

# Ester Vazquez

## List of Publications by Citations

**Source:** <https://exaly.com/author-pdf/8724039/ester-vazquez-publications-by-citations.pdf>

**Version:** 2024-04-27

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.

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	Nanocomposite Hydrogels: 3D Polymer-Nanoparticle Synergies for On-Demand Drug Delivery. <i>ACS Nano</i> , <b>2015</b> , 9, 4686-97	16.7	497
110	Promises, facts and challenges for graphene in biomedical applications. <i>Chemical Society Reviews</i> , <b>2017</b> , 46, 4400-4416	58.5	415
109	Safety Assessment of Graphene-Based Materials: Focus on Human Health and the Environment. <i>ACS Nano</i> , <b>2018</b> , 12, 10582-10620	16.7	292
108	Classification framework for graphene-based materials. <i>Angewandte Chemie - International Edition</i> , <b>2014</b> , 53, 7714-8	16.4	287
107	Few-layer graphenes from ball-milling of graphite with melamine. <i>Chemical Communications</i> , <b>2011</b> , 47, 10936-8	5.8	265
106	Carbon nanotubes and microwaves: interactions, responses, and applications. <i>ACS Nano</i> , <b>2009</b> , 3, 3819-24	16.7	240
105	Exfoliation of graphite with triazine derivatives under ball-milling conditions: preparation of few-layer graphene via selective noncovalent interactions. <i>ACS Nano</i> , <b>2014</b> , 8, 563-71	16.7	205
104	Organic functionalization of graphene in dispersions. <i>Accounts of Chemical Research</i> , <b>2013</b> , 46, 138-48	24.3	198
103	Purification of HiPCO carbon nanotubes via organic functionalization. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 14318-9	16.4	190
102	Production and processing of graphene and related materials. <i>2D Materials</i> , <b>2020</b> , 7, 022001	5.9	179
101	Dispersibility-Dependent Biodegradation of Graphene Oxide by Myeloperoxidase. <i>Small</i> , <b>2015</b> , 11, 3985-94	16.7	176
100	Single-wall carbon nanotube-ferrocene nanohybrids: observing intramolecular electron transfer in functionalized SWNTs. <i>Angewandte Chemie - International Edition</i> , <b>2003</b> , 42, 4206-9	16.4	174
99	Graphene-Based Interfaces Do Not Alter Target Nerve Cells. <i>ACS Nano</i> , <b>2016</b> , 10, 615-23	16.7	172
98	Microwave-induced multiple functionalization of carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 8094-100	16.4	144
97	Novel versatile fullerene synthons. <i>Journal of Organic Chemistry</i> , <b>2001</b> , 66, 4915-20	4.2	122
96	Graphene-based electroresponsive scaffolds as polymeric implants for on-demand drug delivery. <i>Advanced Healthcare Materials</i> , <b>2014</b> , 3, 1334-43	10.1	116
95	Differential cytotoxic effects of graphene and graphene oxide on skin keratinocytes. <i>Scientific Reports</i> , <b>2017</b> , 7, 40572	4.9	112

94	Reversible microwave-assisted cycloaddition of aziridines to carbon nanotubes. <i>Journal of the American Chemical Society</i> , <b>2007</b> , 129, 14580-1	16.4	103
93	Graphene Oxide Nanosheets Reshape Synaptic Function in Cultured Brain Networks. <i>ACS Nano</i> , <b>2016</b> , 10, 4459-71	16.7	101
92	Graphene Oxide Nanosheets Disrupt Lipid Composition, Ca(2+) Homeostasis, and Synaptic Transmission in Primary Cortical Neurons. <i>ACS Nano</i> , <b>2016</b> , 10, 7154-71	16.7	93
91	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie - International Edition</i> , <b>2018</b> , 57, 11722-11727	16.4	91
90	Liquid-crystalline fullerene/ferrocene dyads. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 1266-1272		86
89	Functionalised single wall carbon nanotubes/polypyrrole composites for the preparation of amperometric glucose biosensors. <i>Journal of Materials Chemistry</i> , <b>2004</b> , 14, 807-810		80
88	Graphene and graphene oxide induce ROS production in human HaCaT skin keratinocytes: the role of xanthine oxidase and NADH dehydrogenase. <i>Nanoscale</i> , <b>2018</b> , 10, 11820-11830	7.7	70
87	Non-conventional methods and media for the activation and manipulation of carbon nanoforms. <i>Chemical Society Reviews</i> , <b>2014</b> , 43, 58-69	58.5	65
86	Selective suspension of single layer graphene mechanochemically exfoliated from carbon nanofibres. <i>Nano Research</i> , <b>2014</b> , 7, 963-972	10	62
85	Graphene Improves the Biocompatibility of Polyacrylamide Hydrogels: 3D Polymeric Scaffolds for Neuronal Growth. <i>Scientific Reports</i> , <b>2017</b> , 7, 10942	4.9	59
84	Use of Microwave Irradiation and Solid Acid Catalysts in an Enhanced and Environmentally Friendly Synthesis of Coumarin Derivatives. <i>Synlett</i> , <b>1999</b> , 1999, 608-610	2.2	58
83	Detection of Endotoxin Contamination of Graphene Based Materials Using the TNF- $\alpha$ Expression Test and Guidelines for Endotoxin-Free Graphene Oxide Production. <i>PLoS ONE</i> , <b>2016</b> , 11, e0166816	3.7	58
82	Ball-milling modification of single-walled carbon nanotubes: purification, cutting, and functionalization. <i>Small</i> , <b>2011</b> , 7, 665-74	11	57
81	Green and chemoselective oxidation of sulfides with sodium perborate and sodium percarbonate: nucleophilic and electrophilic character of the oxidation system. <i>Green Chemistry</i> , <b>2007</b> , 9, 331-336	10	55
80	Production of ready-to-use few-layer graphene in aqueous suspensions. <i>Nature Protocols</i> , <b>2018</b> , 13, 495-506	5.8	54
79	Carbon nanohorns functionalized with polyamidoamine dendrimers as efficient biocarrier materials for gene therapy. <i>Carbon</i> , <b>2012</b> , 50, 2832-2844	10.4	50
78	Microwave-assisted purification of HiPCO carbon nanotubes. <i>Chemical Communications</i> , <b>2002</b> , 2308-9	5.8	50
77	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie - International Edition</i> , <b>2017</b> , 56, 3014-3019	16.4	48

76	Microwave-assisted reactions in heterocyclic compounds with applications in medicinal and supramolecular chemistry. <i>Combinatorial Chemistry and High Throughput Screening</i> , <b>2007</b> , 10, 877-902	1.3	43
75	Smart Hybrid Graphene Hydrogels: A Study of the Different Responses to Mechanical Stretching Stimulus. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 1987-1995	9.5	42
74	Production and stability of mechanochemically exfoliated graphene in water and culture media. <i>Nanoscale</i> , <b>2016</b> , 8, 14548-55	7.7	42
73	Efficient functionalization of carbon nanohorns via microwave irradiation. <i>Journal of Materials Chemistry</i> , <b>2009</b> , 19, 4407		41
72	Carbon nanohorns as integrative materials for efficient dye-sensitized solar cells. <i>Advanced Materials</i> , <b>2013</b> , 25, 6513-8	24	39
71	Enhanced docetaxel-mediated cytotoxicity in human prostate cancer cells through knockdown of cofilin-1 by carbon nanohorn delivered siRNA. <i>Biomaterials</i> , <b>2012</b> , 33, 8152-9	15.6	39
70	Graphene Oxide Upregulates the Homeostatic Functions of Primary Astrocytes and Modulates Astrocyte-to-Neuron Communication. <i>Nano Letters</i> , <b>2018</b> , 18, 5827-5838	11.5	37
69	Sweet graphene: exfoliation of graphite and preparation of glucose-graphene cocrystals through mechanochemical treatments. <i>Green Chemistry</i> , <b>2018</b> , 20, 3581-3592	10	37
68	Heck Reactions under Microwave Irradiation in Solvent-Free Conditions. <i>Synlett</i> , <b>1997</b> , 1997, 269-270	2.2	35
67	Anion recognition by functionalized single wall carbon nanotubes. <i>Chemical Communications</i> , <b>2003</b> , 2576-78	5.7	33
66	Graphene Quantum Dot-Aerogel: From Nanoscopic to Macroscopic Fluorescent Materials. Sensing Polyaromatic Compounds in Water. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 18192-18201	9.5	32
65	Differential effects of graphene materials on the metabolism and function of human skin cells. <i>Nanoscale</i> , <b>2018</b> , 10, 11604-11615	7.7	31
64	Photophysical, electrochemical, and mesomorphic properties of a liquid-crystalline [60]fullerene-peralkylated ferrocene dyad. <i>Journal of Materials Chemistry</i> , <b>2008</b> , 18, 1504		31
63	Preparation of $\alpha$ - and $\beta$ -substituted alanine derivatives by $\alpha$ -amidoalkylation or Michael addition reactions under heterogeneous catalysis assisted by microwave irradiation. <i>Tetrahedron</i> , <b>2001</b> , 57, 5421-5428	2.4	31
62	Interaction of graphene-related materials with human intestinal cells: an in vitro approach. <i>Nanoscale</i> , <b>2016</b> , 8, 8749-60	7.7	31
61	Surface Area of Carbon Nanoparticles: A Dose Metric for a More Realistic Ecotoxicological Assessment. <i>Nano Letters</i> , <b>2016</b> , 16, 3514-8	11.5	29
60	Three-Dimensional Conductive Scaffolds as Neural Prostheses Based on Carbon Nanotubes and Polypyrrole. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2018</b> , 10, 43904-43914	9.5	29
59	Biotransformation and Biological Interaction of Graphene and Graphene Oxide during Simulated Oral Ingestion. <i>Small</i> , <b>2018</b> , 14, e1800227	11	27

58	Liquid-crystalline bisadducts of [60]fullerene. <i>Journal of Organic Chemistry</i> , <b>2006</b> , 71, 7603-10	4.2	27
57	Tandem Diels-Alder Aromatization Reactions of Furans under Unconventional Reaction Conditions [Experimental and Theoretical Studies. <i>European Journal of Organic Chemistry</i> , <b>2001</b> , 2001, 2891	3.2	27
56	An Increase in Membrane Cholesterol by Graphene Oxide Disrupts Calcium Homeostasis in Primary Astrocytes. <i>Small</i> , <b>2019</b> , 15, e1900147	11	24
55	An atom-economical approach to functionalized single-walled carbon nanotubes: reaction with disulfides. <i>Angewandte Chemie - International Edition</i> , <b>2013</b> , 52, 6480-3	16.4	24
54	Versatile microwave-induced reactions for the multiple functionalization of carbon nanotubes. <i>Organic and Biomolecular Chemistry</i> , <b>2010</b> , 8, 1936-42	3.9	21
53	Skin irritation potential of graphene-based materials using a non-animal test. <i>Nanoscale</i> , <b>2020</b> , 12, 610-622	21	21
52	Tailored Methodology Based on Vapor Phase Polymerization to Manufacture PEDOT/CNT Scaffolds for Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , <b>2020</b> , 6, 1269-1278	5.5	21
51	Graphene, other carbon nanomaterials and the immune system: toward nanoimmunity-by-design. <i>JPhys Materials</i> , <b>2020</b> , 3, 034009	4.2	20
50	Graphene hybrid materials? The role of graphene materials in the final structure of hydrogels. <i>Nanoscale</i> , <b>2019</b> , 11, 4822-4830	7.7	19
49	Synthesis and Molecular Modeling Studies of Fullerene[6,6,7-Trimethoxyindole]oligonucleotide Conjugates as Possible Probes for Study of Photochemical Reactions in DNA Triple Helices. <i>European Journal of Organic Chemistry</i> , <b>2002</b> , 2002, 405-413	3.2	19
48	Conjugation with carbon nanotubes improves the performance of mesoporous silicon as Li-ion battery anode. <i>Scientific Reports</i> , <b>2020</b> , 10, 5589	4.9	17
47	Carbon nanohorns as alternative gene delivery vectors. <i>RSC Advances</i> , <b>2014</b> , 4, 27315	3.7	17
46	Functionalization of carbon nanotubes for applications in materials science and nanomedicine. <i>Pure and Applied Chemistry</i> , <b>2010</b> , 82, 853-861	2.1	17
45	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> , <b>2004</b> , 2004, 1259-1263	2.2	17
44	Physically Cross-Linked Hydrogel Based on Phenyl-1,3,5-triazine: Soft Scaffold with Aggregation-Induced Emission. <i>ACS Macro Letters</i> , <b>2019</b> , 8, 1391-1395	6.6	15
43	A dendritic fullerene-porphyrin dyad. <i>Photochemical and Photobiological Sciences</i> , <b>2006</b> , 5, 1137-41	4.2	15
42	Repeated exposure to aerosolized graphene oxide mediates autophagy inhibition and inflammation in a three-dimensional human airway model. <i>Materials Today Bio</i> , <b>2020</b> , 6, 100050	9.9	14
41	Stability of melamine-exfoliated graphene in aqueous media: quantum-mechanical insights at the nanoscale. <i>Physical Chemistry Chemical Physics</i> , <b>2016</b> , 18, 22203-9	3.6	14

40	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> , <b>2001</b> , 2001, 0753-0756	2.2	14
39	Targeted killing of prostate cancer cells using antibody-drug conjugated carbon nanohorns. <i>Journal of Materials Chemistry B</i> , <b>2017</b> , 5, 8821-8832	7.3	12
38	Autonomous self-healing hydrogel with anti-drying properties and applications in soft robotics. <i>Applied Materials Today</i> , <b>2020</b> , 21, 100806	6.6	12
37	Few Layer Graphene Does Not Affect Cellular Homeostasis of Mouse Macrophages. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	11
36	Concentration Gradient-Based Soft Robotics: Hydrogels Out of Water. <i>Advanced Functional Materials</i> , <b>2020</b> , 30, 2004417	15.6	11
35	Impact of graphene oxide on human placental trophoblast viability, functionality and barrier integrity. <i>2D Materials</i> , <b>2018</b> , 5, 035014	5.9	9
34	Degradation of Single-Layer and Few-Layer Graphene by Neutrophil Myeloperoxidase. <i>Angewandte Chemie</i> , <b>2018</b> , 130, 11896-11901	3.6	9
33	Advantageous Microwave-Assisted Suzuki Polycondensation for the Synthesis of Aniline-Fluorene Alternate Copolymers as Molecular Model with Solvent Sensing Properties. <i>Polymers</i> , <b>2018</b> , 10,	4.5	9
32	Design, synthesis and biological properties of fulleropyrrolidine derivatives as potential DNA photo-probes. <i>Journal of Supramolecular Chemistry</i> , <b>2002</b> , 2, 327-334		9
31	Tuning Neuronal Circuit Formation in 3D Polymeric Scaffolds by Introducing Graphene at the Bio/Material Interface. <i>Advanced Biology</i> , <b>2020</b> , 4, e1900233	3.5	8
30	Graphene-based materials do not impair physiology, gene expression and growth dynamics of the aeroterrestrial microalga. <i>Nanotoxicology</i> , <b>2019</b> , 13, 492-509	5.3	8
29	Synthesis and characterization of highly water-soluble dendrofulleropyrrolidine bisadducts with DNA binding activity. <i>Organic Letters</i> , <b>2012</b> , 14, 4450-3	6.2	8
28	Stimuli-responsive graphene-based hydrogel driven by disruption of triazine hydrophobic interactions. <i>Nanoscale</i> , <b>2020</b> , 12, 7072-7081	7.7	7
27	Keratinocytes are capable of selectively sensing low amounts of graphene-based materials: Implications for cutaneous applications. <i>Carbon</i> , <b>2020</b> , 159, 598-610	10.4	7
26	Sublethal exposure of small few-layer graphene promotes metabolic alterations in human skin cells. <i>Scientific Reports</i> , <b>2020</b> , 10, 18407	4.9	7
25	Beyond graphene oxide acidity: Novel insights into graphene related materials effects on the sexual reproduction of seed plants. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 393, 122380	12.8	6
24	Mechanochemical preparation of piezoelectric nanomaterials: BN, MoS <sub>2</sub> and WS <sub>2</sub> 2D materials and their glycine-cocrystals. <i>Nanoscale Horizons</i> , <b>2020</b> , 5, 331-335	10.8	6
23	Few-Layer Graphene Kills Selectively Tumor Cells from Myelomonocytic Leukemia Patients. <i>Angewandte Chemie</i> , <b>2017</b> , 129, 3060-3065	3.6	5

22	Carbon nanotubes: synthesis, structure, functionalization, and characterization. <i>Topics in Current Chemistry</i> , <b>2014</b> , 350, 65-109		5
21	On-Demand Hydrophobic Drug Release Based on Microwave-Responsive Graphene Hydrogel Scaffolds. <i>Chemistry - A European Journal</i> , <b>2020</b> , 26, 17069-17080	4.8	5
20	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> , <b>2019</b> , 11,	4.5	5
19	Graphene environmental biodegradation: Wood degrading and saprotrophic fungi oxidize few-layer graphene. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 414, 125553	12.8	5
18	Modulation of waveguide behaviour of an ICT 2H-Benzo[d][1,2,3]Triazole derivative with graphene. <i>Organic Electronics</i> , <b>2019</b> , 68, 1-8	3.5	4
17	Few layer graphene does not affect the function and the autophagic activity of primary lymphocytes. <i>Nanoscale</i> , <b>2019</b> , 11, 10493-10503	7.7	4
16	Carbon Nanohorns Modified with Conjugated Terthienyl/Terthiophene Structures: Additives to Enhance the Performance of Dye-Sensitized Solar Cells. <i>Nanomaterials</i> , <b>2017</b> , 7,	5.4	4
15	An Atom-Economical Approach to Functionalized Single-Walled Carbon Nanotubes: Reaction with Disulfides. <i>Angewandte Chemie</i> , <b>2013</b> , 125, 6608-6611	3.6	4
14	Synthesis and Spectroscopic Properties of Porphyrin Derivatives of C60. <i>Molecular Crystals and Liquid Crystals</i> , <b>2010</b> , 521, 253-264	0.5	3
13	Molecular adsorption of iminotriazine derivatives on graphene. <i>JPhys Materials</i> , <b>2020</b> , 3, 034011	4.2	3
12	Effects of Few-Layer Graphene on the Sexual Reproduction of Seed Plants: An In Vivo Study with L. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
11	Partial Reversibility of the Cytotoxic Effect Induced by Graphene-Based Materials in Skin Keratinocytes. <i>Nanomaterials</i> , <b>2020</b> , 10,	5.4	3
10	Design of Assembled Systems Based on Conjugated Polyphenylene Derivatives and Carbon Nanohorns. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 11643-51	4.8	3
9	Gold nanoparticles as analytical tools for the quantification of small quantities of triazine derivatives anchored on graphene in water dispersions. <i>RSC Advances</i> , <b>2017</b> , 7, 21982-21987	3.7	2
8	A new soft fingertip based on electroactive hydrogels <b>2019</b> ,		2
7	Triazine-Carbon Nanotubes: New Platforms for the Design of Flavin Receptors. <i>Chemistry - A European Journal</i> , <b>2016</b> , 22, 8879-88	4.8	2
6	The lipid composition of few layers graphene and graphene oxide biomolecular corona. <i>Carbon</i> , <b>2021</b> , 185, 591-591	10.4	2
5	Microwave-assisted functionalization of carbon nanohorns with oligothiophene units with SERS activity. <i>Chemical Communications</i> , <b>2020</b> , 56, 8948-8951	5.8	1

4	Eco-friendly mechanochemical synthesis of titania-graphene nanocomposites for pesticide photodegradation. <i>Separation and Purification Technology</i> , <b>2022</b> , 120638	8.3	1
3	Rapid and efficient testing of the toxicity of graphene-related materials in primary human lung cells.. <i>Scientific Reports</i> , <b>2022</b> , 12, 7664	4.9	1
2	Is airborne graphene oxide a possible hazard for the sexual reproduction of wind-pollinated plants?. <i>Science of the Total Environment</i> , <b>2022</b> , 154625	10.2	0
1	Photoluminescence and Electro-Optic Kerr Effect in Porphyrin Derivatives of C60. <i>Molecular Crystals and Liquid Crystals</i> , <b>2010</b> , 522, 191/[491]-202/[502]	0.5	