

# Juan I Paredes

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/2415854/juan-i-paredes-publications-by-citations.pdf>

**Version:** 2024-04-20

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.

81  
papers

6,776  
citations

31  
h-index

81  
g-index

81  
ext. papers

7,363  
ext. citations

7.1  
avg, IF

5.87  
L-index

#	Paper	IF	Citations
81	Graphene oxide dispersions in organic solvents. <i>Langmuir</i> , <b>2008</b> , 24, 10560-4	4	2195
80	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. <i>Journal of Physical Chemistry C</i> , <b>2010</b> , 114, 6426-6432	3.8	1065
79	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. <i>Langmuir</i> , <b>2009</b> , 25, 5957-68	4	575
78	Preparation of graphene dispersions and graphene-polymer composites in organic media. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 3591		276
77	A possible buckyball-like structure of zeolite templated carbon. <i>Carbon</i> , <b>2009</b> , 47, 1220-1230	10.4	203
76	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. <i>Nano Research</i> , <b>2013</b> , 6, 216-233	10	165
75	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. <i>Journal of Materials Chemistry</i> , <b>2011</b> , 21, 298-306		154
74	Dispersions of individual single-walled carbon nanotubes of high length. <i>Langmuir</i> , <b>2004</b> , 20, 5149-52	4	118
73	Biomolecule-assisted exfoliation and dispersion of graphene and other two-dimensional materials: a review of recent progress and applications. <i>Nanoscale</i> , <b>2016</b> , 8, 15389-413	7.7	105
72	Chemically exfoliated MoS <sub>2</sub> nanosheets as an efficient catalyst for reduction reactions in the aqueous phase. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2014</b> , 6, 21702-10	9.5	99
71	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <i>RSC Advances</i> , <b>2014</b> , 4, 14115-14127	3.7	90
70	Achieving extremely concentrated aqueous dispersions of graphene flakes and catalytically efficient graphene-metal nanoparticle hybrids with flavin mononucleotide as a high-performance stabilizer. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 10293-307	9.5	85
69	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , <b>2015</b> , 7, 2374-90	7.7	83
68	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. <i>Nanoscale</i> , <b>2016</b> , 8, 2982-98	7.7	75
67	Electrochemical Exfoliation of Graphite in Aqueous Sodium Halide Electrolytes toward Low Oxygen Content Graphene for Energy and Environmental Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24085-24099	9.5	74
66	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. <i>Chemistry of Materials</i> , <b>2001</b> , 13, 4297-4304	9.6	73
65	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. <i>Chemistry of Materials</i> , <b>2005</b> , 17, 5893-5908	9.6	68

64	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). <i>Chemistry of Materials</i> , <b>2003</b> , 15, 4052-4059	9.6	61
63	Electrospun silk fibroin scaffolds coated with reduced graphene promote neurite outgrowth of PC-12 cells under electrical stimulation. <i>Materials Science and Engineering C</i> , <b>2017</b> , 79, 315-325	8.3	56
62	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27974-27986	9.5	56
61	Recent advances and energy-related applications of high quality/chemically doped graphenes obtained by electrochemical exfoliation methods. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 7228-7242	13	54
60	Multiscale imaging and tip-scratch studies reveal insight into the plasma oxidation of graphite. <i>Langmuir</i> , <b>2007</b> , 23, 8932-43	4	49
59	Surface characterisation of plasma-modified poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , <b>2006</b> , 293, 353-63	9.3	48
58	Investigating the Dispersion Behavior in Solvents, Biocompatibility, and Use as Support for Highly Efficient Metal Catalysts of Exfoliated Graphitic Carbon Nitride. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 24032-45	9.5	44
57	Effects of oxygen and carbon dioxide plasmas on the surface of poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 287, 57-66	9.3	40
56	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. <i>Journal of Materials Chemistry</i> , <b>2000</b> , 10, 1585-1591		39
55	Determining the thickness of chemically modified graphenes by scanning probe microscopy. <i>Carbon</i> , <b>2010</b> , 48, 2657-2660	10.4	37
54	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. <i>Macromolecules</i> , <b>2002</b> , 35, 5085-5096	5.5	35
53	Global and Local Oxidation Behavior of Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , <b>2011</b> , 115, 7956-7966	3.8	34
52	Atomic Vacancy Engineering of Graphitic Surfaces: Controlling the Generation and Harnessing the Migration of the Single Vacancy. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 10249-10255	3.8	31
51	A comparison between physically and chemically driven etching in the oxidation of graphite surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2010</b> , 344, 451-9	9.3	31
50	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. <i>Langmuir</i> , <b>2001</b> , 17, 474-480	4	31
49	Oxidized graphitic carbon nitride nanosheets as an effective adsorbent for organic dyes and tetracycline for water remediation. <i>Journal of Alloys and Compounds</i> , <b>2019</b> , 809, 151783	5.7	30
48	Structural investigation of zeolite-templated, ordered microporous carbon by scanning tunneling microscopy and Raman spectroscopy. <i>Langmuir</i> , <b>2005</b> , 21, 8817-23	4	30
47	Developing green photochemical approaches towards the synthesis of carbon nanofiber- and graphene-supported silver nanoparticles and their use in the catalytic reduction of 4-nitrophenol. <i>RSC Advances</i> , <b>2013</b> , 3, 18323	3.7	28

46	A "Nanopore Lithography" Strategy for Synthesizing Hierarchically Micro/Mesoporous Carbons from ZIF-8/Graphene Oxide Hybrids for Electrochemical Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 44740-44755	9.5	28
45	Aqueous Exfoliation of Transition Metal Dichalcogenides Assisted by DNA/RNA Nucleotides: Catalytically Active and Biocompatible Nanosheets Stabilized by Acid-Base Interactions. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 2835-2845	9.5	27
44	Early Stages of Plasma Oxidation of Graphite: Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. <i>Langmuir</i> , <b>2002</b> , 18, 4314-4323	4	27
43	Surface Characterization of PBO Fibers. <i>Macromolecules</i> , <b>2003</b> , 36, 8662-8672	5.5	26
42	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. <i>Journal of Materials Chemistry</i> , <b>2002</b> , 12, 3213-3219		26
41	Highly efficient silver-assisted reduction of graphene oxide dispersions at room temperature: mechanism, and catalytic and electrochemical performance of the resulting hybrids. <i>Journal of Materials Chemistry A</i> , <b>2014</b> , 2, 7295-7305	13	25
40	Atomic-scale scanning tunneling microscopy study of plasma-oxidized ultrahigh-modulus carbon fiber surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2003</b> , 258, 276-82	9.3	25
39	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS Nanosheets for Energy Storage and Catalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2019</b> , 11, 36991-37003	9.5	24
38	Nanoscale investigation of the structural and chemical changes induced by oxidation on carbon black surfaces: a scanning probe microscopy approach. <i>Journal of Colloid and Interface Science</i> , <b>2005</b> , 288, 190-9	9.3	24
37	Combining thermal analysis with other techniques to monitor the decomposition of poly(m-phenylene isophthalamide). <i>Magyar Árvad Kélemények</i> , <b>2002</b> , 70, 37-43	0	22
36	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <i>Fuel Processing Technology</i> , <b>2019</b> , 196, 106152	7.2	20
35	Nickel nanoparticle/carbon catalysts derived from a novel aqueous-synthesized metal-organic framework for nitroarene reduction. <i>Journal of Alloys and Compounds</i> , <b>2021</b> , 853, 157348	5.7	20
34	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. <i>Carbon</i> , <b>2006</b> , 44, 2469-2478	10.4	19
33	High quality, low-oxidized graphene via anodic exfoliation with table salt as an efficient oxidation-preventing co-electrolyte for water/oil remediation and capacitive energy storage applications. <i>Applied Materials Today</i> , <b>2018</b> , 11, 246-254	6.6	17
32	Adhesion artefacts in atomic force microscopy imaging. <i>Journal of Microscopy</i> , <b>2000</b> , 200 (Pt 2), 109-13	1.9	17
31	Real-time monitoring of polymer swelling on the nanometer scale by atomic force microscopy. <i>Langmuir</i> , <b>2006</b> , 22, 4728-33	4	15
30	High Performance Na-O Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2020</b> , 12, 494-506	9.5	15
29	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2020</b> , 186, 110709	6	15

28	Preparation, characterization and fundamental studies on graphenes by liquid-phase processing of graphite. <i>Journal of Alloys and Compounds</i> , <b>2012</b> , 536, S450-S455	5.7	14
27	Adsorption of n-alkanes on plasma-oxidized high-strength carbon fibers. <i>Journal of Colloid and Interface Science</i> , <b>2002</b> , 247, 290-302	9.3	14
26	A Combined Experimental and Theoretical Investigation of Atomic-Scale Defects Produced on Graphite Surfaces by Dielectric Barrier Discharge Plasma Treatment. <i>Journal of Physical Chemistry C</i> , <b>2009</b> , 113, 18719-18729	3.8	11
25	Detecting Surface Oxygen Groups on Carbon Nanofibers by Phase Contrast Imaging in Tapping Mode AFM. <i>Langmuir</i> , <b>2003</b> , 19, 7665-7668	4	11
24	A scanning tunnelling microscopy insight into the preparation of carbon molecular sieves by chemical vapour deposition. <i>Journal of Materials Chemistry</i> , <b>2003</b> , 13, 1513-1516		10
23	A microscopic view of physical and chemical activation in the synthesis of porous carbons. <i>Langmuir</i> , <b>2006</b> , 22, 9730-9	4	9
22	Activation of two-dimensional MoS <sub>2</sub> nanosheets by wet-chemical sulfur vacancy engineering for the catalytic reduction of nitroarenes and organic dyes. <i>Applied Materials Today</i> , <b>2020</b> , 20, 100678	6.6	9
21	CO <sub>2</sub> capture by novel hierarchical activated ordered micro-mesoporous carbons derived from low value coal tar products. <i>Microporous and Mesoporous Materials</i> , <b>2021</b> , 318, 110986	5.3	8
20	An aqueous cathodic delamination route towards high quality graphene flakes for oil sorption and electrochemical charge storage applications. <i>Chemical Engineering Journal</i> , <b>2019</b> , 372, 1226-1239	14.7	7
19	Surface modification of high-performance polymeric fibers by an oxygen plasma. A comparative study of poly(p-phenylene terephthalamide) and poly(p-phenylene benzobisoxazole). <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 3781-90	4.5	7
18	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , <b>2017</b> , 4, 1487-1497	4.3	6
17	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. <i>Carbon</i> , <b>2008</b> , 46, 1364-1367	10.4	6
16	A study of the surface morphology of poly(p-phenylene terephthalamide) chars using scanning probe microscopy. <i>Polymer Degradation and Stability</i> , <b>2010</b> , 95, 702-707	4.7	5
15	Irreversible deformation of hyper-crosslinked polymers after hydrogen adsorption. <i>Journal of Colloid and Interface Science</i> , <b>2022</b> , 605, 513-527	9.3	5
14	Understanding the effect of the mesopore volume of ordered mesoporous carbons on their electrochemical behavior as Li-ion battery anodes. <i>Microporous and Mesoporous Materials</i> , <b>2020</b> , 306, 110417	5.3	4
13	High resolution imaging of functional group distributions on carbon surfaces by tapping mode atomic force microscopy. <i>Chemical Communications</i> , <b>2002</b> , 1790-1	5.8	4
12	A biosupramolecular approach to graphene: Complementary nucleotide-nucleobase combinations as enhanced stabilizers towards aqueous-phase exfoliation and functional graphene-nucleotide hydrogels. <i>Carbon</i> , <b>2018</b> , 129, 321-334	10.4	4
11	A Simple and Expedient Route to Phosphate-Functionalized, Water-Processable Graphene for Capacitive Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 54860-54873	9.5	2

10	MoS flakes stabilized with DNA/RNA nucleotides: In vitro cell response. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 11-22	8.3	2
9	A direct route to activated two-dimensional cobalt oxide nanosheets for electrochemical energy storage, catalytic and environmental applications. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 539, 263-276	9.3	2
8	Boosting the Performance of Graphene Cathodes in Na-O Batteries by Exploiting the Multifunctional Character of Small Biomolecules. <i>Small</i> , <b>2021</b> , 17, e2005034	11	2
7	Heteropolyacids supported on boron nitride and carbon nitride for catalytic and catalytic photo-assisted alcohol dehydration. <i>Catalysis Today</i> , <b>2021</b> , 380, 209-222	5.3	2
6	Driving the sodium-oxygen battery chemistry towards the efficient formation of discharge products: The importance of sodium superoxide quantification. <i>Journal of Energy Chemistry</i> , <b>2022</b> , 68, 709-720	12	1
5	Influence of graphene oxide's characteristics on the fabrication and performance of crosslinked nanofiltration membranes. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , <b>2021</b> , 119, 158-165	5.3	1
4	Molecular Functionalization of 2H-Phase MoS Nanosheets via an Electrolytic Route for Enhanced Catalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2021</b> , 13, 33157-33171	9.5	1
3	New structural insights into ordered porous carbon by scanning tunneling microscopy. <i>Microporous and Mesoporous Materials</i> , <b>2006</b> , 87, 268-271	5.3	
2	Atomic vacancy-induced friction on the graphite surface: observation by lateral force microscopy. <i>Journal of Microscopy</i> , <b>2003</b> , 210, 119-24	1.9	
1	Cytotoxicity of Nucleotide-Stabilized Graphene Dispersions on Osteosarcoma and Healthy Cells: On the Way to Safe Theranostics Agents.. <i>ACS Applied Bio Materials</i> , <b>2021</b> , 4, 4384-4393	4.1	