

# Ana Benito

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/6537134/ana-benito-publications-by-citations.pdf>

**Version:** 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

174  
papers

6,153  
citations

42  
h-index

73  
g-index

191  
ext. papers

6,681  
ext. citations

5.6  
avg, IF

5.41  
L-index

#	Paper	IF	Citations
174	Synthesis of a new polyaniline/nanotube composite: In-situ polymerisation and charge transfer through site-selective interaction. <i>Chemical Communications</i> , <b>2001</b> , 1450-1451	5.8	411
173	Sensitivity of single wall carbon nanotubes to oxidative processing: structural modification, intercalation and functionalisation. <i>Carbon</i> , <b>2003</b> , 41, 2247-2256	10.4	305
172	Improving the mechanical properties of graphene oxide based materials by covalent attachment of polymer chains. <i>Carbon</i> , <b>2013</b> , 52, 363-371	10.4	211
171	Production of high-density single-walled nanotube material by a simple laser-ablation method. <i>Chemical Physics Letters</i> , <b>1998</b> , 292, 587-593	2.5	201
170	Pyrolytically grown BxCyNz nanomaterials: nanofibres and nanotubes. <i>Chemical Physics Letters</i> , <b>1996</b> , 257, 576-582	2.5	200
169	Flexible conductive graphene paper obtained by direct and gentle annealing of graphene oxide paper. <i>Carbon</i> , <b>2012</b> , 50, 835-844	10.4	182
168	Hydrogen sensors based on carbon nanotubes thin films. <i>Synthetic Metals</i> , <b>2005</b> , 148, 15-19	3.6	166
167	Supramolecular-Enhanced Charge Transfer within Entangled Polyamide Chains as the Origin of the Universal Blue Fluorescence of Polymer Carbon Dots. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 12862-12869	16.4	166
166	Soluble Self-Aligned Carbon Nanotube/Polyaniline Composites. <i>Advanced Materials</i> , <b>2005</b> , 17, 278-281	24	161
165	Hydrogen adsorption studies on single wall carbon nanotubes. <i>Carbon</i> , <b>2004</b> , 42, 1243-1248	10.4	140
164	Hydrogen capacity of palladium-loaded carbon materials. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 6643-6	3.8	129
163	Graphene-based potentiometric biosensor for the immediate detection of living bacteria. <i>Biosensors and Bioelectronics</i> , <b>2014</b> , 54, 553-7	11.8	117
162	Single-Walled Carbon Nanotubes as Electrodes in Supercapacitors. <i>Journal of the Electrochemical Society</i> , <b>2004</b> , 151, A831	3.9	110
161	Porosity, Surface Area, Surface Energy, and Hydrogen Adsorption in Nanostructured Carbons. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 15820-15826	3.4	107
160	Carbon nanotube networks as gas sensors for NO <sub>2</sub> detection. <i>Talanta</i> , <b>2008</b> , 77, 758-764	6.2	100
159	Simultaneous Reduction of Graphene Oxide and Polyaniline: Doping-Assisted Formation of a Solid-State Charge-Transfer Complex. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 10468-10474	3.8	97
158	Diameter distribution of single wall carbon nanotubes in nanobundles. <i>European Physical Journal B</i> , <b>2000</b> , 18, 201-205	1.2	97

157	Modifications of single-wall carbon nanotubes upon oxidative purification treatments. <i>Nanotechnology</i> , <b>2003</b> , 14, 691-695	3.4	95
156	Synthesis and characterization of new polyaniline/nanotube composites. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 87-91	8.3	94
155	A novel amperometric biosensor based on gold nanoparticles anchored on reduced graphene oxide for sensitive detection of l-lactate tumor biomarker. <i>Biosensors and Bioelectronics</i> , <b>2015</b> , 69, 280-6	11.8	86
154	Carbon nanotubes production by catalytic pyrolysis of benzene. <i>Carbon</i> , <b>1998</b> , 36, 681-683	10.4	86
153	Reduced Graphene Oxide Films as Solid Transducers in Potentiometric All-Solid-State Ion-Selective Electrodes. <i>Journal of Physical Chemistry C</i> , <b>2012</b> , 116, 22570-22578	3.8	85
152	A soluble and highly functional polyaniline-carbon nanotube composite. <i>Nanotechnology</i> , <b>2005</b> , 16, S150-S154	3.154	85
151	Novel selective sensors based on carbon nanotube films for hydrogen detection. <i>Sensors and Actuators B: Chemical</i> , <b>2007</b> , 122, 75-80	8.5	84
150	The effect of gamma-irradiation on few-layered graphene materials. <i>Applied Surface Science</i> , <b>2014</b> , 301, 264-272	6.7	79
149	Thermal cracking of coal residues: Kinetics of asphaltene decomposition. <i>Fuel</i> , <b>1997</b> , 76, 871-877	7.1	74
148	Raman characterization of singlewalled carbon nanotubes and PMMA-nanotubes composites. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2510-2512	3.6	63
147	Carbon nanotube effect on polyaniline morphology in water dispersible composites. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 1579-85	3.4	62
146	Carbon nanotube Y junctions: growth and properties. <i>Diamond and Related Materials</i> , <b>2004</b> , 13, 241-249	3.5	60
145	The influence of single-walled carbon nanotube functionalization on the electronic properties of their polyaniline composites. <i>Carbon</i> , <b>2008</b> , 46, 1909-1917	10.4	58
144	Microwave single walled carbon nanotubes purification. <i>Chemical Communications</i> , <b>2002</b> , 1000-1	5.8	58
143	The effect of the thermal reduction temperature on the structure and sorption capacity of reduced graphene oxide materials. <i>Applied Surface Science</i> , <b>2016</b> , 361, 213-220	6.7	57
142	Integration and bioactivity of hydroxyapatite grown on carbon nanotubes and graphene oxide. <i>Carbon</i> , <b>2014</b> , 79, 590-604	10.4	57
141	Synthesis and Properties of Optically Active Polyaniline Carbon Nanotube Composites. <i>Macromolecules</i> , <b>2006</b> , 39, 7324-7332	5.5	57
140	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> , <b>2012</b> , 22, 21285		53

139	Gas and pressure effects on the production of single-walled carbon nanotubes by laser ablation. <i>Carbon</i> , <b>2000</b> , 38, 1445-1451	10.4	50
138	One-step microwave synthesis of palladium-carbon nanotube hybrids with improved catalytic performance. <i>Carbon</i> , <b>2011</b> , 49, 652-658	10.4	49
137	The effect of ultra-thin graphite on the morphology and physical properties of thermoplastic polyurethane elastomer composites. <i>Composites Science and Technology</i> , <b>2012</b> , 72, 1595-1601	8.6	48
136	Production of carbon nanotubes: the light approach. <i>Carbon</i> , <b>2002</b> , 40, 1685-1695	10.4	48
135	Revisiting Graphene Oxide Chemistry via Spatially-Resolved Electron Energy Loss Spectroscopy. <i>Chemistry of Materials</i> , <b>2016</b> , 28, 3741-3748	9.6	47
134	Hydrogen adsorption on a single-walled carbon nanotube material: a comparative study of three different adsorption techniques. <i>Nanotechnology</i> , <b>2004</b> , 15, 1503-1508	3.4	45
133	Optically active polymer carbon nanotube composite. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 22725-22734	3.4	43
132	Control of the microstructure and surface chemistry of graphene aerogels via pH and time manipulation by a hydrothermal method. <i>Nanoscale</i> , <b>2018</b> , 10, 3526-3539	7.7	42
131	Performing current versus voltage measurements of single-walled carbon nanotubes using scanning force microscopy. <i>Applied Physics Letters</i> , <b>2002</b> , 80, 1462-1464	3.4	42
130	Mechanical Characterization of Carbon Nanotube Composite Materials. <i>Mechanics of Advanced Materials and Structures</i> , <b>2005</b> , 12, 13-19	1.8	40
129	Carbon nanotube growth on cobalt-sprayed substrates by thermal CVD. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 1185-1188	8.3	40
128	Influence of molybdenum on the chemical vapour deposition production of carbon nanotubes. <i>Nanotechnology</i> , <b>2005</b> , 16, S224-S229	3.4	35
127	Interfacing Transition Metal Dichalcogenides with Carbon Nanodots for Managing Photoinduced Energy and Charge-Transfer Processes. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 13488-13496	16.4	35
126	Self-assembled graphene aerogel and nanodiamond hybrids as high performance catalysts in oxidative propane dehydrogenation. <i>Journal of Materials Chemistry A</i> , <b>2015</b> , 3, 24379-24388	13	34
125	Mechanical and Electrical Properties of Nanosized Contacts on Single-Walled Carbon Nanotubes. <i>Advanced Materials</i> , <b>2000</b> , 12, 573-576	24	34
124	Nanofibrillar polyaniline: direct route to carbon nanotube water dispersions of high concentration. <i>Macromolecular Rapid Communications</i> , <b>2009</b> , 30, 418-22	4.8	33
123	Aligned carbon nanotubes grown on alumina and quartz substrates by a simple thermal CVD process. <i>Diamond and Related Materials</i> , <b>2006</b> , 15, 1059-1063	3.5	32
122	Diameter dependence of Raman intensities for single-wall carbon nanotubes. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	32

121	Single-walled carbon nanotubes produced by cw CO <sub>2</sub> -laser ablation: study of parameters important for their formation. <i>Applied Physics A: Materials Science and Processing</i> , <b>2000</b> , 70, 145-151	2.6	32
120	Kinetics of Conradson Carbon Residue Conversion in the Catalytic Hydroprocessing of a Maya Residue. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 11-17	3.9	32
119	Controlling the surface chemistry of graphene oxide: Key towards efficient ZnO-GO photocatalysts. <i>Catalysis Today</i> , <b>2020</b> , 357, 350-360	5.3	31
118	Electronic Interactions in Illuminated Carbon Dot/MoS Ensembles and Electrocatalytic Activity towards Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2018</b> , 24, 10468-10474	4.8	31
117	Charge transport properties of water dispersible multiwall carbon nanotube-polyaniline composites. <i>Journal of Applied Physics</i> , <b>2010</b> , 107, 103719	2.5	27
116	Optimizing catalyst nanoparticle distribution to produce densely-packed carbon nanotube growth. <i>Carbon</i> , <b>2009</b> , 47, 1989-2001	10.4	27
115	Towards helical and Y-shaped carbon nanotubes: the role of sulfur in CVD processes. <i>Nanotechnology</i> , <b>2006</b> , 17, 4292-4299	3.4	27
114	Graphene oxide-carbon nanotube hybrid assemblies: cooperatively strengthened OH/O	9.4	26
113	Reduced graphene oxide: firm support for catalytically active palladium nanoparticles and game changer in selective hydrogenation reactions. <i>Nanoscale</i> , <b>2013</b> , 5, 10189-93	7.7	26
112	Processing dependency of percolation threshold of MWCNTs in a thermoplastic elastomeric block copolymer. <i>Polymer</i> , <b>2011</b> , 52, 1788-1796	3.9	25
111	Preparation of palladium loaded carbon nanotubes and activated carbons for hydrogen sorption. <i>Journal of Alloys and Compounds</i> , <b>2007</b> , 436, 294-297	5.7	25
110	Enhanced hydrogen adsorption on single-wall carbon nanotubes by sample reduction. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , <b>2004</b> , 108, 120-123	3.1	25
109	Arc-grown Y-branched carbon nanotubes observed by scanning tunneling microscopy (STM). <i>Chemical Physics Letters</i> , <b>2002</b> , 365, 338-342	2.5	25
108	Kinetics of asphaltene hydroconversion: 2. Catalytic hydrocracking of a coal residue. <i>Fuel</i> , <b>1997</b> , 76, 907-911		23
107	Synthesis and characterisation of the methanofullerenes, C <sub>60</sub> (CHCN) and C <sub>60</sub> (CBr <sub>2</sub> ). <i>Tetrahedron Letters</i> , <b>1996</b> , 37, 1085-1086	2	23
106	Reduced Graphene Oxide Aerogels with Controlled Continuous Microchannels for Environmental Remediation. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 1210-1222	5.6	22
105	Effects of partial and total methane flows on the yield and structural characteristics of MWCNTs produced by CVD. <i>Carbon</i> , <b>2009</b> , 47, 998-1004	10.4	22
104	Evolution of multiwalled carbon-nanotube/SiO <sub>2</sub> composites via laser treatment. <i>Nanotechnology</i> , <b>2003</b> , 14, 184-187	3.4	22

103	High catalytic performance of palladium nanoparticles supported on multiwalled carbon nanotubes in alkene hydrogenation reactions. <i>New Journal of Chemistry</i> , <b>2013</b> , 37, 1968	3.6	20
102	Platelet-like catalyst design for high yield production of multi-walled carbon nanotubes by catalytic chemical vapor deposition. <i>Carbon</i> , <b>2011</b> , 49, 2483-2491	10.4	20
101	Visualization of single-walled carbon nanotubes electrical networks by scanning force microscopy. <i>Applied Physics Letters</i> , <b>2001</b> , 79, 2979-2981	3.4	19
100	Unique Properties and Behavior of Nonmercerized Type-II Cellulose Nanocrystals as Carbon Nanotube Biocompatible Dispersants. <i>Biomacromolecules</i> , <b>2019</b> , 20, 3147-3160	6.9	18
99	Single-walled carbon nanotube-supported platinum nanoparticles as fuel cell electrocatalysts. <i>Journal of Materials Research</i> , <b>2006</b> , 21, 2841-2846	2.5	18
98	Mössbauer and magnetic characterisation of carbon-coated small iron particles. <i>Journal of Magnetism and Magnetic Materials</i> , <b>2001</b> , 226-230, 1930-1932	2.8	18
97	Single-walled carbon nanotubes formation with a continuous CO <sub>2</sub> -laser: experiments and theory. <i>Applied Physics A: Materials Science and Processing</i> , <b>2000</b> , 70, 161-168	2.6	18
96	Visbreaking of an asphaltenic coal residue. <i>Fuel</i> , <b>1995</b> , 74, 922-927	7.1	18
95	Conjugated Polymer Nanoparticle-Graphene Oxide Charge-Transfer Complexes. <i>Advanced Functional Materials</i> , <b>2018</b> , 28, 1707548	15.6	17
94	Two-stage liquefaction of a Spanish subbituminous coal. <i>Fuel Processing Technology</i> , <b>1993</b> , 33, 159-173	7.2	17
93	Production of carbon nanotubes by CO <sub>2</sub> -laser evaporation of various carbonaceous feedstock materials. <i>Nanotechnology</i> , <b>2001</b> , 12, 147-151	3.4	16
92	Carbon nanotube-supported gold nanoparticles as efficient catalyst for the selective hydrogenation of nitroaromatic derivatives to anilines. <i>Materials Today Communications</i> , <b>2015</b> , 3, 104-113	3.5	15
91	The viscosity of dilute carbon nanotube (1D) and graphene oxide (2D) nanofluids. <i>Physical Chemistry Chemical Physics</i> , <b>2020</b> , 22, 11474-11484	3.6	15
90	Combination of two dispersants as a valuable strategy to prepare improved poly(vinyl alcohol)/carbon nanotube composites. <i>Composites Science and Technology</i> , <b>2013</b> , 80, 101-107	8.6	15
89	Kinetics of asphaltene hydroconversion. <i>Fuel</i> , <b>1997</b> , 76, 899-905	7.1	15
88	Carbon Nanotube Mediated Reduction in Optical Activity in Polyaniline Composite Materials. <i>Journal of Physical Chemistry C</i> , <b>2008</b> , 112, 1441-1445	3.8	15
87	FTIR and thermogravimetric analysis of biotin-functionalized single-walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2007</b> , 7, 3473-6	1.3	15
86	Polyazomethine/carbon nanotube composites. <i>Materials Science and Engineering C</i> , <b>2006</b> , 26, 1198-1201	8.3	15

85	Upgrading of a Petroleum Residue. Kinetics of Conradson Carbon Residue Conversion. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1999</b> , 38, 938-943	3.9	15
84	Ni $\gamma$ /Mo catalyst for the large-scale CVD production of multi-wall carbon nanotubes. <i>Carbon</i> , <b>2005</b> , 43, 3034-3037	10.4	14
83	Electrical characterization of single-walled carbon nanotubes with Scanning Force Microscopy. <i>Materials Science and Engineering C</i> , <b>2001</b> , 15, 149-151	8.3	14
82	Upgrading of an Asphaltenic Coal Residue: Thermal Hydroprocessing. <i>Energy &amp; Fuels</i> , <b>1996</b> , 10, 401-408	4.08	14
81	Cobalt-Doped ZnO Nanorods Coated with Nanoscale Metal-Organic Framework Shells for Water-Splitting Photoanodes. <i>ACS Applied Nano Materials</i> , <b>2020</b> , 3, 7781-7788	5.6	14
80	Environmental impact of the production of graphene oxide and reduced graphene oxide. <i>SN Applied Sciences</i> , <b>2019</b> , 1, 1	1.8	13
79	Crystalline transformations in nylon-6/single-walled carbon nanotube nanocomposites. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6120-6	1.3	13
78	Important parameters for the catalytic nanoparticles formation towards the growth of carbon nanotube aligned arrays. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1082-1086	3.5	13
77	STM observation of asymmetrical Y-branched carbon nanotubes and nano-knees produced by the arc discharge method. <i>Materials Science and Engineering C</i> , <b>2003</b> , 23, 561-564	8.3	13
76	A versatile room-temperature method for the preparation of customized fluorescent non-conjugated polymer dots. <i>Polymer</i> , <b>2019</b> , 177, 97-101	3.9	12
75	Electrochemical Grafting of Reduced Graphene Oxide with Polydiphenylamine Doped with Heteropolyanions and Its Optical Properties. <i>Journal of Physical Chemistry C</i> , <b>2014</b> , 118, 25704-25717	3.8	12
74	Percolating Metallic Structures Templated on Laser-Deposited Carbon Nanofoams Derived from Graphene Oxide: Applications in Humidity Sensing. <i>ACS Applied Nano Materials</i> , <b>2018</b> , 1, 1828-1835	5.6	11
73	Block copolymer assisted dispersion of single walled carbon nanotubes and integration into a trifunctional epoxy. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6104-12	1.3	11
72	Structures of soot generated by laser induced pyrolysis of metal-graphite composite targets. <i>Carbon</i> , <b>1998</b> , 36, 525-528	10.4	11
71	Catalytic Hydrocracking of an Asphaltenic Coal Residue. <i>Energy &amp; Fuels</i> , <b>1996</b> , 10, 1235-1240	4.1	11
70	Towards high-efficient microsupercapacitors based on reduced graphene oxide with optimized reduction degree. <i>Energy Storage Materials</i> , <b>2020</b> , 25, 740-749	19.4	11
69	Bottom-Up Synthesized MoS Interfacing Polymer Carbon Nanodots with Electrocatalytic Activity for Hydrogen Evolution. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 6635-6642	4.8	10
68	The structure of fullerene compounds. <i>Journal of Molecular Structure</i> , <b>1997</b> , 436-437, 1-9	3.4	9



67	CVD production of double-wall and triple-wall carbon nanotubes. <i>Diamond and Related Materials</i> , <b>2007</b> , 16, 1087-1090	3.5	9
66	Study of parameters important for the growth of single wall carbon nanotubes. <i>Optical Materials</i> , <b>2001</b> , 17, 331-334	3.3	9
65	Single-walled carbon nanotubes produced by laser ablation under different inert atmospheres. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2490-2491	3.6	9
64	Integrating Water-Soluble Polythiophene with Transition-Metal Dichalcogenides for Managing Photoinduced Processes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 5947-5956	9.5	8
63	Sorption of 4He, H <sub>2</sub> , Ne, N <sub>2</sub> , CH <sub>4</sub> , and Kr impurities in graphene oxide at low temperatures. Quantum effects. <i>Low Temperature Physics</i> , <b>2013</b> , 39, 1090-1095	0.7	8
62	The influence of the target composition in the structural characteristics of single-walled carbon nanotubes produced by laser ablation. <i>Synthetic Metals</i> , <b>2001</b> , 121, 1193-1194	3.6	8
61	Kinetics of Sulfur Removal from a Liquid Coal Residue in Thermal, Hydrothermal, and Hydrocatalytic Cracking. <i>Energy &amp; Fuels</i> , <b>1998</b> , 12, 365-370	4.1	8
60	Application of petroleum processing technology to the upgrading of coal syncrude. <i>Fuel</i> , <b>1995</b> , 74, 32-36	7.1	8
59	Detailed thermal reduction analyses of graphene oxide via in-situ TEM/EELS studies. <i>Carbon</i> , <b>2021</b> , 178, 477-487	10.4	8
58	Graphene aerogels via hydrothermal gelation of graphene oxide colloids: Fine-tuning of its porous and chemical properties and catalytic applications. <i>Advances in Colloid and Interface Science</i> , <b>2021</b> , 292, 102420	14.3	8
57	Functionalized carbon dots on TiO <sub>2</sub> for perovskite photovoltaics and stable photoanodes for water splitting. <i>International Journal of Hydrogen Energy</i> , <b>2021</b> , 46, 12180-12191	6.7	8
56	A tool box to ascertain the nature of doping and photoresponse in single-walled carbon nanotubes. <i>Physical Chemistry Chemical Physics</i> , <b>2019</b> , 21, 4063-4071	3.6	7
55	Ru supported on N-doped reduced graphene oxide aerogels with different N-type for alcohol selective oxidation. <i>Molecular Catalysis</i> , <b>2020</b> , 484, 110737	3.3	7
54	Carbon Nanotube Film Electrodes with Acrylic Additives: Blocking Electrochemical Charge Transfer Reactions. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	6
53	Self-Assembled Core-Shell CdTe/Poly(3-hexylthiophene) Nanoensembles as Novel Donor-Acceptor Light-Harvesting Systems. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44695-44703	9.5	6
52	Photoactivity improvement of TiO <sub>2</sub> electrodes by thin hole transport layers of reduced graphene oxide. <i>Electrochimica Acta</i> , <b>2019</b> , 298, 279-287	6.7	6
51	Unravelling the hydration mechanism in a multi-layered graphene oxide paper by in-situ X-ray scattering. <i>Carbon</i> , <b>2018</b> , 137, 379-383	10.4	6
50	Carbon Nanotubes: From Fundamental Nanoscale Objects Towards Functional Nanocomposites and Applications. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2008</b> , 101-119	0.2	6



49	Capacitive and Charge Transfer Effects of Single-Walled Carbon Nanotubes in TiO Electrodes. <i>ChemPhysChem</i> , <b>2019</b> , 20, 838-847	3.2	5
48	The effect of the thermal reduction on the kinetics of low-temperature 4He sorption and the structural characteristics of graphene oxide. <i>Low Temperature Physics</i> , <b>2017</b> , 43, 383-389	0.7	5
47	Intercalated water in multi-layered graphene oxide paper: an X-ray scattering study. <i>Journal of Applied Crystallography</i> , <b>2017</b> , 50, 876-884	3.8	5
46	Nanofibrillar-polyaniline/Carbon nanotube composites: aqueous dispersions and films. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6157-63	1.3	5
45	Transport fuels from two-stage coal liquefaction. <i>International Journal of Energy Research</i> , <b>1994</b> , 18, 257-265	4.5	5
44	Differential properties and effects of fluorescent carbon nanoparticles towards intestinal theranostics. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 185, 110612	6	5
43	Chemical Postdeposition Treatments To Improve the Adhesion of Carbon Nanotube Films on Plastic Substrates. <i>ACS Omega</i> , <b>2019</b> , 4, 2804-2811	3.9	4
42	Non-specific adsorption of streptavidin on single walled carbon nanotubes. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6149-56	1.3	4
41	Optimizing Bacterial Cellulose Production Towards Materials for Water Remediation. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2020</b> , 391-403	0.2	4
40	Modification of Physicochemical Properties and Boosting Electrical Conductivity of Reduced Graphene Oxide Aerogels by Postsynthesis Treatment. <i>Journal of Physical Chemistry C</i> , <b>2020</b> , 124, 13739-13752	3.8	4
39	In-situ reduction by Joule heating and measurement of electrical conductivity of graphene oxide in a transmission electron microscope. <i>2D Materials</i> , <b>2021</b> , 8, 031001	5.9	4
38	Processing route to disentangle multi-walled carbon nanotube towards ceramic composite. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2009</b> , 9, 6164-70	1.3	3
37	Calculation of the charge spreading along a carbon nanotube seen in scanning tunnelling microscopy (STM). <i>Diamond and Related Materials</i> , <b>2002</b> , 11, 961-963	3.5	3
36	Waterborne Graphene- and Nanocellulose-Based Inks for Functional Conductive Films and 3D Structures. <i>Nanomaterials</i> , <b>2021</b> , 11,	5.4	3
35	The effect of the temperature of graphene oxide reduction on low-temperature sorption of 4He. <i>Low Temperature Physics</i> , <b>2016</b> , 42, 57-59	0.7	3
34	Carbon Nanofoam Supercapacitor Electrodes with Enhanced Performance Using a Water-Transfer Process. <i>ACS Omega</i> , <b>2018</b> , 3, 15134-15139	3.9	3
33	Charge-transfer characteristics in carbon nanostructure/metal oxide photoelectrodes efficiently probed by hydrogen peroxide. <i>Journal of Electroanalytical Chemistry</i> , <b>2018</b> , 828, 86-90	4.1	3
32	Electron Trap States and Photopotential of Nanocrystalline Titanium Dioxide Electrodes Filled with Single-Walled Carbon Nanotubes. <i>ChemElectroChem</i> , <b>2017</b> , 4, 2300-2307	4.3	2

31	Nanoscale J-aggregates of poly(3-hexylthiophene): key to electronic interface interactions with graphene oxide as revealed by KPFM. <i>Nanoscale</i> , <b>2019</b> , 11, 11202-11208	7.7	2
30	Novel gas sensors based on carbon nanotube networks. <i>Journal of Physics: Conference Series</i> , <b>2008</b> , 127, 012012	0.3	2
29	NO2 detection with Single Walled Carbon Nanotube Networks <b>2007</b> ,		2
28	Raman Investigation of Singlewalled Carbon Nanotubes. <i>Molecular Crystals and Liquid Crystals</i> , <b>1998</b> , 322, 71-78		2
27	Graphene: 2D-Building Block for Functional Nanocomposites. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2011</b> , 143-148	0.2	2
26	In-Situ Growth and Immobilization of CdS Nanoparticles onto Functionalized MoS <sub>2</sub> : Preparation, Characterization and Fabrication of Photoelectrochemical Cells. <i>Chemistry - an Asian Journal</i> , <b>2020</b> , 15, 2350-2356	4.5	2
25	Laser-Deposited Carbon Aerogel Derived from Graphene Oxide Enables NO-Selective Parts-per-Billion Sensing. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 39541-39548	9.5	2
24	Formation of one-dimensional quantum crystals of molecular deuterium inside carbon nanotubes. <i>Carbon</i> , <b>2021</b> , 175, 141-154	10.4	2
23	Carbon Nanotube Composite Materials: Opportunities and Processing Issues. <i>NATO Science for Peace and Security Series B: Physics and Biophysics</i> , <b>2009</b> , 181-198	0.2	2
22	The effect of graphene oxide reduction temperature on the kinetics of low-temperature sorption of hydrogen. <i>Low Temperature Physics</i> , <b>2019</b> , 45, 422-426	0.7	1
21	A New Structural Model for Graphene Oxide and Reduced Graphene Oxide as Revealed by Core EELS and DFT. <i>Microscopy and Microanalysis</i> , <b>2014</b> , 20, 1774-1775	0.5	1
20	Multi-Walled Carbon Nanotube Networks As Gas Sensors for NO <sub>2</sub> Detection <b>2007</b> ,		1
19	Hyperfine and Magnetic Characterization of Fe Particles Hosted in Carbon Nanocapsules. <i>Hyperfine Interactions</i> , <b>2001</b> , 134, 103-108	0.8	1
18	Structure and vibrational properties of single wall carbon nanotubes. <i>Synthetic Metals</i> , <b>1999</b> , 103, 2537-2539	3.5	1
17	DEASPHALTING AND CHARACTERIZATION OF A SYNCRUDE OBTAINED BY DIRECT LIQUEFACTION OF A SPANISH SUBBITUMINOUS COAL. <i>Petroleum Science and Technology</i> , <b>1994</b> , 12, 1509-1538		1
16	Effect of nanocellulose polymorphism on electrochemical analytical performance in hybrid nanocomposites with non-oxidized single-walled carbon nanotubes.. <i>Mikrochimica Acta</i> , <b>2022</b> , 189, 62	5.8	1
15	Incorporation of Multi Wall Carbon Nanotubes into Glass-Surfaces via Laser-Treatment. <i>Materials Research Society Symposia Proceedings</i> , <b>2003</b> , 772, 281		1
14	Optical properties and carrier dynamics in Co-doped ZnO nanorods. <i>Nanoscale Advances</i> , <b>2021</b> , 3, 214-223	3.1	1

- 13 Mechanical and Electrical Properties of Nanosized Contacts on Single-Walled Carbon Nanotubes **2000**, 12, 573 1
- 12 Single-walled carbon nanotube buckypaper as support for highly permeable double layer polyamide/zeolitic imidazolate framework in nanofiltration processes. *Journal of Membrane Science*, **2022**, 652, 120490 9.6 1
- 11 Nanoscale Charge Density and Dynamics in Graphene Oxide. **2021**, 3, 1826-1831 0
- 10 Hybrids of Reduced Graphene Oxide Aerogel and CNT for Electrochemical O<sub>2</sub> Reduction. *Catalysts*, **2021**, 11, 1404 4 0
- 9 Preparation of Metallic and Semiconducting SWCNT Inks by a Simple Chromatographic Method: A Two-Parameter Study. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 229-238<sup>0.2</sup>
- 8 Sprayed Carbon Nanotube Thin Films as Hydrogen Sensors. *Materials Research Society Symposia Proceedings*, **2005**, 900, 1
- 7 INVESTIGATION OF THE EXISTENCE OF COAL MATRIX EFFECTS ON THE HYDROLIQUEFACTION OF VITRINITES DERIVED FROM LOW RANK SPANISH COALS. *Petroleum Science and Technology*, **1994**, 12, 1-20 1.4
- 6 Hydroprocessing of an asphaltenic coal residue. *Coal Science and Technology*, **1995**, 1467-1470
- 5 Synthesis and processing of nanomaterials mediated by living beings. *Angewandte Chemie*, 3.6
- 4 Revisiting Graphene Oxide Structure via Spatially-Resolved Electron Energy Loss Spectroscopy **2016**, 482-483
- 3 CHAPTER 4. Carbon Nanostructures and Polysaccharides for Biomedical Materials. *RSC Nanoscience and Nanotechnology*, **2021**, 98-152
- 2 Nanostructured Carbon Materials: Synthesis and Applications. *NATO Science for Peace and Security Series B: Physics and Biophysics*, **2018**, 177-191 0.2
- 1 Rational description and modelling of the separation of nanotubes from solid nanoparticles in centrifugation processes. *Carbon Trends*, **2021**, 5, 100084 0