

# Renato Grillo

## List of Publications by Citations

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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.

65  
papers

4,623  
citations

27  
h-index

67  
g-index

73  
ext. papers

5,939  
ext. citations

6.2  
avg, IF

5.75  
L-index

#	Paper	IF	Citations
65	Nano based drug delivery systems: recent developments and future prospects. <i>Journal of Nanobiotechnology</i> , <b>2018</b> , 16, 71	9.4	1937
64	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. <i>Frontiers in Environmental Science</i> , <b>2016</b> , 4,	4.8	253
63	Chitosan/tripolyphosphate nanoparticles loaded with paraquat herbicide: an environmentally safer alternative for weed control. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 278, 163-71	12.8	243
62	Engineered nanoparticles and organic matter: a review of the state-of-the-art. <i>Chemosphere</i> , <b>2015</b> , 119, 608-619	8.4	230
61	Paraquat-loaded alginate/chitosan nanoparticles: preparation, characterization and soil sorption studies. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 190, 366-74	12.8	185
60	Application of poly(epsilon-caprolactone) nanoparticles containing atrazine herbicide as an alternative technique to control weeds and reduce damage to the environment. <i>Journal of Hazardous Materials</i> , <b>2014</b> , 268, 207-15	12.8	160
59	Poly(epsilon-caprolactone)nanocapsules as carrier systems for herbicides: physico-chemical characterization and genotoxicity evaluation. <i>Journal of Hazardous Materials</i> , <b>2012</b> , 231-232, 1-9	12.8	151
58	Biogenic silver nanoparticles based on trichoderma harzianum: synthesis, characterization, toxicity evaluation and biological activity. <i>Scientific Reports</i> , <b>2017</b> , 7, 44421	4.9	107
57	Controlled release system for ametryn using polymer microspheres: preparation, characterization and release kinetics in water. <i>Journal of Hazardous Materials</i> , <b>2011</b> , 186, 1645-51	12.8	95
56	Nanotechnology Applied to Bio-Encapsulation of Pesticides. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2016</b> , 16, 1231-4	1.3	91
55	Nanoencapsulation Enhances the Post-Emergence Herbicidal Activity of Atrazine against Mustard Plants. <i>PLoS ONE</i> , <b>2015</b> , 10, e0132971	3.7	91
54	Zein Nanoparticles as Eco-Friendly Carrier Systems for Botanical Repellents Aiming Sustainable Agriculture. <i>Journal of Agricultural and Food Chemistry</i> , <b>2018</b> , 66, 1330-1340	5.7	90
53	Polymeric alginate nanoparticles containing the local anesthetic bupivacaine. <i>Journal of Drug Targeting</i> , <b>2010</b> , 18, 688-99	5.4	68
52	Ecotoxicological evaluation of poly(epsilon-caprolactone) nanocapsules containing triazine herbicides. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2014</b> , 14, 4911-7	1.3	57
51	Characterization of Atrazine-Loaded Biodegradable Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Microspheres. <i>Journal of Polymers and the Environment</i> , <b>2010</b> , 18, 26-32	4.5	57
50	Chitosan nanoparticles loaded the herbicide paraquat: the influence of the aquatic humic substances on the colloidal stability and toxicity. <i>Journal of Hazardous Materials</i> , <b>2015</b> , 286, 562-72	12.8	50
49	Analysing the fate of nanopesticides in soil and the applicability of regulatory protocols using a polymer-based nanoformulation of atrazine. <i>Environmental Science and Pollution Research</i> , <b>2014</b> , 21, 11699-707	5.1	39

48	Poly( $\epsilon$ -caprolactone) nanocapsules carrying the herbicide atrazine: effect of chitosan-coating agent on physico-chemical stability and herbicide release profile. <i>International Journal of Environmental Science and Technology</i> , <b>2014</b> , 11, 1691-1700	3.3	37
47	Poly(lactide-co-glycolide) nanocapsules containing benzocaine: influence of the composition of the oily nucleus on physico-chemical properties and anesthetic activity. <i>Pharmaceutical Research</i> , <b>2011</b> , 28, 1984-94	4.5	37
46	Ecotoxicological and regulatory aspects of environmental sustainability of nanopesticides. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 404, 124148	12.8	37
45	Poly(hydroxybutyrate-co-hydroxyvalerate) microspheres loaded with atrazine herbicide: screening of conditions for preparation, physico-chemical characterization, and in vitro release studies. <i>Polymer Bulletin</i> , <b>2011</b> , 67, 479-495	2.4	36
44	Study of the interaction between hydroxymethylnitrofurazone and 2-hydroxypropyl-beta-cyclodextrin. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 47, 295-302 <sup>3.5</sup>	3.5	34
43	Benzocaine-loaded polymeric nanocapsules: study of the anesthetic activities. <i>Journal of Pharmaceutical Sciences</i> , <b>2012</b> , 101, 1157-65	3.9	32
42	Synthesis of biogenic silver nanoparticles using <i>Althaea officinalis</i> as reducing agent: evaluation of toxicity and ecotoxicity. <i>Scientific Reports</i> , <b>2018</b> , 8, 12397	4.9	31
41	Foliage adhesion and interactions with particulate delivery systems for plant nanobionics and intelligent agriculture. <i>Nano Today</i> , <b>2021</b> , 37, 101078	17.9	31
40	Evaluation of the side effects of poly( $\epsilon$ -caprolactone) nanocapsules containing atrazine toward maize plants. <i>Frontiers in Chemistry</i> , <b>2015</b> , 3, 61	5	29
39	Influence of hybrid polymeric nanoparticle/thermosensitive hydrogels systems on formulation tracking and in vitro artificial membrane permeation: A promising system for skin drug-delivery. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2019</b> , 174, 56-62	6	29
38	Sub-Micrometer Magnetic Nanocomposites: Insights into the Effect of Magnetic Nanoparticles Interactions on the Optimization of SAR and MRI Performance. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 25777-25787	9.5	27
37	Nanopart�culas de alginato como sistema de libera�o para o herbicida clomazone. <i>Quimica Nova</i> , <b>2010</b> , 33, 1868-1873	1.6	24
36	Interaction between nitroheterocyclic compounds with beta-cyclodextrins: phase solubility and HPLC studies. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , <b>2008</b> , 47, 865-9	3.5	24
35	15d-PGJ2-loaded in nanocapsules enhance the antinociceptive properties into rat temporomandibular hypernociception. <i>Life Sciences</i> , <b>2012</b> , 90, 944-9	6.8	23
34	On the safety of nanoformulations to non-target soil invertebrates in an atrazine case study. <i>Environmental Science: Nano</i> , <b>2019</b> , 6, 1950-1958	7.1	18
33	Desenvolvimento e caracteriza�o de nanoc�psulas de poli (L-lact�deo) contendo benzoca�na. <i>Quimica Nova</i> , <b>2010</b> , 33, 65-69	1.6	17
32	Heightening Awareness for Graduate Students of the Potential Impacts of Nanomaterials on Human Health and the Environment Using a Theoretical/Practical Approach. <i>Journal of Chemical Education</i> , <b>2017</b> , 94, 1471-1479	2.4	16
31	Hydroxymethylnitrofurazone:dimethyl-beta-cyclodextrin inclusion complex: a physical-chemistry characterization. <i>Journal of Biological Physics</i> , <b>2007</b> , 33, 445-53	1.6	16

30	Cyclodextrin inclusion complexes loaded in particles as drug carrier systems. <i>Current Topics in Medicinal Chemistry</i> , <b>2014</b> , 14, 518-25	3	16
29	Effect of a nanostructured dendrimer-naloxonazine complex on endogenous opioid peptides $\mu$ receptor-mediated post-ictal antinociception. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2011</b> , 7, 871-80	6	15
28	Nanoformulations can significantly affect pesticide degradation and uptake by earthworms and plants. <i>Environmental Chemistry</i> , <b>2019</b> , 16, 470	3.2	14
27	Caracterizaço fsico-qumica de complexo de incluso entre hidroximetilnitrofurazona e hidroxipropil-beta-ciclodextrina. <i>Quimica Nova</i> , <b>2008</b> , 31, 290-295	1.6	14
26	In vitro and in vivo impact assessment of eco-designed CuO nanoparticles on non-target aquatic photoautotrophic organisms. <i>Journal of Hazardous Materials</i> , <b>2020</b> , 396, 122484	12.8	14
25	Physiological mechanisms and phytoremediation potential of the macrophyte <i>Salvinia biloba</i> towards a commercial formulation and an analytical standard of glyphosate. <i>Chemosphere</i> , <b>2020</b> , 259, 127417	8.4	13
24	Screening of formulation variables for the preparation of poly(epsilon-caprolactone) nanocapsules containing the local anesthetic benzocaine. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2011</b> , 11, 2450-7	1.3	13
23	Sericin based nanoformulations: a comprehensive review on molecular mechanisms of interaction with organisms to biological applications. <i>Journal of Nanobiotechnology</i> , <b>2021</b> , 19, 30	9.4	13
22	Do the joint effects of size, shape and ecocorona influence the attachment and physical eco(cyto)toxicity of nanoparticles to algae?. <i>Nanotoxicology</i> , <b>2020</b> , 14, 310-325	5.3	11
21	A study on the molecular existing interactions in nanoherbicides: A chitooligosaccharide/tripolyphosphate loaded with paraquat case. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2019</b> , 562, 220-228	5.1	11
20	Biogenic Fe <sub>2</sub> O <sub>3</sub> Nanoparticles Enhance the Biological Activity of <i>Trichoderma</i> against the Plant Pathogen <i>Sclerotinia sclerotiorum</i> . <i>ACS Sustainable Chemistry and Engineering</i> , <b>2021</b> , 9, 1669-1683	8.3	10
19	How does aquatic macrophyte <i>Salvinia auriculata</i> respond to nanoceria upon an increased CO <sub>2</sub> source? A Fourier transform-infrared photoacoustic spectroscopy and chlorophyll a fluorescence study. <i>Ecotoxicology and Environmental Safety</i> , <b>2019</b> , 180, 526-534	7	7
18	Bupivacaine in alginate and chitosan nanoparticles: an in vivo evaluation of efficacy, pharmacokinetics, and local toxicity. <i>Journal of Pain Research</i> , <b>2018</b> , 11, 683-691	2.9	6
17	Fabrication and Characterization of a Novel Herbicide Delivery System with Magnetic Collectability and Its Phytotoxic Effect on Photosystem II of Aquatic Macrophyte. <i>Journal of Agricultural and Food Chemistry</i> , <b>2020</b> , 68, 11105-11113	5.7	6
16	Chitosan/tripolyphosphate nanoformulation carrying paraquat: insights on its enhanced herbicidal activity. <i>Environmental Science: Nano</i> , <b>2021</b> , 8, 1336-1351	7.1	6
15	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants.. <i>Environmental Pollution</i> , <b>2022</b> , 118887	9.3	5
14	Interaction mechanism of plant-based nanoarchitected materials with digestive enzymes of termites as target for pest control: Evidence from molecular docking simulation and in vitro studies. <i>Journal of Hazardous Materials</i> , <b>2021</b> , 403, 123840	12.8	5
13	Recent Advances on Lignocellulosic-Based Nanopesticides for Agricultural Applications. <i>Frontiers in Nanotechnology</i> , <b>2021</b> , 3,	5.5	5

12	Analysis of the effects of pesticides and nanopesticides on the environment. <i>BMC Proceedings</i> , <b>2014</b> , 8,	2.3	4
11	Understanding the Interaction of Nanopesticides with Plants <b>2020</b> , 69-109		4
10	Interaction between a nano-formulation of atrazine and rhizosphere bacterial communities: atrazine degradation and bacterial community alterations. <i>Environmental Science: Nano</i> , <b>2020</b> , 7, 3372-3384	7.1	4
9	Host-guest complexation of a nitroheterocyclic compound with cyclodextrins: a spectrofluorimetric and molecular modeling study. <i>Journal of Inclusion Phenomena and Macrocyclic Chemistry</i> , <b>2010</b> , 66, 417-421		3
8	CeO nanostructured electrochemical sensor for the simultaneous recognition of diethylstilbestrol and 17 $\beta$ -estradiol hormones. <i>Science of the Total Environment</i> , <b>2022</b> , 805, 150348	10.2	3
7	Nano-priming: the impression on the hidden half. <i>Plant Stress</i> , <b>2022</b> , 100091		2
6	Ecological aspects of aquatic macrophytes for environmental pollution control: An eco-remedial approach <b>2022</b> , 497-523		1
5	The Differences between the Effects of a Nanoformulation and a Conventional Form of Atrazine to Lettuce: Physiological Responses, Defense Mechanisms, and Nutrient Displacement. <i>Journal of Agricultural and Food Chemistry</i> , <b>2021</b> , 69, 12527-12540	5.7	1
4	High-throughput transcriptomics reveals mechanisms of nanopesticides [nanoformulation, commercial, active ingredient] finding safe and sustainable-by-design (SSbD) options for the environment. <i>Environmental Science: Nano</i> ,	7.1	1
3	Recent advances on nanohybrid systems constituting clay-chitosan with organic molecules [A review. <i>Applied Clay Science</i> , <b>2022</b> , 226, 106548	5.2	1
2	Silicon nano forms in crop improvement and stress management. <i>Chemosphere</i> , <b>2022</b> , 135165	8.4	1
1	Is centrifugal ultrafiltration a robust method for determining encapsulation efficiency of pesticide nanoformulations?. <i>Nanoscale</i> , <b>2021</b> , 13, 5410-5418	7.7	0