

Ester Vzquez

List of Publications by Year in Descending Order

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Version: 2024-04-27

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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.

111
papers

6,223
citations

39
h-index

78
g-index

127
ext. papers

7,154
ext. citations

9
avg, IF

5.82
L-index

#	Paper	IF	Citations
111	Eco-friendly mechanochemical synthesis of titania-graphene nanocomposites for pesticide photodegradation. <i>Separation and Purification Technology</i> , 2022 , 120638	8.3	1
110	Is airborne graphene oxide a possible hazard for the sexual reproduction of wind-pollinated plants?. <i>Science of the Total Environment</i> , 2022 , 154625	10.2	0
109	Rapid and efficient testing of the toxicity of graphene-related materials in primary human lung cells.. <i>Scientific Reports</i> , 2022 , 12, 7664	4.9	1
108	Graphene environmental biodegradation: Wood degrading and saprotrophic fungi oxidize few-layer graphene. <i>Journal of Hazardous Materials</i> , 2021 , 414, 125553	12.8	5
107	The lipid composition of few layers graphene and graphene oxide biomolecular corona. <i>Carbon</i> , 2021 , 185, 591-591	10.4	2
106	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. <i>JPhys Materials</i> , 2020 , 3, 034009	4.2	20
105	Repeated exposure to aerosolized graphene oxide mediates autophagy inhibition and inflammation in a three-dimensional human airway model. <i>Materials Today Bio</i> , 2020 , 6, 100050	9.9	14
104	Stimuli-responsive graphene-based hydrogel driven by disruption of triazine hydrophobic interactions. <i>Nanoscale</i> , 2020 , 12, 7072-7081	7.7	7
103	Microwave-assisted functionalization of carbon nanohorns with oligothiophene units with SERS activity. <i>Chemical Communications</i> , 2020 , 56, 8948-8951	5.8	1
102	Few Layer Graphene Does Not Affect Cellular Homeostasis of Mouse Macrophages. <i>Nanomaterials</i> , 2020 , 10,	5.4	11
101	Tuning Neuronal Circuit Formation in 3D Polymeric Scaffolds by Introducing Graphene at the Bio/Material Interface. <i>Advanced Biology</i> , 2020 , 4, e1900233	3.5	8
100	Beyond graphene oxide acidity: Novel insights into graphene related materials effects on the sexual reproduction of seed plants. <i>Journal of Hazardous Materials</i> , 2020 , 393, 122380	12.8	6
99	Production and processing of graphene and related materials. <i>2D Materials</i> , 2020 , 7, 022001	5.9	179
98	Conjugation with carbon nanotubes improves the performance of mesoporous silicon as Li-ion battery anode. <i>Scientific Reports</i> , 2020 , 10, 5589	4.9	17
97	Molecular adsorption of iminotriazine derivatives on graphene. <i>JPhys Materials</i> , 2020 , 3, 034011	4.2	3
96	Mechanochemical preparation of piezoelectric nanomaterials: BN, MoS ₂ and WS ₂ 2D materials and their glycine-cocrystals. <i>Nanoscale Horizons</i> , 2020 , 5, 331-335	10.8	6
95	Skin irritation potential of graphene-based materials using a non-animal test. <i>Nanoscale</i> , 2020 , 12, 610-627	7.7	21

94	Tailored Methodology Based on Vapor Phase Polymerization to Manufacture PEDOT/CNT Scaffolds for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1269-1278	5.5	21
93	Keratinocytes are capable of selectively sensing low amounts of graphene-based materials: Implications for cutaneous applications. <i>Carbon</i> , 2020 , 159, 598-610	10.4	7
92	Autonomous self-healing hydrogel with anti-drying properties and applications in soft robotics. <i>Applied Materials Today</i> , 2020 , 21, 100806	6.6	12
91	On-Demand Hydrophobic Drug Release Based on Microwave-Responsive Graphene Hydrogel Scaffolds. <i>Chemistry - A European Journal</i> , 2020 , 26, 17069-17080	4.8	5
90	Sublethal exposure of small few-layer graphene promotes metabolic alterations in human skin cells. <i>Scientific Reports</i> , 2020 , 10, 18407	4.9	7
89	Effects of Few-Layer Graphene on the Sexual Reproduction of Seed Plants: An In Vivo Study with <i>L. Nanomaterials</i> , 2020 , 10,	5.4	3
88	Partial Reversibility of the Cytotoxic Effect Induced by Graphene-Based Materials in Skin Keratinocytes. <i>Nanomaterials</i> , 2020 , 10,	5.4	3
87	Concentration Gradient-Based Soft Robotics: Hydrogels Out of Water. <i>Advanced Functional Materials</i> , 2020 , 30, 2004417	15.6	11
86	Physically Cross-Linked Hydrogel Based on Phenyl-1,3,5-triazine: Soft Scaffold with Aggregation-Induced Emission. <i>ACS Macro Letters</i> , 2019 , 8, 1391-1395	6.6	15
85	Modulation of waveguide behaviour of an ICT 2H-Benzo[d][1,2,3]Triazole derivative with graphene. <i>Organic Electronics</i> , 2019 , 68, 1-8	3.5	4
84	Few layer graphene does not affect the function and the autophagic activity of primary lymphocytes. <i>Nanoscale</i> , 2019 , 11, 10493-10503	7.7	4
83	An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes. <i>Small</i> , 2019 , 15, e1900147	11	24
82	Graphene hybrid materials? The role of graphene materials in the final structure of hydrogels. <i>Nanoscale</i> , 2019 , 11, 4822-4830	7.7	19
81	A new soft fingertip based on electroactive hydrogels 2019 ,		2
80	Graphene-based materials do not impair physiology, gene expression and growth dynamics of the aeroterrestrial microalga. <i>Nanotoxicology</i> , 2019 , 13, 492-509	5.3	8
79	Experimental, Numerical, and Analytical Study on The Effect of Graphene Oxide in The Mechanical Properties of a Solvent-Free Reinforced Epoxy Resin. <i>Polymers</i> , 2019 , 11,	4.5	5
78	Production of ready-to-use few-layer graphene in aqueous suspensions. <i>Nature Protocols</i> , 2018 , 13, 495-508		54
77	Smart Hybrid Graphene Hydrogels: A Study of the Different Responses to Mechanical Stretching Stimulus. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 1987-1995	9.5	42

76	Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity. <i>2D Materials</i> , 2018 , 5, 035014	5.9	9
75	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie</i> , 2018 , 130, 11896-11901	3.6	9
74	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie - International Edition</i> , 2018 , 57, 11722-11727	16.4	91
73	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , 2018 , 14, e1800227	11	27
72	Graphene Quantum Dot-Aerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18192-18201	9.5	32
71	Advantageous Microwave-Assisted Suzuki Polycondensation for the Synthesis of Aniline-Fluorene Alternate Copolymers as Molecular Model with Solvent Sensing Properties. <i>Polymers</i> , 2018 , 10,	4.5	9
70	Graphene Oxide Upregulates the Homeostatic Functions of Primary Astrocytes and Modulates Astrocyte-to-Neuron Communication. <i>Nano Letters</i> , 2018 , 18, 5827-5838	11.5	37
69	Differential effects of graphene materials on the metabolism and function of human skin cells. <i>Nanoscale</i> , 2018 , 10, 11604-11615	7.7	31
68	Graphene and graphene oxide induce ROS production in human HaCaT skin keratinocytes: the role of xanthine oxidase and NADH dehydrogenase. <i>Nanoscale</i> , 2018 , 10, 11820-11830	7.7	70
67	Three-Dimensional Conductive Scaffolds as Neural Prostheses Based on Carbon Nanotubes and Polypyrrole. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 43904-43914	9.5	29
66	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , 2018 , 12, 10582-10620	16.7	292
65	Sweet graphene: exfoliation of graphite and preparation of glucose-graphene cocrystals through mechanochemical treatments. <i>Green Chemistry</i> , 2018 , 20, 3581-3592	10	37
64	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 3014-3019	16.4	48
63	Differential cytotoxic effects of graphene and graphene oxide on skin keratinocytes. <i>Scientific Reports</i> , 2017 , 7, 40572	4.9	112
62	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie</i> , 2017 , 129, 3060-3065	3.6	5
61	Gold nanoparticles as analytical tools for the quantification of small quantities of triazine derivatives anchored on graphene in water dispersions. <i>RSC Advances</i> , 2017 , 7, 21982-21987	3.7	2
60	Targeted killing of prostate cancer cells using antibody-drug conjugated carbon nanohorns. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 8821-8832	7.3	12
59	Graphene Improves the Biocompatibility of Polyacrylamide Hydrogels: 3D Polymeric Scaffolds for Neuronal Growth. <i>Scientific Reports</i> , 2017 , 7, 10942	4.9	59

58	Promises, facts and challenges for graphene in biomedical applications. <i>Chemical Society Reviews</i> , 2017 , 46, 4400-4416	58.5	415
57	Carbon Nanohorns Modified with Conjugated Terthienyl/Terthiophene Structures: Additives to Enhance the Performance of Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , 2017 , 7,	5.4	4
56	Stability of melamine-exfoliated graphene in aqueous media: quantum-mechanical insights at the nanoscale. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 22203-9	3.6	14
55	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. <i>ACS Nano</i> , 2016 , 10, 615-23	16.7	172
54	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- α Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. <i>PLoS ONE</i> , 2016 , 11, e0166816	3.7	58
53	Triazine-Carbon Nanotubes: New Platforms for the Design of Flavin Receptors. <i>Chemistry - A European Journal</i> , 2016 , 22, 8879-88	4.8	2
52	Production and stability of mechanochemically exfoliated graphene in water and culture media. <i>Nanoscale</i> , 2016 , 8, 14548-55	7.7	42
51	Graphene Oxide Nanosheets Disrupt Lipid Composition, Ca(2+) Homeostasis, and Synaptic Transmission in Primary Cortical Neurons. <i>ACS Nano</i> , 2016 , 10, 7154-71	16.7	93
50	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. <i>ACS Nano</i> , 2016 , 10, 4459-71	16.7	101
49	Interaction of graphene-related materials with human intestinal cells: an in vitro approach. <i>Nanoscale</i> , 2016 , 8, 8749-60	7.7	31
48	Surface Area of Carbon Nanoparticles: A Dose Metric for a More Realistic Ecotoxicological Assessment. <i>Nano Letters</i> , 2016 , 16, 3514-8	11.5	29
47	Design of Assembled Systems Based on Conjugated Polyphenylene Derivatives and Carbon Nanohorns. <i>Chemistry - A European Journal</i> , 2016 , 22, 11643-51	4.8	3
46	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , 2015 , 11, 3985-94	16.7	176
45	Nanocomposite Hydrogels: 3D Polymer-Nanoparticle Synergies for On-Demand Drug Delivery. <i>ACS Nano</i> , 2015 , 9, 4686-97	16.7	497
44	Graphene-based electroresponsive scaffolds as polymeric implants for on-demand drug delivery. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1334-43	10.1	116
43	Exfoliation of graphite with triazine derivatives under ball-milling conditions: preparation of few-layer graphene via selective noncovalent interactions. <i>ACS Nano</i> , 2014 , 8, 563-71	16.7	205
42	Carbon nanohorns as alternative gene delivery vectors. <i>RSC Advances</i> , 2014 , 4, 27315	3.7	17
41	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. <i>Nano Research</i> , 2014 , 7, 963-972	10	62

40	Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , 2014 , 53, 7714-8	16.4	287
39	Carbon nanotubes: synthesis, structure, functionalization, and characterization. <i>Topics in Current Chemistry</i> , 2014 , 350, 65-109		5
38	Non-conventional methods and media for the activation and manipulation of carbon nanoforms. <i>Chemical Society Reviews</i> , 2014 , 43, 58-69	58.5	65
37	Carbon nanohorns as integrative materials for efficient dye-sensitized solar cells. <i>Advanced Materials</i> , 2013 , 25, 6513-8	24	39
36	An atom-economical approach to functionalized single-walled carbon nanotubes: reaction with disulfides. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 6480-3	16.4	24
35	Organic functionalization of graphene in dispersions. <i>Accounts of Chemical Research</i> , 2013 , 46, 138-48	24.3	198
34	An Atom-Economical Approach to Functionalized Single-Walled Carbon Nanotubes: Reaction with Disulfides. <i>Angewandte Chemie</i> , 2013 , 125, 6608-6611	3.6	4
33	Synthesis and characterization of highly water-soluble dendrofulleropyrrolidine bisadducts with DNA binding activity. <i>Organic Letters</i> , 2012 , 14, 4450-3	6.2	8
32	Enhanced docetaxel-mediated cytotoxicity in human prostate cancer cells through knockdown of cofilin-1 by carbon nanohorn delivered siRNA. <i>Biomaterials</i> , 2012 , 33, 8152-9	15.6	39
31	Carbon nanohorns functionalized with polyamidoamine dendrimers as efficient biocarrier materials for gene therapy. <i>Carbon</i> , 2012 , 50, 2832-2844	10.4	50
30	Few-layer graphenes from ball-milling of graphite with melamine. <i>Chemical Communications</i> , 2011 , 47, 10936-8	5.8	265
29	Ball-milling modification of single-walled carbon nanotubes: purification, cutting, and functionalization. <i>Small</i> , 2011 , 7, 665-74	11	57
28	Synthesis and Spectroscopic Properties of Porphyrin Derivatives of C60. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 521, 253-264	0.5	3
27	Photoluminescence and Electro-Optic Kerr Effect in Porphyrin Derivatives of C60. <i>Molecular Crystals and Liquid Crystals</i> , 2010 , 522, 191/[491]-202/[502]	0.5	
26	Functionalization of carbon nanotubes for applications in materials science and nanomedicine. <i>Pure and Applied Chemistry</i> , 2010 , 82, 853-861	2.1	17
25	Versatile microwave-induced reactions for the multiple functionalization of carbon nanotubes. <i>Organic and Biomolecular Chemistry</i> , 2010 , 8, 1936-42	3.9	21
24	Carbon nanotubes and microwaves: interactions, responses, and applications. <i>ACS Nano</i> , 2009 , 3, 3819-246.7	24.7	240
23	Efficient functionalization of carbon nanohorns via microwave irradiation. <i>Journal of Materials Chemistry</i> , 2009 , 19, 4407		41

22	Photophysical, electrochemical, and mesomorphic properties of a liquid-crystalline [60]fullerene- β -alkylated ferrocene dyad. <i>Journal of Materials Chemistry</i> , 2008 , 18, 1504		31
21	Microwave-induced multiple functionalization of carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2008 , 130, 8094-100	16.4	144
20	Microwave-assisted reactions in heterocyclic compounds with applications in medicinal and supramolecular chemistry. <i>Combinatorial Chemistry and High Throughput Screening</i> , 2007 , 10, 877-902	1.3	43
19	Green and chemoselective oxidation of sulfides with sodium perborate and sodium percarbonate: nucleophilic and electrophilic character of the oxidation system. <i>Green Chemistry</i> , 2007 , 9, 331-336	10	55
18	Reversible microwave-assisted cycloaddition of aziridines to carbon nanotubes. <i>Journal of the American Chemical Society</i> , 2007 , 129, 14580-1	16.4	103
17	A dendritic fullerene-porphyrin dyad. <i>Photochemical and Photobiological Sciences</i> , 2006 , 5, 1137-41	4.2	15
16	Liquid-crystalline bisadducts of [60]fullerene. <i>Journal of Organic Chemistry</i> , 2006 , 71, 7603-10	4.2	27
15	An Efficient One-Pot Synthesis of Phenol Derivatives by Ring Opening and Rearrangement of Diels-Alder Cycloadducts of Substituted Furans Using Heterogeneous Catalysis and Microwave Irradiation. <i>Synlett</i> , 2004 , 2004, 1259-1263	2.2	17
14	Functionalised single wall carbon nanotubes/polypyrrole composites for the preparation of amperometric glucose biosensors. <i>Journal of Materials Chemistry</i> , 2004 , 14, 807-810		80
13	Liquid-crystalline fullerene-ferrocene dyads. <i>Journal of Materials Chemistry</i> , 2004 , 14, 1266-1272		86
12	Single-wall carbon nanotube-ferrocene nanohybrids: observing intramolecular electron transfer in functionalized SWNTs. <i>Angewandte Chemie - International Edition</i> , 2003 , 42, 4206-9	16.4	174
11	Anion recognition by functionalized single wall carbon nanotubes. <i>Chemical Communications</i> , 2003 , 2576-78		33
10	Synthesis and Molecular Modeling Studies of Fullerene- β ,6,7-Trimethoxyindole-Digonucleotide Conjugates as Possible Probes for Study of Photochemical Reactions in DNA Triple Helices. <i>European Journal of Organic Chemistry</i> , 2002 , 2002, 405-413	3.2	19
9	Design, synthesis and biological properties of fulleropyrrolidine derivatives as potential DNA photo-probes. <i>Journal of Supramolecular Chemistry</i> , 2002 , 2, 327-334		9
8	Purification of HiPCO carbon nanotubes via organic functionalization. <i>Journal of the American Chemical Society</i> , 2002 , 124, 14318-9	16.4	190
7	Microwave-assisted purification of HiPCO carbon nanotubes. <i>Chemical Communications</i> , 2002 , 2308-9	5.8	50
6	Preparation of α - and β -substituted alanine derivatives by α -amidoalkylation or Michael addition reactions under heterogeneous catalysis assisted by microwave irradiation. <i>Tetrahedron</i> , 2001 , 57, 5421-5428	2.4	31
5	Tandem Diels-Alder Aromatization Reactions of Furans under Unconventional Reaction Conditions [Experimental and Theoretical Studies]. <i>European Journal of Organic Chemistry</i> , 2001 , 2001, 2891	3.2	27

4	Novel versatile fullerene synthons. <i>Journal of Organic Chemistry</i> , 2001 , 66, 4915-20	4.2	122
3	Synergy between Heterogeneous Catalysis and Microwave Irradiation in an Efficient One-Pot Synthesis of Benzene Derivatives via Ring-Opening of Diels-Alder Cycloadducts of Substituted Furans. <i>Synlett</i> , 2001 , 2001, 0753-0756	2.2	14
2	Use of Microwave Irradiation and Solid Acid Catalysts in an Enhanced and Environmentally Friendly Synthesis of Coumarin Derivatives. <i>Synlett</i> , 1999 , 1999, 608-610	2.2	58
1	Heck Reactions under Microwave Irradiation in Solvent-Free Conditions. <i>Synlett</i> , 1997 , 1997, 269-270	2.2	35