

Carlos E Astete

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,848
citations

393982

19
h-index

264894

42
g-index

54
all docs

54
docs citations

54
times ranked

2982
citing authors

#	ARTICLE	IF	CITATIONS
1	Lignin nanoparticles as delivery systems to facilitate translocation of methoxyfenozide in soybean (Glycine max). Journal of Agriculture and Food Research, 2022, 7, 100259.	1.2	10
2	Zein and lignin-based nanoparticles as soybean seed treatment: translocation and impact on seed and plant health. Applied Nanoscience (Switzerland), 2022, 12, 1557-1569.	1.6	13
3	Fate of Biodegradable Engineered Nanoparticles Used in Veterinary Medicine as Delivery Systems from a One Health Perspective. Molecules, 2021, 26, 523.	1.7	14
4	Stability and ocular biodistribution of topically administered PLGA nanoparticles. Scientific Reports, 2021, 11, 12270.	1.6	14
5	Effects of engineered lignin-graft-PLGA and zein-based nanoparticles on soybean health. NanolImpact, 2021, 23, 100329.	2.4	9
6	Prevention of infection caused by enteropathogenic E. coli O157:H7 in intestinal cells using enrofloxacin entrapped in polymer based nanocarriers. Journal of Hazardous Materials, 2021, 414, 125454.	6.5	13
7	Asymmetric flow field-flow fractionation (AF4) with fluorescence and multi-detector analysis for direct, real-time, size-resolved measurements of drug release from polymeric nanoparticles. Journal of Controlled Release, 2021, 338, 410-421.	4.8	9
8	Emerging investigator series: polymeric nanocarriers for agricultural applications: synthesis, characterization, and environmental and biological interactions. Environmental Science: Nano, 2020, 7, 37-67.	2.2	68
9	Elucidating Efficacy of Ingested Positively Charged Zein Nanoparticles Against Noctuidae. Journal of Economic Entomology, 2020, 113, 2739-2744.	0.8	5
10	Lignin-graft-PLGA drug-delivery system improves efficacy of MEK1/2 inhibitors in triple-negative breast cancer cell line. Nanomedicine, 2020, 15, 981-1000.	1.7	19
11	Lignin-Graft-Poly(lactic-co-glycolic) Acid Biopolymers for Polymeric Nanoparticle Synthesis. ACS Omega, 2020, 5, 9892-9902.	1.6	20
12	Nanoentrapped polyphenol coating for sustained drug release from a balloon catheter. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 646-651.	1.6	12
13	Modulating Mechanical Properties of Collagen-Lignin Composites. ACS Applied Bio Materials, 2019, 2, 3562-3572.	2.3	15
14	Enrofloxacin-Impregnated PLGA Nanocarriers for Efficient Therapeutics and Diminished Generation of Reactive Oxygen Species. ACS Applied Nano Materials, 2019, 2, 5035-5043.	2.4	16
15	Sulfur contaminations inhibit depolymerization of Kraft lignin. Bioresource Technology Reports, 2019, 8, 100341.	1.5	12
16	Topical nanodelivery system of lutein for the prevention of selenite-induced cataract. Nanomedicine: Nanotechnology, Biology, and Medicine, 2019, 15, 188-197.	1.7	21
17	Abstract A105: Novel lignin-conjugated PLGA drug delivery system improves efficacy of MEK1/2 inhibitor in triple negative breast cancer. , 2019, , .		0
18	Zein Nanoparticles Uptake and Translocation in Hydroponically Grown Sugar Cane Plants. Journal of Agricultural and Food Chemistry, 2018, 66, 6544-6551.	2.4	56

#	ARTICLE	IF	CITATIONS
19	Perspectives in the design of zein-based polymeric delivery systems with programmed wear down for sustainable agricultural applications. <i>Polymer Degradation and Stability</i> , 2018, 155, 130-135.	2.7	19
20	Biodistribution of orally administered poly(lactic-co-glycolic) acid nanoparticles for 7 days followed by 21 day recovery in F344 rats. <i>NanoImpact</i> , 2017, 5, 1-5.	2.4	4
21	Entrapment and delivery of α -tocopherol by a self-assembled, alginate-conjugated prodrug nanostructure. <i>Food Hydrocolloids</i> , 2017, 72, 62-72.	5.6	24
22	Zein Nanoparticles Uptake by Hydroponically Grown Soybean Plants. <i>Environmental Science & Technology</i> , 2017, 51, 14065-14071.	4.6	28
23	Investigation on hemolytic effect of poly(lactic co-glycolic) acid nanoparticles synthesized using continuous flow and batch processes. <i>Nanotechnology Reviews</i> , 2017, 6, 209-220.	2.6	15
24	Influence of Nano-Spray Dried Sodium Chloride on the Physicochemical Characteristics of Surface-Salted Cheese Crackers. <i>Food and Nutrition Sciences (Print)</i> , 2017, 08, 267-276.	0.2	2
25	Biodistribution and toxicity of orally administered poly (lactic-co-glycolic) acid nanoparticles to F344 rats for 21 days. <i>Nanomedicine</i> , 2016, 11, 1653-1669.	1.7	27
26	Semi-Volatile Organic Compounds as Chemical Tracers for Estimating Soil Particle Biodiffusion Coefficients. <i>Soil Science</i> , 2016, 181, 457-464.	0.9	2
27	Oil extraction from sheanut (<i>Vitellaria paradoxa</i> Gaertn C.F.) kernels assisted by microwaves. <i>Journal of Food Science and Technology</i> , 2016, 53, 1424-1434.	1.4	15
28	Bioavailability and biodistribution of nanodelivered lutein. <i>Food Chemistry</i> , 2016, 192, 915-923.	4.2	57
29	ESolvent-free, enzyme-catalyzed biodiesel production from mango, neem, and shea oils via response surface methodology. <i>AMB Express</i> , 2015, 5, 83.	1.4	3
30	Cytotoxicity and intracellular fate of PLGA and chitosan-coated PLGA nanoparticles in Madinâ€‘Darby bovine kidney (MDBK) and human colorectal adenocarcinoma (Colo 205) cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 3599-3611.	2.1	33
31	Bioturbation-Driven Particle Transport in Surface Soil. <i>Soil Science</i> , 2015, 180, 2-9.	0.9	6
32	Cellular uptake, antioxidant and antiproliferative activity of entrapped α -tocopherol and β -tocotrienol in poly (lactic-co-glycolic) acid (PLGA) and chitosan covered PLGA nanoparticles (PLGA-Chi). <i>Journal of Colloid and Interface Science</i> , 2015, 445, 243-251.	5.0	63
33	Nano spray-dried sodium chloride and its effects on the microbiological and sensory characteristics of surface-salted cheese crackers. <i>Journal of Dairy Science</i> , 2015, 98, 5946-5954.	1.4	53
34	Optimization of microwave assisted extraction parameters of neem (<i>Azadirachta indica</i> A. Juss) oil using the Doehlertâ€™s experimental design. <i>Industrial Crops and Products</i> , 2015, 65, 233-240.	2.5	43
35	Surface association and uptake of poly(lactic-co-glycolic) acid nanoparticles by <i>Aspergillus flavus</i> . <i>Therapeutic Delivery</i> , 2014, 5, 1179-1190.	1.2	3
36	Biodistribution of PLGA and PLGA/chitosan nanoparticles after repeat-dose oral delivery in F344 rats for 7 days. <i>Therapeutic Delivery</i> , 2014, 5, 1191-1201.	1.2	24

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37	Synthesis of Vitamin E-Carnosine (VECAR): New Antioxidant Molecule with Potential Application in Atherosclerosis. <i>Synthetic Communications</i> , 2013, 43, 1299-1313.	1.1	8
38	Chitosan/PLGA particles for controlled release of α -tocopherol in the GI tract via oral administration. <i>Nanomedicine</i> , 2011, 6, 1513-1528.	1.7	43
39	Antioxidant Poly(lactic-co-glycolic) Acid Nanoparticles Made with α -Tocopherol-Ascorbic Acid Surfactant. <i>ACS Nano</i> , 2011, 5, 9313-9325.	7.3	63
40	Effects of Temperature and UV Light on Degradation of α -Tocopherol in Free and Dissolved Form. <i>JAOCs, Journal of the American Oil Chemists' Society</i> , 2009, 86, 895.	0.8	105
41	Ca ²⁺ Cross-Linked Alginate Nanoparticles for Solubilization of Lipophilic Natural Colorants. <i>Journal of Agricultural and Food Chemistry</i> , 2009, 57, 7505-7512.	2.4	58
42	Nanoparticles with entrapped α -tocopherol: synthesis, characterization, and controlled release. <i>Nanotechnology</i> , 2008, 19, 105606.	1.3	110
43	Encapsulation and controlled release of antioxidants and vitamins. , 2008, , 297-330.		13
44	Size control of poly(d,l-lactide-co-glycolide) and poly(d,l-lactide-co-glycolide)-magnetite nanoparticles synthesized by emulsion evaporation technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 299, 209-216.	2.3	58
45	Synthesis and characterization of PLGA nanoparticles. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006, 17, 247-289.	1.9	606
46	Synthesis of Poly(DL-Lactide-Co-Glycolide) Nanoparticles with Entrapped Magnetite by Emulsion Evaporation Method. <i>Particulate Science and Technology</i> , 2006, 24, 321-328.	1.1	20
47	Life History of <i>Chrysodeixis includens</i> (Lepidoptera: Noctuidae) on Positively Charged Zein Nanoparticles. <i>Environmental Entomology</i> , 0, , .	0.7	4