

Juan I Paredes

List of Publications by Year in descending order

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81
papers

7,901
citations

126708

33
h-index

62479

80
g-index

81
all docs

81
docs citations

81
times ranked

11804
citing authors

#	ARTICLE	IF	CITATIONS
1	Irreversible deformation of hyper-crosslinked polymers after hydrogen adsorption. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 513-527.	5.0	11
2	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
3	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
4	Boosting the Performance of Graphene Cathodes in Na ₂ O ₂ Batteries by Exploiting the Multifunctional Character of Small Biomolecules. <i>Small</i> , 2021, 17, e2005034.	5.2	10
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> , 2021, 119, 158-165.	2.7	4
6	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.	2.2	19
7	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
8	Molecular Functionalization of 2H-Phase MoS ₂ Nanosheets via an Electrolytic Route for Enhanced Catalytic Performance. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33157-33171.	4.0	11
9	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
10	A Simple and Expeditious Route to Phosphate-Functionalized, Water-Processable Graphene for Capacitive Energy Storage. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 54860-54873.	4.0	9
11	High Performance Na-O ₂ Batteries and Printed Microsupercapacitors Based on Water-Processable, Biomolecule-Assisted Anodic Graphene. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 494-506.	4.0	32
12	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
13	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
14	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.	2.3	15
15	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
16	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
17	Aqueous Cathodic Exfoliation Strategy toward Solution-Processable and Phase-Preserved MoS ₂ Nanosheets for Energy Storage and Catalytic Applications. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 36991-37003.	4.0	43
18	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

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19	MoS ₂ flakes stabilized with DNA/RNA nucleotides: In vitro cell response. <i>Materials Science and Engineering C</i> , 2019, 100, 11-22.	3.8	4
20	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
21	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
22	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
23	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
24	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.	4.0	92
25	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
26	Electrochemical Synthesis and Characterization of Flavin Mononucleotide-Exfoliated Pristine Graphene/Polypyrrole Composites. <i>ChemElectroChem</i> , 2017, 4, 1487-1497.	1.7	11
27	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.	4.0	33
28	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.	4.0	46
29	Impact of Covalent Functionalization on the Aqueous Processability, Catalytic Activity, and Biocompatibility of Chemically Exfoliated MoS ₂ Nanosheets. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 27974-27986.	4.0	73
30	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
31	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
32	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, 10293-10307.	4.0	101
33	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, 24032-24045.	4.0	57
34	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
35	Chemically Exfoliated MoS ₂ Nanosheets as an Efficient Catalyst for Reduction Reactions in the Aqueous Phase. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 21702-21710.	4.0	126
36	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

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37	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
38	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
39	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
40	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
41	Global and Local Oxidation Behavior of Reduced Graphene Oxide. <i>Journal of Physical Chemistry C</i> , 2011, 115, 7956-7966.	1.5	36
42	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
43	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
44	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
45	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
46	Determining the thickness of chemically modified graphenes by scanning probe microscopy. <i>Carbon</i> , 2010, 48, 2657-2660.	5.4	46
47	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
48	A possible buckybowllike structure of zeolite templated carbon. <i>Carbon</i> , 2009, 47, 1220-1230.	5.4	243
49	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
50	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
51	Preparation of graphene dispersions and graphene-polymer composites in organic media. <i>Journal of Materials Chemistry</i> , 2009, 19, 3591.	6.7	293
52	Atomic Force and Scanning Tunneling Microscopy Imaging of Graphene Nanosheets Derived from Graphite Oxide. <i>Langmuir</i> , 2009, 25, 5957-5968.	1.6	631
53	New atomic-scale features in graphite surfaces treated in a dielectric barrier discharge plasma. <i>Carbon</i> , 2008, 46, 1364-1367.	5.4	6
54	Graphene Oxide Dispersions in Organic Solvents. <i>Langmuir</i> , 2008, 24, 10560-10564.	1.6	2,511

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55	Multiscale Imaging and Tip-Scratch Studies Reveal Insight into the Plasma Oxidation of Graphite. <i>Langmuir</i> , 2007, 23, 8932-8943.	1.6	53
56	Real-Time Monitoring of Polymer Swelling on the Nanometer Scale by Atomic Force Microscopy. <i>Langmuir</i> , 2006, 22, 4728-4733.	1.6	16
57	A Microscopic View of Physical and Chemical Activation in the Synthesis of Porous Carbons. <i>Langmuir</i> , 2006, 22, 9730-9739.	1.6	10
58	Imaging the structure and porosity of active carbons by scanning tunneling microscopy. <i>Carbon</i> , 2006, 44, 2469-2478.	5.4	20
59	New structural insights into ordered porous carbon by scanning tunneling microscopy. <i>Microporous and Mesoporous Materials</i> , 2006, 87, 268-271.	2.2	0
60	Surface characterisation of plasma-modified poly(ethylene terephthalate). <i>Journal of Colloid and Interface Science</i> , 2006, 293, 353-363.	5.0	49
61	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
62	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
63	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
64	Activated Carbon Materials of Uniform Porosity from Polyaramid Fibers. <i>Chemistry of Materials</i> , 2005, 17, 5893-5908.	3.2	82
65	Dispersions of Individual Single-Walled Carbon Nanotubes of High Length. <i>Langmuir</i> , 2004, 20, 5149-5152.	1.6	122
66	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
67	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
68	Surface Characterization of PBO Fibers. <i>Macromolecules</i> , 2003, 36, 8662-8672.	2.2	26
69	Studies on the Thermal Degradation of Poly (p-phenylene benzobisoxazole). <i>Chemistry of Materials</i> , 2003, 15, 4052-4059.	3.2	63
70	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
71	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
72	Surface Characterization of PPTA Fibers Using Inverse Gas Chromatography. <i>Macromolecules</i> , 2002, 35, 5085-5096.	2.2	36

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73	Early Stages of Plasma Oxidation of Graphite: Nanoscale Physicochemical Changes As Detected by Scanning Probe Microscopies. Langmuir, 2002, 18, 4314-4323.	1.6	29
74	High resolution imaging of functional group distributions on carbon surfaces by tapping mode atomic force microscopy. Chemical Communications, 2002, , 1790-1791.	2.2	4
75	Preparation and porous texture characteristics of fibrous ultrahigh surface area carbons. Journal of Materials Chemistry, 2002, 12, 3213-3219.	6.7	27
76	Adsorption of n-Alkanes on Plasma-Oxidized High-Strength Carbon Fibers. Journal of Colloid and Interface Science, 2002, 247, 290-302.	5.0	16
77	Title is missing!. Magyar Apr ³ vad K ³ zlem ³ nyek, 2002, 70, 37-43.	1.4	24
78	Characterization of Microporosity and Mesoporosity in Carbonaceous Materials by Scanning Tunneling Microscopy. Langmuir, 2001, 17, 474-480.	1.6	32
79	Atomic Force Microscopy and Infrared Spectroscopy Studies of the Thermal Degradation of Nomex Aramid Fibers. Chemistry of Materials, 2001, 13, 4297-4304.	3.2	83
80	Adhesion artefacts in atomic force microscopy imaging. Journal of Microscopy, 2000, 200, 109-113.	0.8	17
81	Atomic force microscopy investigation of the surface modification of highly oriented pyrolytic graphite by oxygen plasma. Journal of Materials Chemistry, 2000, 10, 1585-1591.	6.7	41