-5101.	1.7	18
38	Effect of Steam-Treatment Time on the Length and Structure of Single-Walled and Double-Walled Carbon Nanotubes. ChemNanoMat, 2016, 2, 108-116.	1.5	11
39	Synthesis of dry SmCl ₃ from Sm ₂ O ₃ revisited. Implications for the encapsulation of samarium compounds into carbon nanotubes. Polyhedron, 2016, 116, 116-121.	1.0	13
40	Design of antibody-functionalized carbon nanotubes filled with radioactivable metals towards a targeted anticancer therapy. Nanoscale, 2016, 8, 12626-12638.	2.8	28
41	Gadolinium-functionalised multi-walled carbon nanotubes as a T ₁ contrast agent for MRI cell labelling and tracking. Carbon, 2016, 97, 126-133.	5.4	50
42	Quantitative monitoring of the removal of non-encapsulated material external to filled carbon nanotube samples. Physical Chemistry Chemical Physics, 2015, 17, 31662-31669.	1.3	12
43	Spin density wave and superconducting properties of nanoparticle organic conductor assemblies. Physical Review B, 2015, 91, .	1.1	10
44	Cationic Liposome- Multi-Walled Carbon Nanotubes Hybrids for Dual siPLK1 and Doxorubicin Delivery In Vitro. Pharmaceutical Research, 2015, 32, 3293-3308.	1.7	25
45	Vertically Aligned ZnO/In _x S _y Core-Shell Nanorods for High Efficient Dye-Sensitized Solar Cells. Nano, 2015, 10, 1550103.	0.5	4
46	The interaction of carbon nanotubes with an in vitro blood-brain barrier model and mouse brain in vivo. Biomaterials, 2015, 53, 437-452.	5.7	178
47	Functionalization of Carbon Nanotubes. , 2015, , 1-12.		1
48	Ultraviolet pulsed laser irradiation of multi-walled carbon nanotubes in nitrogen atmosphere. Journal of Applied Physics, 2014, 115, 093501.	1.1	27
49	Four Molecular Superconductors Isolated as Nanoparticles. European Journal of Inorganic Chemistry, 2014, 2014, 4010-4016.	1.0	16
50	Production of Water-Soluble Few-Layer Graphene Mesosheets by Dry Milling with Hydrophobic Drug. Langmuir, 2014, 30, 14999-15008.	1.6	10
51	Carbon Nanotubes: Synthesis of PbI ₂ Single-Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes (Adv. Mater. 13/2014). Advanced Materials, 2014, 26, 2108-2108.	11.1	1
52	Synthesis of PbI ₂ Single-Layered Inorganic Nanotubes Encapsulated Within Carbon Nanotubes. Advanced Materials, 2014, 26, 2016-2021.	11.1	52
53	Covalent Functionalization of Multi-Walled Carbon Nanotubes with a Gadolinium Chelate for Efficient T ₁ -Weighted Magnetic Resonance Imaging. Advanced Functional Materials, 2014, 24, 7173-7186.	7.8	31
54	Fieldlike and antidamping spin-orbit torques in as-grown and annealed Ta/CoFeB/MgO layers. Physical Review B, 2014, 89, .	1.1	164

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55	Effect of laser radiation on multi-wall carbon nanotubes: study of shell structure and immobilization process. <i>Journal of Nanoparticle Research</i> , 2013, 15, 1.	0.8	22
56	Fractal porosity in metals synthesized by a simple combustion reaction. <i>RSC Advances</i> , 2013, 3, 2351.	1.7	6
57	Observation of out-of-plane unidirectional anisotropy in MgO-capped planar nanowire arrays of Fe. <i>Journal of Applied Physics</i> , 2013, 114, 133903.	1.1	4
58	Magnetization Reversal Behaviour of Planar Nanowire Arrays of Fe. <i>Current Nanoscience</i> , 2013, 9, 609-614.	0.7	1
59	Fullerenes for Drug Delivery. , 2012, , 898-911.		1
60	Synthesis and characterization of CdSe/ZnS core-shell quantum dots immobilized on solid substrates through laser irradiation. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2012, 209, 2201-2207.	0.8	6
61	Structural and magnetic properties of planar nanowire arrays of Co grown on oxidized vicinal silicon (111) templates. <i>Journal of Applied Physics</i> , 2012, 111, 07E342.	1.1	5
62	Finite Element Methods for Computational Nano-optics. , 2012, , 837-843.		3
63	Functionalization of Carbon Nanotubes. , 2012, , 911-919.		5
64	Fundamental Properties of Zinc Oxide Nanowires. , 2012, , 919-927.		0
65	Magnetic properties of planar nanowire arrays of Co fabricated on oxidized step-bunched silicon templates. <i>Nanotechnology</i> , 2012, 23, 235702.	1.3	16
66	Deposition of functionalized single wall carbon nanotubes through matrix assisted pulsed laser evaporation. <i>Carbon</i> , 2012, 50, 4450-4458.	5.4	36
67	Epitaxial films of the proton-conducting Ca-doped LaNbO ₄ material and a study of their charge transport properties. <i>Solid State Ionics</i> , 2012, 216, 25-30.	1.3	4
68	Heteroepitaxial orientation control of YSZ thin films by selective growth on SrO-, TiO ₂ -terminated SrTiO ₃ crystal surfaces. <i>CrystEngComm</i> , 2011, 13, 1625-1631.	1.3	16
69	Synthesis and Stabilization of Subnanometric Gold Oxide Nanoparticles on Multiwalled Carbon Nanotubes and Their Catalytic Activity. <i>Journal of the American Chemical Society</i> , 2011, 133, 10251-10261.	6.6	87
70	Synthesis and Laser Immobilization onto Solid Substrates of CdSe/ZnS Core-shell Quantum Dots. <i>Journal of Physical Chemistry C</i> , 2011, 115, 15210-15216.	1.5	16
71	Sidewall functionalisation of carbon nanotubes by addition of diarylcarbene derivatives. <i>Journal of Materials Chemistry</i> , 2011, 21, 19080.	6.7	21
72	One-dimensional composites based on single walled carbon nanotubes and poly(o-phenylenediamine). <i>Synthetic Metals</i> , 2011, 161, 2344-2354.	2.1	14

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73	Zinc oxide/carboxylic acid lamellar structures. <i>Materials Research Bulletin</i> , 2011, 46, 2191-2195.	2.7	19
74	Synthesis conditions, light intensity and temperature effect on the performance of ZnO nanorods-based dye sensitized solar cells. <i>Journal of Power Sources</i> , 2011, 196, 6609-6621.	4.0	47
75	Orbital moment anisotropy of Pt/Co/AlO _x heterostructures with strong Rashba interaction. <i>Physical Review B</i> , 2011, 84, .	1.1	25
76	Synthesis and characterization of WS ₂ inorganic nanotubes with encapsulated/intercalated Csl. <i>Nano Research</i> , 2010, 3, 170-173.	5.8	14
77	pH-triggered release of materials from single-walled carbon nanotubes using dimethylamino-functionalized fullerenes as removable "corks". <i>Carbon</i> , 2010, 48, 1912-1917.	5.4	38
78	Carbon nanocapsules: blocking materials inside carbon nanotubes. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2010, 7, 2739-2742.	0.8	11
79	Filled and glycosylated carbon nanotubes for in vivo radioemitter localization and imaging. <i>Nature Materials</i> , 2010, 9, 485-490.	13.3	267
80	Enhanced Sidewall Functionalization of Single-Wall Carbon Nanotubes Using Nitric Acid. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6072-6077.	0.9	11
81	Core-Shell Pb ₂ @WS ₂ Inorganic Nanotubes from Capillary Wetting. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 1230-1233.	7.2	56
82	Quantitative Assessment of the Amount of Material Encapsulated in Filled Carbon Nanotubes. <i>Journal of Physical Chemistry C</i> , 2009, 113, 2653-2656.	1.5	27
83	Spray deposition of steam treated and functionalized single-walled and multi-walled carbon nanotube films for supercapacitors. <i>Nanotechnology</i> , 2009, 20, 065605.	1.3	93
84	Steam Purification for the Removal of Graphitic Shells Coating Catalytic Particles and the Shortening of Single-Walled Carbon Nanotubes. <i>Small</i> , 2008, 4, 1501-1506.	5.2	76
85	Fabrication of carbon-nanotube-reinforced glass-ceramic nanocomposites by ultrasonic in situ sol-gel processing. <i>Journal of Materials Chemistry</i> , 2008, 18, 5344.	6.7	59
86	Electrochemical Opening of Single-Walled Carbon Nanotubes Filled with Metal Halides and with Closed Ends. <i>Journal of Physical Chemistry C</i> , 2008, 112, 10389-10397.	1.5	49
87	Removal of amorphous carbon for the efficient sidewall functionalisation of single-walled carbon nanotubes. <i>Chemical Communications</i> , 2007, , 5090.	2.2	108
88	LSCM-(YSZ-CGO) composites as improved symmetrical electrodes for solid oxide fuel cells. <i>Journal of the European Ceramic Society</i> , 2007, 27, 4223-4227.	2.8	79
89	Atomic-Scale Detection of Organic Molecules Coupled to Single-Walled Carbon Nanotubes. <i>Journal of the American Chemical Society</i> , 2007, 129, 10966-10967.	6.6	63
90	Ionic and Electronic Conductivity of 5% Ca-Doped GdNbO ₄ . <i>Journal of the Electrochemical Society</i> , 2006, 153, J87.	1.3	21