Renato Grillo

List of Publications by Year in Descending Order

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	Nanoparticles as a potential protective agent for arsenic toxicity alleviation in plants.. *Environmental Pollution*, **2022**, 118887	9.3	5
64	Ecological aspects of aquatic macrophytes for environmental pollution control: An eco-remedial approach **2022**, 497-523		1
63	CeO nanostructured electrochemical sensor for the simultaneous recognition of diethylstilbestrol and 17□estradiol hormones. *Science of the Total Environment*, **2022**, 805, 150348	10.2	3
62	Nano-priming: the impression on the hidden half. *Plant Stress*, **2022**, 100091		2
61	Recent advances on nanohybrid systems constituting clay□chitosan with organic molecules □A review. *Applied Clay Science*, **2022**, 226, 106548	5.2	1
60	Silicon nano forms in crop improvement and stress management. *Chemosphere*, **2022**, 135165	8.4	1
59	The Differences between the Effects of a Nanoformulation and a Conventional Form of Atrazine to Lettuce: Physiological Responses, Defense Mechanisms, and Nutrient Displacement. *Journal of Agricultural and Food Chemistry*, **2021**, 69, 12527-12540	5.7	1
58	Foliage adhesion and interactions with particulate delivery systems for plant nanobionics and intelligent agriculture. *Nano Today*, **2021**, 37, 101078	17.9	31
57	Ecotoxicological and regulatory aspects of environmental sustainability of nanopesticides. *Journal of Hazardous Materials*, **2021**, 404, 124148	12.8	37
56	Interaction mechanism of plant-based nanoarchitectured materials with digestive enzymes of termites as target for pest control: Evidence from molecular docking simulation and in vitro studies. *Journal of Hazardous Materials*, **2021**, 403, 123840	12.8	5
55	Biogenic □Fe2O3 Nanoparticles Enhance the Biological Activity of Trichoderma against the Plant Pathogen Sclerotinia sclerotiorum. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 1669-1683	8.3	10
54	Sericin based nanoformulations: a comprehensive review on molecular mechanisms of interaction with organisms to biological applications. *Journal of Nanobiotechnology*, **2021**, 19, 30	9.4	13
53	Is centrifugal ultrafiltration a robust method for determining encapsulation efficiency of pesticide nanoformulations?. *Nanoscale*, **2021**, 13, 5410-5418	7.7	0
52	Chitosan/tripolyphosphate nanoformulation carrying paraquat: insights on its enhanced herbicidal activity. *Environmental Science: Nano*, **2021**, 8, 1336-1351	7.1	6
51	Recent Advances on Lignocellulosic-Based Nanopesticides for Agricultural Applications. *Frontiers in Nanotechnology*, **2021**, 3,	5.5	5
50	Physiological mechanisms and phytoremediation potential of the macrophyte Salvinia biloba towards a commercial formulation and an analytical standard of glyphosate. *Chemosphere*, **2020**, 259, 127417	8.4	13
49	Understanding the Interaction of Nanopesticides with Plants **2020**, 69-109		4

48	Do the joint effects of size, shape and ecocorona influence the attachment and physical eco(cyto)toxicity of nanoparticles to algae?. *Nanotoxicology*, **2020**, 14, 310-325	5.3	11
47	Interaction between a nano-formulation of atrazine and rhizosphere bacterial communities: atrazine degradation and bacterial community alterations. *Environmental Science: Nano*, **2020**, 7, 3372-3384	7.1	4
46	Fabrication and Characterization of a Novel Herbicide Delivery System with Magnetic Collectability and Its Phytotoxic Effect on Photosystem II of Aquatic Macrophyte. *Journal of Agricultural and Food Chemistry*, **2020**, 68, 11105-11113	5.7	6
45	In vitro and in vivo impact assessment of eco-designed CuO nanoparticles on non-target aquatic photoautotrophic organisms. *Journal of Hazardous Materials*, **2020**, 396, 122484	12.8	14
44	Nanoformulations can significantly affect pesticide degradation and uptake by earthworms and plants. *Environmental Chemistry*, **2019**, 16, 470	3.2	14
43	On the safety of nanoformulations to non-target soil invertebrates an atrazine case study. *Environmental Science: Nano*, **2019**, 6, 1950-1958	7.1	18
42	How does aquatic macrophyte Salvinia auriculata respond to nanoceria upon an increased CO source? A Fourier transform-infrared photoacoustic spectroscopy and chlorophyll a fluorescence study. *Ecotoxicology and Environmental Safety*, **2019**, 180, 526-534	7	7
41	A study on the molecular existing interactions in nanoherbicides: A chitooligosaccharide/tripolyphosphate loaded with paraquat case. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2019**, 562, 220-228	5.1	11
40	Influence of hybrid polymeric nanoparticle/thermosensitive hydrogels systems on formulation tracking and in vitro artificial membrane permeation: A promising system for skin drug-delivery. *Colloids and Surfaces B: Biointerfaces*, **2019**, 174, 56-62	6	29
39	Zein Nanoparticles as Eco-Friendly Carrier Systems for Botanical Repellents Aiming Sustainable Agriculture. *Journal of Agricultural and Food Chemistry*, **2018**, 66, 1330-1340	5.7	90
38	Bupivacaine in alginate and chitosan nanoparticles: an in vivo evaluation of efficacy, pharmacokinetics, and local toxicity. *Journal of Pain Research*, **2018**, 11, 683-691	2.9	6
37	Synthesis of biogenic silver nanoparticles using Althaea officinalis as reducing agent: evaluation of toxicity and ecotoxicity. *Scientific Reports*, **2018**, 8, 12397	4.9	31
36	Nano based drug delivery systems: recent developments and future prospects. *Journal of Nanobiotechnology*, **2018**, 16, 71	9.4	1937
35	Biogenic silver nanoparticles based on trichoderma harzianum: synthesis, characterization, toxicity evaluation and biological activity. *Scientific Reports*, **2017**, 7, 44421	4.9	107
34	Heightening Awareness for Graduate Students of the Potential Impacts of Nanomaterials on Human Health and the Environment Using a TheoreticalPractical Approach. *Journal of Chemical Education*, **2017**, 94, 1471-1479	2.4	16
33	Nanotechnology Applied to Bio-Encapsulation of Pesticides. *Journal of Nanoscience and Nanotechnology*, **2016**, 16, 1231-4	1.3	91
32	Nanotechnology in Agriculture: Which Innovation Potential Does It Have?. *Frontiers in Environmental Science*, **2016**, 4,	4.8	253
31	Sub-Micrometer Magnetic Nanocomposites: Insights into the Effect of Magnetic Nanoparticles Interactions on the Optimization of SAR and MRI Performance. *ACS Applied Materials & Interfaces*, **2016**, 8, 25777-25787	9.5	27

30	Engineered nanoparticles and organic matter: a review of the state-of-the-art. *Chemosphere*, **2015**, 119, 608-619	8.4	230
29	Evaluation of the side effects of poly(epsilon-caprolactone) nanocapsules containing atrazine toward maize plants. *Frontiers in Chemistry*, **2015**, 3, 61	5	29
28	Nanoencapsulation Enhances the Post-Emergence Herbicidal Activity of Atrazine against Mustard Plants. *PLoS ONE*, **2015**, 10, e0132971	3.7	91
27	Chitosan nanoparticles loaded the herbicide paraquat: the influence of the aquatic humic substances on the colloidal stability and toxicity. *Journal of Hazardous Materials*, **2015**, 286, 562-72	12.8	50
26	Analysing the fate of nanopesticides in soil and the applicability of regulatory protocols using a polymer-based nanoformulation of atrazine. *Environmental Science and Pollution Research*, **2014**, 21, 11699-707	5.1	39
25	Chitosan/tripolyphosphate nanoparticles loaded with paraquat herbicide: an environmentally safer alternative for weed control. *Journal of Hazardous Materials*, **2014**, 278, 163-71	12.8	243
24	Poly(ε-caprolactone) nanocapsules carrying the herbicide atrazine: effect of chitosan-coating agent on physico-chemical stability and herbicide release profile. *International Journal of Environmental Science and Technology*, **2014**, 11, 1691-1700	3.3	37
23	Ecotoxicological evaluation of poly(epsilon-caprolactone) nanocapsules containing triazine herbicides. *Journal of Nanoscience and Nanotechnology*, **2014**, 14, 4911-7	1.3	57
22	Analysis of the effects of pesticides and nanopesticides on the environment. *BMC Proceedings*, **2014**, 8,	2.3	4
21	Application of poly(epsilon-caprolactone) nanoparticles containing atrazine herbicide as an alternative technique to control weeds and reduce damage to the environment. *Journal of Hazardous Materials*, **2014**, 268, 207-15	12.8	160
20	Cyclodextrin inclusion complexes loaded in particles as drug carrier systems. *Current Topics in Medicinal Chemistry*, **2014**, 14, 518-25	3	16
19	Benzocaine-loaded polymeric nanocapsules: study of the anesthetic activities. *Journal of Pharmaceutical Sciences*, **2012**, 101, 1157-65	3.9	32
18	Poly(ε-caprolactone)nanocapsules as carrier systems for herbicides: physico-chemical characterization and genotoxicity evaluation. *Journal of Hazardous Materials*, **2012**, 231-232, 1-9	12.8	151
17	15d-PGJ2-loaded in nanocapsules enhance the antinociceptive properties into rat temporomandibular hypernociception. *Life Sciences*, **2012**, 90, 944-9	6.8	23
16	Effect of a nanostructured dendrimer-naloxonazine complex on endogenous opioid peptides δ receptor-mediated post-ictal antinociception. *Nanomedicine: Nanotechnology, Biology, and Medicine* , **2011**, 7, 871-80	6	15
15	Poly(lactide-co-glycolide) nanocapsules containing benzocaine: influence of the composition of the oily nucleus on physico-chemical properties and anesthetic activity. *Pharmaceutical Research*, **2011**, 28, 1984-94	4.5	37
14	Poly(hydroxybutyrate-co-hydroxyvalerate) microspheres loaded with atrazine herbicide: screening of conditions for preparation, physico-chemical characterization, and in vitro release studies. *Polymer Bulletin*, **2011**, 67, 479-495	2.4	36
13	Controlled release system for ametryn using polymer microspheres: preparation, characterization and release kinetics in water. *Journal of Hazardous Materials*, **2011**, 186, 1645-51	12.8	95

12	Paraquat-loaded alginate/chitosan nanoparticles: preparation, characterization and soil sorption studies. *Journal of Hazardous Materials*, **2011**, 190, 366-74	12.8	185
11	Screening of formulation variables for the preparation of poly(epsilon-caprolactone) nanocapsules containing the local anesthetic benzocaine. *Journal of Nanoscience and Nanotechnology*, **2011**, 11, 2450-7	1.3	13
10	Nanopartículas de alginato como sistema de liberação para o herbicida clomazone. *Quimica Nova*, **2010**, 33, 1868-1873	1.6	24
9	Desenvolvimento e caracterização de nanocápsulas de poli (L-lactídeo) contendo benzocaína. *Quimica Nova*, **2010**, 33, 65-69	1.6	17
8	Polymeric alginate nanoparticles containing the local anesthetic bupivacaine. *Journal of Drug Targeting*, **2010**, 18, 688-99	5.4	68
7	Characterization of Atrazine-Loaded Biodegradable Poly(Hydroxybutyrate-Co-Hydroxyvalerate) Microspheres. *Journal of Polymers and the Environment*, **2010**, 18, 26-32	4.5	57
6	Host–guest complexation of a nitroheterocyclic compound with cyclodextrins: a spectrofluorimetric and molecular modeling study. *Journal of Inclusion Phenomena and Macrocyclic Chemistry*, **2010**, 66, 417-421		3
5	Caracterização físico-química de complexo de inclusão entre hidroximetilnitrofurazona e hidroxipropil-beta-ciclodextrina. *Quimica Nova*, **2008**, 31, 290-295	1.6	14
4	Study of the interaction between hydroxymethylnitrofurazone and 2-hydroxypropyl-beta-cyclodextrin. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 47, 295-302	3.5	34
3	Interaction between nitroheterocyclic compounds with beta-cyclodextrins: phase solubility and HPLC studies. *Journal of Pharmaceutical and Biomedical Analysis*, **2008**, 47, 865-9	3.5	24
2	Hydroxymethylnitrofurazone:dimethyl-beta-cyclodextrin inclusion complex: a physical-chemistry characterization. *Journal of Biological Physics*, **2007**, 33, 445-53	1.6	16
1	High-throughput transcriptomics reveals mechanisms of nanopesticides (nanoformulation, commercial, active ingredient) finding safe and sustainable-by-design (SSbD) options for the environment. *Environmental Science: Nano*,	7.1	1