

Juan I Paredes

List of Publications by Year in Descending Order

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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	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	12	1
80	Irreversible deformation of hyper-crosslinked polymers after hydrogen adsorption. <i>Journal of Colloid and Interface Science</i> , 2022 , 605, 513-527	9.3	5
79	A Simple and Expedient Route to Phosphate-Functionalized, Water-Processable Graphene for Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 54860-54873	9.5	2
78	CO ₂ 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	5.3	8
77	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	4.1	
76	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	5.7	20
75	Boosting the Performance of Graphene Cathodes in Na-O Batteries by Exploiting the Multifunctional Character of Small Biomolecules. <i>Small</i> , 2021 , 17, e2005034	11	2
74	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	5.3	1
73	Molecular Functionalization of 2H-Phase MoS Nanosheets via an Electrolytic Route for Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 33157-33171	9.5	1
72	Heteropolyacids supported on boron nitride and carbon nitride for catalytic and catalytic photo-assisted alcohol dehydration. <i>Catalysis Today</i> , 2021 , 380, 209-222	5.3	2
71	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	5.3	4
70	Activation of two-dimensional MoS ₂ nanosheets by wet-chemical sulfur vacancy engineering for the catalytic reduction of nitroarenes and organic dyes. <i>Applied Materials Today</i> , 2020 , 20, 100678	6.6	9
69	High Performance Na-O Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 494-506	9.5	15
68	Macrophage inflammatory and metabolic responses to graphene-based nanomaterials differing in size and functionalization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 186, 110709	6	15
67	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS Nanosheets for Energy Storage and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 36991-37003	9.5	24
66	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	14.7	7
65	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	5.7	30

64	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	7.2	20
63	MoS flakes stabilized with DNA/RNA nucleotides: In vitro cell response. <i>Materials Science and Engineering C</i> , 2019 , 100, 11-22	8.3	2
62	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	9.3	2
61	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	6.6	17
60	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	10.4	4
59	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	8.3	56
58	Electrochemical Exfoliation of Graphite in Aqueous Sodium Halide Electrolytes toward Low Oxygen Content Graphene for Energy and Environmental Applications. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 24085-24099	9.5	74
57	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	13	54
56	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , 2017 , 4, 1487-1497	4.3	6
55	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 & Interfaces</i> , 2017 , 9, 2835-2845	9.5	27
54	A "Nanopore Lithography" Strategy for Synthesizing Hierarchically Micro/Mesoporous Carbons from ZIF-8/Graphene Oxide Hybrids for Electrochemical Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 44740-44755	9.5	28
53	Biomolecule-assisted exfoliation and dispersion of graphene and other two-dimensional materials: a review of recent progress and applications. <i>Nanoscale</i> , 2016 , 8, 15389-413	7.7	105
52	Electrolytic exfoliation of graphite in water with multifunctional electrolytes: en route towards high quality, oxide-free graphene flakes. <i>Nanoscale</i> , 2016 , 8, 2982-98	7.7	75
51	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 27974-27986	9.5	56
50	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 & Interfaces</i> , 2015 , 7, 10293-307	9.5	85
49	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 & Interfaces</i> , 2015 , 7, 24032-45	9.5	44
48	From graphene oxide to pristine graphene: revealing the inner workings of the full structural restoration. <i>Nanoscale</i> , 2015 , 7, 2374-90	7.7	83
47	Production of aqueous dispersions of inorganic graphene analogues by exfoliation and stabilization with non-ionic surfactants. <i>RSC Advances</i> , 2014 , 4, 14115-14127	3.7	90

46	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	13	25
45	Chemically exfoliated MoS ₂ nanosheets as an efficient catalyst for reduction reactions in the aqueous phase. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 21702-10	9.5	99
44	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	3.7	28
43	Towards full repair of defects in reduced graphene oxide films by two-step graphitization. <i>Nano Research</i> , 2013 , 6, 216-233	10	165
42	Preparation, characterization and fundamental studies on graphenes by liquid-phase processing of graphite. <i>Journal of Alloys and Compounds</i> , 2012 , 536, S450-S455	5.7	14
41	Environmentally friendly approaches toward the mass production of processable graphene from graphite oxide. <i>Journal of Materials Chemistry</i> , 2011 , 21, 298-306		154
40	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, 3781-90	4.5	7
39	Global and Local Oxidation Behavior of Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011 , 115, 7956-7966	3.8	34
38	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	3.8	1065
37	A comparison between physically and chemically driven etching in the oxidation of graphite surfaces. <i>Journal of Colloid and Interface Science</i> , 2010 , 344, 451-9	9.3	31
36	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	4.7	5
35	Determining the thickness of chemically modified graphenes by scanning probe microscopy. <i>Carbon</i> , 2010 , 48, 2657-2660	10.4	37
34	A possible bucky bowl-like structure of zeolite templated carbon. <i>Carbon</i> , 2009 , 47, 1220-1230	10.4	203
33	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	3.8	31
32	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	3.8	11
31	Preparation of graphene dispersions and graphene-polymer composites in organic media. <i>Journal of Materials Chemistry</i> , 2009 , 19, 3591		276
30	Atomic force and scanning tunneling microscopy imaging of graphene nanosheets derived from graphite oxide. <i>Langmuir</i> , 2009 , 25, 5957-68	4	575
29	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. <i>Carbon</i> , 2008 , 46, 1364-1367	10.4	6

28	Graphene oxide dispersions in organic solvents. <i>Langmuir</i> , 2008 , 24, 10560-4	4	2195
27	Multiscale imaging and tip-scratch studies reveal insight into the plasma oxidation of graphite. <i>Langmuir</i> , 2007 , 23, 8932-43	4	49
26	Real-time monitoring of polymer swelling on the nanometer scale by atomic force microscopy. <i>Langmuir</i> , 2006 , 22, 4728-33	4	15
25	A microscopic view of physical and chemical activation in the synthesis of porous carbons. <i>Langmuir</i> , 2006 , 22, 9730-9	4	9
24	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. <i>Carbon</i> , 2006 , 44, 2469-2478	10.4	19
23	New structural insights into ordered porous carbon by scanning tunneling microscopy. <i>Microporous and Mesoporous Materials</i> , 2006 , 87, 268-271	5.3	
22	Surface characterisation of plasma-modified poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , 2006 , 293, 353-63	9.3	48
21	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. <i>Chemistry of Materials</i> , 2005 , 17, 5893-5908	9.6	68
20	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	9.3	40
19	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, 190-9	9.3	24
18	Structural investigation of zeolite-templated, ordered microporous carbon by scanning tunneling microscopy and Raman spectroscopy. <i>Langmuir</i> , 2005 , 21, 8817-23	4	30
17	Dispersions of individual single-walled carbon nanotubes of high length. <i>Langmuir</i> , 2004 , 20, 5149-52	4	118
16	Atomic-scale scanning tunneling microscopy study of plasma-oxidized ultrahigh-modulus carbon fiber surfaces. <i>Journal of Colloid and Interface Science</i> , 2003 , 258, 276-82	9.3	25
15	Atomic vacancy-induced friction on the graphite surface: observation by lateral force microscopy. <i>Journal of Microscopy</i> , 2003 , 210, 119-24	1.9	
14	Surface Characterization of PBO Fibers. <i>Macromolecules</i> , 2003 , 36, 8662-8672	5.5	26
13	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). <i>Chemistry of Materials</i> , 2003 , 15, 4052-4059	9.6	61
12	Detecting Surface Oxygen Groups on Carbon Nanofibers by Phase Contrast Imaging in Tapping Mode AFM. <i>Langmuir</i> , 2003 , 19, 7665-7668	4	11
11	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		10

10	Adsorption of n-alkanes on plasma-oxidized high-strength carbon fibers. <i>Journal of Colloid and Interface Science</i> , 2002 , 247, 290-302	9.3	14
9	Combining thermal analysis with other techniques to monitor the decomposition of poly(m-phenylene isophthalamide). <i>Magyar Árvad Kélemblyek</i> , 2002 , 70, 37-43	0	22
8	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. <i>Macromolecules</i> , 2002 , 35, 5085-5096	5.5	35
7	Early Stages of Plasma Oxidation of Graphite: Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. <i>Langmuir</i> , 2002 , 18, 4314-4323	4	27
6	High resolution imaging of functional group distributions on carbon surfaces by tapping mode atomic force microscopy. <i>Chemical Communications</i> , 2002 , 1790-1	5.8	4
5	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. <i>Journal of Materials Chemistry</i> , 2002 , 12, 3213-3219		26
4	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. <i>Langmuir</i> , 2001 , 17, 474-480	4	31
3	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. <i>Chemistry of Materials</i> , 2001 , 13, 4297-4304	9.6	73
2	Adhesion artefacts in atomic force microscopy imaging. <i>Journal of Microscopy</i> , 2000 , 200 (Pt 2), 109-13	1.9	17
1	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		39