

# Juan I Paredes

## List of Publications by Year in descending order

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81  
papers

7,901  
citations

126858

33  
h-index

62565

80  
g-index

81  
all docs

81  
docs citations

81  
times ranked

11804  
citing authors

#	ARTICLE	IF	CITATIONS
1	Graphene Oxide Dispersions in Organic Solvents. <i>Langmuir</i> , 2008, 24, 10560-10564.	1.6	2,511
2	Vitamin C Is an Ideal Substitute for Hydrazine in the Reduction of Graphene Oxide Suspensions. <i>Journal of Physical Chemistry C</i> , 2010, 114, 6426-6432.	1.5	1,230
3	Atomic Force and Scanning Tunneling Microscopy Imaging of Graphene Nanosheets Derived from Graphite Oxide. <i>Langmuir</i> , 2009, 25, 5957-5968.	1.6	631
4	Preparation of graphene dispersions and graphene-polymer composites in organic media. <i>Journal of Materials Chemistry</i> , 2009, 19, 3591.	6.7	293
5	A possible bucky bowl-like structure of zeolite templated carbon. <i>Carbon</i> , 2009, 47, 1220-1230.	5.4	243
6	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. <i>Nano Research</i> , 2013, 6, 216-233.	5.8	199
7	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. <i>Journal of Materials Chemistry</i> , 2011, 21, 298-306.	6.7	173
8	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> , 2014, 6, 21702-21710.	4.0	126
9	Dispersions of Individual Single-Walled Carbon Nanotubes of High Length. <i>Langmuir</i> , 2004, 20, 5149-5152.	1.6	122
10	Biomolecule-assisted exfoliation and dispersion of graphene and other two-dimensional materials: a review of recent progress and applications. <i>Nanoscale</i> , 2016, 8, 15389-15413.	2.8	122
11	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <i>RSC Advances</i> , 2014, 4, 14115-14127.	1.7	101
12	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> , 2015, 7, 10293-10307.	4.0	101
13	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , 2015, 7, 2374-2390.	2.8	95
14	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> , 2017, 9, 24085-24099.	4.0	92
15	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. <i>Nanoscale</i> , 2016, 8, 2982-2998.	2.8	84
16	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. <i>Chemistry of Materials</i> , 2001, 13, 4297-4304.	3.2	83
17	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. <i>Chemistry of Materials</i> , 2005, 17, 5893-5908.	3.2	82
18	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS <sub>2</sub> Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 27974-27986.	4.0	73

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19	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> , 2017, 79, 315-325.	3.8	71
20	Recent advances and energy-related applications of high quality/chemically doped graphenes obtained by electrochemical exfoliation methods. <i>Journal of Materials Chemistry A</i> , 2017, 5, 7228-7242.	5.2	69
21	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). <i>Chemistry of Materials</i> , 2003, 15, 4052-4059.	3.2	63
22	Oxidized graphitic carbon nitride nanosheets as an effective adsorbent for organic dyes and tetracycline for water remediation. <i>Journal of Alloys and Compounds</i> , 2019, 809, 151783.	2.8	60
23	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> , 2015, 7, 24032-24045.	4.0	57
24	Multiscale Imaging and Tip-Scratch Studies Reveal Insight into the Plasma Oxidation of Graphite. <i>Langmuir</i> , 2007, 23, 8932-8943.	1.6	53
25	Surface characterisation of plasma-modified poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , 2006, 293, 353-363.	5.0	49
26	Determining the thickness of chemically modified graphenes by scanning probe microscopy. <i>Carbon</i> , 2010, 48, 2657-2660.	5.4	46
27	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> , 2017, 9, 44740-44755.	4.0	46
28	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS <sub>2</sub> Nanosheets for Energy Storage and Catalytic Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 36991-37003.	4.0	43
29	Effects of oxygen and carbon dioxide plasmas on the surface of poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , 2005, 287, 57-66.	5.0	42
30	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. <i>Journal of Materials Chemistry</i> , 2000, 10, 1585-1591.	6.7	41
31	A comparison between physically and chemically driven etching in the oxidation of graphite surfaces. <i>Journal of Colloid and Interface Science</i> , 2010, 344, 451-459.	5.0	37
32	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. <i>Macromolecules</i> , 2002, 35, 5085-5096.	2.2	36
33	Global and Local Oxidation Behavior of Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7956-7966.	1.5	36
34	Atomic Vacancy Engineering of Graphitic Surfaces: Controlling the Generation and Harnessing the Migration of the Single Vacancy. <i>Journal of Physical Chemistry C</i> , 2009, 113, 10249-10255.	1.5	34
35	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> , 2017, 9, 2835-2845.	4.0	33
36	Nickel nanoparticle/carbon catalysts derived from a novel aqueous-synthesized metal-organic framework for nitroarene reduction. <i>Journal of Alloys and Compounds</i> , 2021, 853, 157348.	2.8	33

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37	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. <i>Langmuir</i> , 2001, 17, 474-480.	1.6	32
38	Structural Investigation of Zeolite-templated, Ordered Microporous Carbon by Scanning Tunneling Microscopy and Raman Spectroscopy. <i>Langmuir</i> , 2005, 21, 8817-8823.	1.6	32
39	High Performance Na-O <sub>2</sub> Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 494-506.	4.0	32
40	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> , 2013, 3, 18323.	1.7	31
41	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020, 186, 110709.	2.5	30
42	Early Stages of Plasma Oxidation of Graphite: Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. <i>Langmuir</i> , 2002, 18, 4314-4323.	1.6	29
43	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> , 2014, 2, 7295-7305.	5.2	29
44	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> , 2018, 11, 246-254.	2.3	28
45	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. <i>Journal of Materials Chemistry</i> , 2002, 12, 3213-3219.	6.7	27
46	Ordered mesoporous carbons obtained from low-value coal tar products for electrochemical energy storage and water remediation. <i>Fuel Processing Technology</i> , 2019, 196, 106152.	3.7	27
47	Surface Characterization of PBO Fibers. <i>Macromolecules</i> , 2003, 36, 8662-8672.	2.2	26
48	Atomic-scale scanning tunneling microscopy study of plasma-oxidized ultrahigh-modulus carbon fiber surfaces. <i>Journal of Colloid and Interface Science</i> , 2003, 258, 276-282.	5.0	25
49	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> , 2005, 288, 190-199.	5.0	25
50	Title is missing!. <i>Magyar Árvad Kémlemlenyek</i> , 2002, 70, 37-43.	1.4	24
51	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. <i>Carbon</i> , 2006, 44, 2469-2478.	5.4	20
52	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> , 2021, 318, 110986.	2.2	19
53	Adhesion artefacts in atomic force microscopy imaging. <i>Journal of Microscopy</i> , 2000, 200, 109-113.	0.8	17
54	Adsorption of n-Alkanes on Plasma-Oxidized High-Strength Carbon Fibers. <i>Journal of Colloid and Interface Science</i> , 2002, 247, 290-302.	5.0	16

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55	Real-Time Monitoring of Polymer Swelling on the Nanometer Scale by Atomic Force Microscopy. <i>Langmuir</i> , 2006, 22, 4728-4733.	1.6	16
56	Preparation, characterization and fundamental studies on graphenes by liquid-phase processing of graphite. <i>Journal of Alloys and Compounds</i> , 2012, 536, S450-S455.	2.8	16
57	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> , 2020, 20, 100678.	2.3	15
58	An aqueous cathodic delamination route towards high quality graphene flakes for oil sorption and electrochemical charge storage applications. <i>Chemical Engineering Journal</i> , 2019, 372, 1226-1239.	6.6	14
59	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> , 2009, 113, 18719-18729.	1.5	12
60	Detecting Surface Oxygen Groups on Carbon Nanofibers by Phase Contrast Imaging in Tapping Mode AFM. <i>Langmuir</i> , 2003, 19, 7665-7668.	1.6	11
61	A scanning tunnelling microscopy insight into the preparation of carbon molecular sieves by chemical vapour deposition. <i>Journal of Materials Chemistry</i> , 2003, 13, 1513-1516.	6.7	11
62	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , 2017, 4, 1487-1497.	1.7	11
63	Molecular Functionalization of 2H-Phase MoS <sub>2</sub> Nanosheets via an Electrolytic Route for Enhanced Catalytic Performance. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 33157-33171.	4.0	11
64	Irreversible deformation of hyper-crosslinked polymers after hydrogen adsorption. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 513-527.	5.0	11
65	A Microscopic View of Physical and Chemical Activation in the Synthesis of Porous Carbons. <i>Langmuir</i> , 2006, 22, 9730-9739.	1.6	10
66	Boosting the Performance of Graphene Cathodes in Na-O <sub>2</sub> Batteries by Exploiting the Multifunctional Character of Small Biomolecules. <i>Small</i> , 2021, 17, e2005034.	5.2	10
67	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> , 2022, 68, 709-720.	7.1	10
68	A Simple and Expedient Route to Phosphate-Functionalized, Water-Processable Graphene for Capacitive Energy Storage. <i>ACS Applied Materials &amp; Interfaces</i> , 2021, 13, 54860-54873.	4.0	9
69	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> , 2011, 1218, 3781-3790.	1.8	8
70	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> , 2020, 306, 110417.	2.2	7
71	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. <i>Carbon</i> , 2008, 46, 1364-1367.	5.4	6
72	A study of the surface morphology of poly(p-phenylene terephthalamide) chars using scanning probe microscopy. <i>Polymer Degradation and Stability</i> , 2010, 95, 702-707.	2.7	6

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73	A biosupramolecular approach to graphene: Complementary nucleotide-nucleobase combinations as enhanced stabilizers towards aqueous-phase exfoliation and functional graphene-nucleotide hydrogels. <i>Carbon</i> , 2018, 129, 321-334.	5.4	5
74	Heteropolyacids supported on boron nitride and carbon nitride for catalytic and catalytic photo-assisted alcohol dehydration. <i>Catalysis Today</i> , 2021, 380, 209-222.	2.2	5
75	High resolution imaging of functional group distributions on carbon surfaces by tapping mode atomic force microscopy. <i>Chemical Communications</i> , 2002, , 1790-1791.	2.2	4
76	MoS <sub>2</sub> flakes stabilized with DNA/RNA nucleotides: In vitro cell response. <i>Materials Science and Engineering C</i> , 2019, 100, 11-22.	3.8	4
77	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> , 2019, 539, 263-276.	5.0	4
78	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> , 2021, 119, 158-165.	2.7	4
79	Atomic vacancy-induced friction on the graphite surface: observation by lateral force microscopy. <i>Journal of Microscopy</i> , 2003, 210, 119-124.	0.8	1
80	Cytotoxicity of Nucleotide-Stabilized Graphene Dispersions on Osteosarcoma and Healthy Cells: On the Way to Safe Theranostics Agents. <i>ACS Applied Bio Materials</i> , 2021, 4, 4384-4393.	2.3	1
81	New structural insights into ordered porous carbon by scanning tunneling microscopy. <i>Microporous and Mesoporous Materials</i> , 2006, 87, 268-271.	2.2	0