

Alejandro Ansã³n-Casaos

List of Publications by Year in descending order

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100
papers

3,862
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109137

35
h-index

133063

59
g-index

101
all docs

101
docs citations

101
times ranked

5296
citing authors

#	ARTICLE	IF	CITATIONS
1	Development and characterization of PEEK/carbon nanotube composites. Carbon, 2009, 47, 3079-3090.	5.4	170
2	Effect of carbon nanotube type and functionalization on the electrical, thermal, mechanical and electromechanical properties of carbon nanotube/styrene-butadiene-styrene composites for large strain sensor applications. Composites Part B: Engineering, 2014, 61, 136-146.	5.9	166
3	Hydrogen adsorption studies on single wall carbon nanotubes. Carbon, 2004, 42, 1243-1248.	5.4	154
4	Tribological and mechanical properties of graphene nanoplatelet/PEEK composites. Carbon, 2019, 141, 107-122.	5.4	143
5	Hydrogen Capacity of Palladium-Loaded Carbon Materials. Journal of Physical Chemistry B, 2006, 110, 6643-6648.	1.2	138
6	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. Sensors and Actuators A: Physical, 2012, 178, 10-16.	2.0	124
7	Single-Walled Carbon Nanotubes as Electrodes in Supercapacitors. Journal of the Electrochemical Society, 2004, 151, A831.	1.3	118
8	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-II. Mechanical and electrical properties. Carbon, 2010, 48, 3500-3511.	5.4	114
9	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. Journal of Physical Chemistry B, 2004, 108, 15820-15826.	1.2	112
10	The effect of gamma-irradiation on few-layered graphene materials. Applied Surface Science, 2014, 301, 264-272.	3.1	104
11	Modifications of single-wall carbon nanotubes upon oxidative purification treatments. Nanotechnology, 2003, 14, 691-695.	1.3	102
12	Adsorption of ethane and ethylene on modified ETS-10. Chemical Engineering Science, 2008, 63, 4171-4175.	1.9	94
13	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-I. Structure and thermal properties. Carbon, 2010, 48, 3485-3499.	5.4	88
14	The influence of a compatibilizer on the thermal and dynamic mechanical properties of PEEK/carbon nanotube composites. Nanotechnology, 2009, 20, 315707.	1.3	87
15	Frictional and mechanical behaviour of graphene/UHMWPE composite coatings. Tribology International, 2017, 116, 295-302.	3.0	84
16	Influence of size and oxidative treatments of multi-walled carbon nanotubes on their electrocatalytic properties. Electrochimica Acta, 2012, 62, 163-171.	2.6	79
17	Solvent-Free Preparation of High-Toughness Epoxy/SWNT Composite Materials. ACS Applied Materials & Interfaces, 2011, 3, 1441-1450.	4.0	70
18	Carbon Nanotube Effect on Polyaniline Morphology in Water Dispersible Composites. Journal of Physical Chemistry B, 2010, 114, 1579-1585.	1.2	64

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19	Adsorption of carbon dioxide, ethane, and methane on titanosilicate type molecular sieves. <i>Chemical Engineering Science</i> , 2009, 64, 3683-3687.	1.9	63
20	Effect of Various Aminated Single-Walled Carbon Nanotubes on the Epoxy Cross-Linking Reactions. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7238-7248.	1.5	63
21	Covalent functionalization of MWCNTs with poly(p-phenylene sulphide) oligomers: a route to the efficient integration through a chemical approach. <i>Journal of Materials Chemistry</i> , 2012, 22, 21285.	6.7	58
22	Xenon Adsorption on Modified ETS-10. <i>Journal of Physical Chemistry C</i> , 2007, 111, 1560-1562.	1.5	57
23	Dielectric behavior and electrical conductivity of PVDF filled with functionalized single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2017, 152, 263-274.	3.8	57
24	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. <i>Carbon</i> , 2013, 61, 568-576.	5.4	53
25	DFT-Based Prediction of High-Pressure H ₂ Adsorption on Porous Carbons at Ambient Temperatures from Low-Pressure Adsorption Data Measured at 77 K. <i>Journal of Physical Chemistry B</i> , 2006, 110, 4531-4534.	1.2	52
26	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. <i>Catalysis Today</i> , 2020, 357, 350-360.	2.2	50
27	Hydrogen adsorption on a single-walled carbon nanotube material: a comparative study of three different adsorption techniques. <i>Nanotechnology</i> , 2004, 15, 1503-1508.	1.3	48
28	Grafting of a hydroxylated poly(ether ether ketone) to the surface of single-walled carbon nanotubes. <i>Journal of Materials Chemistry</i> , 2010, 20, 8285.	6.7	48
29	Preparation of a TiO ₂ @MoS ₂ nanoparticle-based composite by solvothermal method with enhanced photoactivity for the degradation of organic molecules in water under UV light. <i>Micro and Nano Letters</i> , 2011, 6, 932.	0.6	47
30	Characterization and performance evaluation of Pt@Ru electrocatalysts supported on different carbon materials for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 910-920.	3.8	47
31	Densities and Viscosities of Binary Mixtures of 1-Chlorobutane with Butanol Isomers at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 677-682.	1.0	44
32	Surfactant-free assembling of functionalized single-walled carbon nanotube buckypapers. <i>Carbon</i> , 2010, 48, 1480-1488.	5.4	44
33	Adsorption of argon, oxygen, and nitrogen on silver exchanged ETS-10 molecular sieve. <i>Microporous and Mesoporous Materials</i> , 2008, 109, 577-580.	2.2	41
34	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> , 2018, 301, 2-10.	2.2	40
35	Combined modification of a TiO ₂ photocatalyst with two different carbon forms. <i>Applied Surface Science</i> , 2013, 270, 675-684.	3.1	36
36	Single-walled carbon nanotubes covalently functionalized with cysteine: A new alternative for the highly sensitive and selective Cd(II) quantification. <i>Sensors and Actuators B: Chemical</i> , 2017, 249, 506-514.	4.0	35

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37	Separation of ethylene/ethane mixtures by adsorption on small-pored titanosilicate molecular sieves. <i>Chemical Engineering Science</i> , 2010, 65, 807-811.	1.9	34
38	Densities and Viscosities of Binary Mixtures of 1-Bromobutane with Butanol Isomers at Several Temperatures. <i>Journal of Chemical & Engineering Data</i> , 2005, 50, 1478-1483.	1.0	33
39	Covalent functionalization of single-walled carbon nanotubes with polytyrosine: Characterization and analytical applications for the sensitive quantification of polyphenols. <i>Analytica Chimica Acta</i> , 2016, 909, 51-59.	2.6	33
40	High NIR-purity index single-walled carbon nanotubes for electrochemical sensing in microfluidic chips. <i>Lab on A Chip</i> , 2012, 12, 2006.	3.1	32
41	Hydrothermal synthesis of 1D TiO ₂ nanostructures for dye sensitized solar cells. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2012, 177, 19-26.	1.7	32
42	Understanding Carbonâ€™Carbon Composites as Electrodes of Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2007, 154, A579.	1.3	31
43	Epoxy composites with covalently anchored amino-functionalized SWNTs: towards the tailoring of physical properties through targeted functionalization. <i>Journal of Materials Chemistry</i> , 2011, 21, 14948.	6.7	31
44	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. <i>Biomacromolecules</i> , 2019, 20, 3147-3160.	2.6	30
45	Enhanced hydrogen adsorption on single-wall carbon nanotubes by sample reduction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2004, 108, 120-123.	1.7	29
46	Electrochemical sensing of guanine, adenine and 8-hydroxy-2â€™-deoxyguanosine at glassy carbon modified with single-walled carbon nanotubes covalently functionalized with lysine. <i>RSC Advances</i> , 2016, 6, 13469-13477.	1.7	29
47	Evaluation of solâ€™gel TiO ₂ photocatalysts modified with carbon or boron compounds and crystallized in nitrogen or air atmospheres. <i>Chemical Engineering Journal</i> , 2015, 277, 11-20.	6.6	26
48	Preparation of palladium loaded carbon nanotubes and activated carbons for hydrogen sorption. <i>Journal of Alloys and Compounds</i> , 2007, 436, 294-297.	2.8	25
49	Separation of single-walled carbon nanotubes from graphite by centrifugation in a surfactant or in polymer solutions. <i>Carbon</i> , 2010, 48, 2917-2924.	5.4	25
50	Optical absorption response of chemically modified single-walled carbon nanotubes upon ultracentrifugation in various dispersants. <i>Carbon</i> , 2014, 66, 105-118.	5.4	25
51	Wrapping of SWCNTs in Polyethylenoxide-Based Amphiphilic Diblock Copolymers: An Approach to Purification, Debundling, and Integration into the Epoxy Matrix. <i>Journal of Physical Chemistry C</i> , 2012, 116, 7399-7408.	1.5	24
52	Peptide-based biomaterials. Linking l-tyrosine and poly l-tyrosine to graphene oxide nanoribbons. <i>Journal of Materials Chemistry B</i> , 2015, 3, 3870-3884.	2.9	24
53	Cysteine functionalized bio-nanomaterial for the affinity sensing of Pb(II) as an indicator of environmental damage. <i>Microchemical Journal</i> , 2018, 141, 271-278.	2.3	24
54	Intrinsic and selective activity of functionalized carbon nanotube/nanocellulose platforms against colon cancer cells. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022, 212, 112363.	2.5	24

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55	Influence of Air Oxidation on the Surfactant-Assisted Purification of Single-Walled Carbon Nanotubes. <i>Langmuir</i> , 2011, 27, 7192-7198.	1.6	22
56	Electrochemical synthesis and characterization of single-walled carbon nanotubes/polypyrrole films on transparent substrates. <i>Electrochimica Acta</i> , 2012, 64, 1-9.	2.6	22
57	Single-walled carbon nanotube buckypapers as electrocatalyst supports for methanol oxidation. <i>Journal of Power Sources</i> , 2013, 242, 7-14.	4.0	22
58	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 11474-11484.	1.3	21
59	Anatase nanotubes synthesized by a template method and their application as a green photocatalyst. <i>Journal of Materials Science</i> , 2011, 46, 2097-2104.	1.7	19
60	Tailored SWCNT functionalization optimized for compatibility with epoxy matrices. <i>Nanotechnology</i> , 2012, 23, 285701.	1.3	19
61	Electrochemical behaviour of different redox probes on single wall carbon nanotube buckypaper-modified electrodes. <i>Electrochimica Acta</i> , 2014, 135, 404-411.	2.6	18
62	Choosing the Chemical Route for Carbon Nanotube Integration in Poly(vinylidene fluoride). <i>Journal of Physical Chemistry C</i> , 2012, 116, 16217-16225.	1.5	16
63	Functionalized carbon dots on TiO ₂ for perovskite photovoltaics and stable photoanodes for water splitting. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 12180-12191.	3.8	15
64	Integration of block copolymer-wrapped single-wall carbon nanotubes into a trifunctional epoxy resin. Influence on thermal performance. <i>Polymer Degradation and Stability</i> , 2010, 95, 2065-2075.	2.7	14
65	Reactive fillers based on SWCNTs functionalized with matrix-based moieties for the production of epoxy composites with superior and tunable properties. <i>Nanotechnology</i> , 2012, 23, 285702.	1.3	14
66	Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine: Synthesis, Characterization and Analytical Applications for the Development of Electrochemical (Bio)Sensors. <i>Electroanalysis</i> , 2014, 26, 1676-1683.	1.5	14
67	Electrochemical Sensor for the Quantification of Dopamine Using Glassy Carbon Electrodes Modified with Single-Wall Carbon Nanotubes Covalently Functionalized with Polylysine. <i>Electroanalysis</i> , 2015, 27, 1565-1571.	1.5	13
68	Transparent conducting films made of different carbon nanotubes, processed carbon nanotubes, and graphene nanoribbons. <i>Chemical Engineering Science</i> , 2015, 138, 566-574.	1.9	13
69	Block Copolymer Assisted Dispersion of Single Walled Carbon Nanotubes and Integration into a Trifunctional Epoxy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009, 9, 6104-6112.	0.9	11
70	Separation of Argon and Oxygen by Adsorption on a Titanosilicate Molecular Sieve. <i>Separation Science and Technology</i> , 2009, 44, 1604-1620.	1.3	11
71	Study of neuron survival on polypyrrole-embedded single-walled carbon nanotube substrates for long-term growth conditions. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, n/a-n/a.	2.1	11
72	Activated carbon from cherry stones by chemical activation: Influence of the impregnation method on porous structure. <i>Journal of Wood Chemistry and Technology</i> , 2017, 37, 148-162.	0.9	11

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73	Chemical Postdeposition Treatments To Improve the Adhesion of Carbon Nanotube Films on Plastic Substrates. ACS Omega, 2019, 4, 2804-2811.	1.6	11
74	Electrochemical behavior of hybrid carbon nanomaterials: the chemistry behind electrochemistry. Electrochimica Acta, 2016, 214, 286-294.	2.6	10
75	Photoactivity improvement of TiO ₂ electrodes by thin hole transport layers of reduced graphene oxide. Electrochimica Acta, 2019, 298, 279-287.	2.6	10
76	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. Physical Chemistry Chemical Physics, 2019, 21, 4063-4071.	1.3	9
77	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. Nanomaterials, 2021, 11, 1435.	1.9	9
78	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.	1.5	9
79	Formamidineum halide salts as precursors of carbon nitrides. Carbon, 2022, 196, 1035-1046.	5.4	9
80	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotube-epoxy composites. Journal of Intelligent Material Systems and Structures, 2012, 23, 909-917.	1.4	8
81	A chemically reactive spinning dope for significant improvements in wet spun carbon nanotube fibres. Chemical Communications, 2013, 49, 3973.	2.2	8
82	Electrochemical characterization of oligonucleotide-carbon nanotube functionalized using different strategies. Electrochimica Acta, 2014, 140, 489-496.	2.6	8
83	Carbon Nanotube Film Electrodes with Acrylic Additives: Blocking Electrochemical Charge Transfer Reactions. Nanomaterials, 2020, 10, 1078.	1.9	8
84	Chemical upgrading of sedimentary Na-Chabazite from Bowie, Arizona. Clays and Clay Minerals, 2007, 55, 235-238.	0.6	7
85	XPS Characterization of Silver Exchanged ETS-10 and Mordenite Molecular Sieves. Journal of Nanoscience and Nanotechnology, 2009, 9, 3134-3137.	0.9	7
86	The influence of the impregnation method on yield of activated carbon produced by H ₃ PO ₄ activation. Materials Letters, 2011, 65, 1423-1426.	1.3	7
87	Effects of argon ion sputtering on the surface of graphene/polyethylene composites. Surface and Coatings Technology, 2019, 374, 1059-1070.	2.2	7
88	In vitro toxicity of carbon nanotube/polylysine colloids to colon cancer cells. IET Nanobiotechnology, 2016, 10, 374-381.	1.9	6
89	Electron Trap States and Photopotential of Nanocrystalline Titanium Dioxide Electrodes Filled with Single-Walled Carbon Nanotubes. ChemElectroChem, 2017, 4, 2300-2307.	1.7	6
90	SWCNTs AS ELECTRON WITHDRAWERS IN NANOCRYSTALLINE ANATASE PHOTOCATALYSTS. Nano, 2012, 07, 1250020.	0.5	5

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91	Single-Walled Carbon Nanotubes (SWCNTs) Enhance KCl-, Acetylcholine-, and Serotonin-Induced Contractions and Evoke Oxidative Stress on Rabbit Ileum. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 529-542.	0.5	5
92	Capacitive and Charge Transfer Effects of Single-Walled Carbon Nanotubes in TiO ₂ Electrodes. <i>ChemPhysChem</i> , 2019, 20, 838-847.	1.0	5
93	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 185, 110612.	2.5	5
94	Deeping into the microporosity of porous silicates Ti- and Sn-umbite. <i>Microporous and Mesoporous Materials</i> , 2011, 142, 649-654.	2.2	3
95	Electrical conductivity and tensile properties of block copolymer-wrapped single-walled carbon nanotube/poly(methyl methacrylate) composites. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	3
96	Charge-transfer characteristics in carbon nanostructure/metal oxide photoelectrodes efficiently probed by hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2018, 828, 86-90.	1.9	3
97	Double resonance features in the Raman spectrum of carbon nanotubes. <i>Physical Review B</i> , 2004, 70, .	1.1	2
98	Nanostructured Carbon Materials: Synthesis and Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018, , 177-191.	0.2	0
99	Preparation of Metallic and Semiconducting SWCNT Inks by a Simple Chromatographic Method: A Two-Parameter Study. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018, , 229-238.	0.2	0
100	Rational description and modelling of the separation of nanotubes from solid nanoparticles in centrifugation processes. <i>Carbon Trends</i> , 2021, 5, 100084.	1.4	0