

Alejandro Ansn-Casaos

List of Publications by Citations

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100
papers

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h-index

54
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101
ext. papers

3,559
ext. citations

5.1
avg, IF

5.06
L-index

#	Paper	IF	Citations
100	Development and characterization of PEEK/carbon nanotube composites. <i>Carbon</i> , 2009 , 47, 3079-3090	10.4	145
99	Hydrogen adsorption studies on single wall carbon nanotubes. <i>Carbon</i> , 2004 , 42, 1243-1248	10.4	140
98	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. <i>Composites Part B: Engineering</i> , 2014 , 61, 136-146	10	135
97	Hydrogen capacity of palladium-loaded carbon materials. <i>Journal of Physical Chemistry B</i> , 2006 , 110, 6643-6	3.8	129
96	Electromechanical performance of poly(vinylidene fluoride)/carbon nanotube composites for strain sensor applications. <i>Sensors and Actuators A: Physical</i> , 2012 , 178, 10-16	3.9	110
95	Single-Walled Carbon Nanotubes as Electrodes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2004 , 151, A831	3.9	110
94	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. <i>Journal of Physical Chemistry B</i> , 2004 , 108, 15820-15826	3.4	107
93	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-II. Mechanical and electrical properties. <i>Carbon</i> , 2010 , 48, 3500-3511	10.4	104
92	Modifications of single-wall carbon nanotubes upon oxidative purification treatments. <i>Nanotechnology</i> , 2003 , 14, 691-695	3.4	95
91	Tribological and mechanical properties of graphene nanoplatelet/PEEK composites. <i>Carbon</i> , 2019 , 141, 107-122	10.4	85
90	Adsorption of ethane and ethylene on modified ETS-10. <i>Chemical Engineering Science</i> , 2008 , 63, 4171-4175	4.5	81
89	The effect of gamma-irradiation on few-layered graphene materials. <i>Applied Surface Science</i> , 2014 , 301, 264-272	6.7	79
88	High performance PEEK/carbon nanotube composites compatibilized with polysulfones-I. Structure and thermal properties. <i>Carbon</i> , 2010 , 48, 3485-3499	10.4	75
87	The influence of a compatibilizer on the thermal and dynamic mechanical properties of PEEK/carbon nanotube composites. <i>Nanotechnology</i> , 2009 , 20, 315707	3.4	73
86	Influence of size and oxidative treatments of multi-walled carbon nanotubes on their electrocatalytic properties. <i>Electrochimica Acta</i> , 2012 , 62, 163-171	6.7	69
85	Solvent-free preparation of high-toughness epoxy-SWNT composite materials. <i>ACS Applied Materials & Interfaces</i> , 2011 , 3, 1441-50	9.5	64
84	Frictional and mechanical behaviour of graphene/UHMWPE composite coatings. <i>Tribology International</i> , 2017 , 116, 295-302	4.9	62

83	Carbon nanotube effect on polyaniline morphology in water dispersible composites. <i>Journal of Physical Chemistry B</i> , 2010 , 114, 1579-85	3.4	62
82	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	3.8	58
81	Adsorption of carbon dioxide, ethane, and methane on titanosilicate type molecular sieves. <i>Chemical Engineering Science</i> , 2009 , 64, 3683-3687	4.4	56
80	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		53
79	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, 4531-4	3.4	50
78	Relationship between electromechanical response and percolation threshold in carbon nanotube/poly(vinylidene fluoride) composites. <i>Carbon</i> , 2013 , 61, 568-576	10.4	48
77	Hydrogen adsorption on a single-walled carbon nanotube material: a comparative study of three different adsorption techniques. <i>Nanotechnology</i> , 2004 , 15, 1503-1508	3.4	45
76	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	0.9	44
75	Xenon Adsorption on Modified ETS-10. <i>Journal of Physical Chemistry C</i> , 2007 , 111, 1560-1562	3.8	43
74	Surfactant-free assembling of functionalized single-walled carbon nanotube buckypapers. <i>Carbon</i> , 2010 , 48, 1480-1488	10.4	41
73	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	2.8	41
72	Characterization and performance evaluation of PtRu electrocatalysts supported on different carbon materials for direct methanol fuel cells. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 910-920	6.7	40
71	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		36
70	Adsorption of argon, oxygen, and nitrogen on silver exchanged ETS-10 molecular sieve. <i>Microporous and Mesoporous Materials</i> , 2008 , 109, 577-580	5.3	35
69	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	8.5	32
68	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. <i>Catalysis Today</i> , 2020 , 357, 350-360	5.3	31
67	Dielectric behavior and electrical conductivity of PVDF filled with functionalized single-walled carbon nanotubes. <i>Composites Science and Technology</i> , 2017 , 152, 263-274	8.6	30
66	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	3.1	30

65	Combined modification of a TiO ₂ photocatalyst with two different carbon forms. <i>Applied Surface Science</i> , 2013 , 270, 675-684	6.7	30
64	Understanding Carbon-Carbon Composites as Electrodes of Supercapacitors. <i>Journal of the Electrochemical Society</i> , 2007 , 154, A579	3.9	30
63	High NIR-purity index single-walled carbon nanotubes for electrochemical sensing in microfluidic chips. <i>Lab on A Chip</i> , 2012 , 12, 2006-14	7.2	29
62	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		29
61	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	2.8	29
60	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, 51-9	6.6	27
59	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	5.3	26
58	Electrochemical sensing of guanine, adenine and 8-hydroxy-2'-deoxyguanosine at glassy carbon modified with single-walled carbon nanotubes covalently functionalized with lysine. <i>RSC Advances</i> , 2016 , 6, 13469-13477	3.7	25
57	Separation of ethylene/ethane mixtures by adsorption on small-pored titanosilicate molecular sieves. <i>Chemical Engineering Science</i> , 2010 , 65, 807-811	4.4	25
56	Preparation of palladium loaded carbon nanotubes and activated carbons for hydrogen sorption. <i>Journal of Alloys and Compounds</i> , 2007 , 436, 294-297	5.7	25
55	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	3.1	25
54	Separation of single-walled carbon nanotubes from graphite by centrifugation in a surfactant or in polymer solutions. <i>Carbon</i> , 2010 , 48, 2917-2924	10.4	24
53	Optical absorption response of chemically modified single-walled carbon nanotubes upon ultracentrifugation in various dispersants. <i>Carbon</i> , 2014 , 66, 105-118	10.4	23
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	7.3	22
51	Influence of air oxidation on the surfactant-assisted purification of single-walled carbon nanotubes. <i>Langmuir</i> , 2011 , 27, 7192-8	4	22
50	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	3.8	21
49	Evaluation of soluble 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	14.7	20
48	Single-walled carbon nanotube buckypapers as electrocatalyst supports for methanol oxidation. <i>Journal of Power Sources</i> , 2013 , 242, 7-14	8.9	19

47	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	4.8	18
46	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. <i>Biomacromolecules</i> , 2019 , 20, 3147-3160	6.9	18
45	Anatase nanotubes synthesized by a template method and their application as a green photocatalyst. <i>Journal of Materials Science</i> , 2011 , 46, 2097-2104	4.3	18
44	Electrochemical synthesis and characterization of single-walled carbon nanotubes/polypyrrole films on transparent substrates. <i>Electrochimica Acta</i> , 2012 , 64, 1-9	6.7	17
43	Tailored SWCNT functionalization optimized for compatibility with epoxy matrices. <i>Nanotechnology</i> , 2012 , 23, 285701	3.4	17
42	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. <i>Physical Chemistry Chemical Physics</i> , 2020 , 22, 11474-11484	3.6	15
41	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	4.7	14
40	Transparent conducting films made of different carbon nanotubes, processed carbon nanotubes, and graphene nanoribbons. <i>Chemical Engineering Science</i> , 2015 , 138, 566-574	4.4	13
39	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	3	13
38	Electrochemical behaviour of different redox probes on single wall carbon nanotube buckypaper-modified electrodes. <i>Electrochimica Acta</i> , 2014 , 135, 404-411	6.7	13
37	Choosing the Chemical Route for Carbon Nanotube Integration in Poly(vinylidene fluoride). <i>Journal of Physical Chemistry C</i> , 2012 , 116, 16217-16225	3.8	13
36	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	3.4	11
35	Block copolymer assisted dispersion of single walled carbon nanotubes and integration into a trifunctional epoxy. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 6104-12	1.3	11
34	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, 4443-54	5.4	10
33	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	3	10
32	Electrochemical behavior of hybrid carbon nanomaterials: the chemistry behind electrochemistry. <i>Electrochimica Acta</i> , 2016 , 214, 286-294	6.7	8
31	Electrochemical characterization of oligonucleotide-carbon nanotube functionalized using different strategies. <i>Electrochimica Acta</i> , 2014 , 140, 489-496	6.7	8
30	A chemically reactive spinning dope for significant improvements in wet spun carbon nanotube fibres. <i>Chemical Communications</i> , 2013 , 49, 3973-5	5.8	8

29	Separation of Argon and Oxygen by Adsorption on a Titanosilicate Molecular Sieve. <i>Separation Science and Technology</i> , 2009 , 44, 1604-1620	2.5	8
28	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	6.7	8
27	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 4063-4071	3.6	7
26	Piezoresistive response of Pluronic-wrapped single-wall carbon nanotube/epoxy composites. <i>Journal of Intelligent Material Systems and Structures</i> , 2012 , 23, 909-917	2.3	7
25	Carbon Nanotube Film Electrodes with Acrylic Additives: Blocking Electrochemical Charge Transfer Reactions. <i>Nanomaterials</i> , 2020 , 10,	5.4	6
24	In-vitro toxicity of carbon nanotube/polylysine colloids to colon cancer cells. <i>IET Nanobiotechnology</i> , 2016 , 10, 374-381	2	6
23	The influence of the impregnation method on yield of activated carbon produced by H ₃ PO ₄ activation. <i>Materials Letters</i> , 2011 , 65, 1423-1426	3.3	6
22	XPS characterization of silver exchanged ETS-10 and mordenite molecular sieves. <i>Journal of Nanoscience and Nanotechnology</i> , 2009 , 9, 3134-7	1.3	6
21	Chemical upgrading of sedimentary Na-chabazite from Bowie, Arizona. <i>Clays and Clay Minerals</i> , 2007 , 55, 235-238	2.1	6
20	Photoactivity improvement of TiO ₂ electrodes by thin hole transport layers of reduced graphene oxide. <i>Electrochimica Acta</i> , 2019 , 298, 279-287	6.7	6
19	Capacitive and Charge Transfer Effects of Single-Walled Carbon Nanotubes in TiO Electrodes. <i>ChemPhysChem</i> , 2019 , 20, 838-847	3.2	5
18	Effects of argon ion sputtering on the surface of graphene/polyethylene composites. <i>Surface and Coatings Technology</i> , 2019 , 374, 1059-1070	4.4	5
17	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, 529-42	4	5
16	SWCNTs AS ELECTRON WITHDRAWERS IN NANOCRYSTALLINE ANATASE PHOTOCATALYSTS. <i>Nano</i> , 2012 , 07, 1250020	1.1	5
15	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 185, 110612	6	5
14	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	2	4
13	Chemical Postdeposition Treatments To Improve the Adhesion of Carbon Nanotube Films on Plastic Substrates. <i>ACS Omega</i> , 2019 , 4, 2804-2811	3.9	4
12	Modification of Physicochemical Properties and Boosting Electrical Conductivity of Reduced Graphene Oxide Aerogels by Postsynthesis Treatment. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 13739-13752 ^{3,8,4}	3.8	4

11	Deeping into the microporosity of porous silicates Ti- and Sn-umbite. <i>Microporous and Mesoporous Materials</i> , 2011 , 142, 649-654	5.3	3
10	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. <i>Nanomaterials</i> , 2021 , 11,	5.4	3
9	Charge-transfer characteristics in carbon nanostructure/metal oxide photoelectrodes efficiently probed by hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , 2018 , 828, 86-90	4.1	3
8	Electron Trap States and Photopotential of Nanocrystalline Titanium Dioxide Electrodes Filled with Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , 2017 , 4, 2300-2307	4.3	2
7	Double resonance features in the Raman spectrum of carbon nanotubes. <i>Physical Review B</i> , 2004 , 70,	3.3	2
6	Intrinsic and selective activity of functionalized carbon nanotube/nanocellulose platforms against colon cancer cells.. <i>Colloids and Surfaces B: Biointerfaces</i> , 2022 , 212, 112363	6	2
5	Functionalization Strategies for Single-Walled Carbon Nanotubes Integration into Epoxy Matrices 2014 , 45-116		1
4	Electrical conductivity and tensile properties of block-copolymer-wrapped single-walled carbon nanotube/poly(methyl methacrylate) composites. <i>Journal of Applied Polymer Science</i> , 2014 , 132, n/a-n/a ^{2.9}		1
3	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}		
2	Nanostructured Carbon Materials: Synthesis and Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , 2018 , 177-191	0.2	
1	Rational description and modelling of the separation of nanotubes from solid nanoparticles in centrifugation processes. <i>Carbon Trends</i> , 2021 , 5, 100084	0	