

# Encarna Garcia\_Montoya

## List of Publications by Year in descending order

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55  
papers

1,443  
citations

304743

22  
h-index

345221

36  
g-index

55  
all docs

55  
docs citations

55  
times ranked

1656  
citing authors

#	ARTICLE	IF	CITATIONS
1	Formulation of Direct Compression Zidovudine Tablets to Correlate the SeDeM Diagram Expert System and the Rotary Press Simulator Styl <sup>®</sup> ONE Results. <i>AAPS PharmSciTech</i> , 2020, 21, 1.	3.3	123
2	Coenzyme Q10 supplementation: Efficacy, safety, and formulation challenges. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020, 19, 574-594.	11.7	94
3	A new expert systems (SeDeM Diagram) for control batch powder formulation and preformulation drug products. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2006, 64, 351-359.	4.3	80
4	Impact of physical parameters on particle size and reaction yield when using the ionic gelation method to obtain cationic polymeric chitosan <sup>®</sup> -tripolyphosphate nanoparticles. <i>International Journal of Pharmaceutics</i> , 2013, 446, 199-204.	5.2	80
5	Quality by Design approach to understand the physicochemical phenomena involved in controlled release of captopril SR matrix tablets. <i>International Journal of Pharmaceutics</i> , 2014, 477, 431-441.	5.2	61
6	Trends in the food and sports nutrition industry: A review. <i>Critical Reviews in Food Science and Nutrition</i> , 2020, 60, 2405-2421.	10.3	60
7	Application of the SeDeM Diagram and a new mathematical equation in the design of direct compression tablet formulation. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2008, 69, 1029-1039.	4.3	57
8	The use of the SeDeM Diagram expert system to determine the suitability of diluents <sup>®</sup> -disintegrants for direct compression and their use in formulation of ODT. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2009, 73, 414-423.	4.3	56
9	Predicting orally disintegrating tablets formulations of ibuprofen tablets: An application of the new SeDeM-ODT expert system. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2012, 80, 638-648.	4.3	55
10	Excipients in the Paediatric Population: A Review. <i>Pharmaceutics</i> , 2021, 13, 387.	4.5	51
11	An overview of microencapsulation in the food industry: opportunities, challenges, and innovations. <i>European Food Research and Technology</i> , 2020, 246, 1371-1382.	3.3	49
12	DNA delivery via cationic solid lipid nanoparticles (SLNs). <i>European Journal of Pharmaceutical Sciences</i> , 2013, 49, 157-165.	4.0	43
13	New classification of directly compressible (DC) excipients in function of the SeDeM Diagram Expert System. <i>International Journal of Pharmaceutics</i> , 2014, 470, 15-27.	5.2	40
14	A new validated method for the simultaneous determination of benzocaine, propylparaben and benzyl alcohol in a bioadhesive gel by HPLC. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2005, 39, 920-927.	2.8	38
15	Development and validation of a new HPLC analytical method for the determination of alprazolam in tablets. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2004, 34, 979-987.	2.8	35
16	SeDeM expert system a new innovator tool to develop pharmaceutical forms. <i>Drug Development and Industrial Pharmacy</i> , 2014, 40, 222-236.	2.0	34
17	Relationships between surface free energy, surface texture parameters and controlled drug release in hydrophilic matrices. <i>International Journal of Pharmaceutics</i> , 2015, 478, 328-340.	5.2	34
18	Optimization of parameters of the SeDeM Diagram Expert System: Hausner index (IH) and relative humidity (%RH). <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2011, 79, 464-472.	4.3	33

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19	A new optimized formulation of cationic solid lipid nanoparticles intended for gene delivery: Development, characterization and DNA binding efficiency of TCERG1 expression plasmid. <i>International Journal of Pharmaceutics</i> , 2014, 473, 270-279.	5.2	31
20	Chitosan nanoparticles as non-viral gene delivery systems: Determination of loading efficiency. <i>Biomedicine and Pharmacotherapy</i> , 2014, 68, 775-783.	5.6	31
21	The use of the SeDeM diagram expert system for the formulation of Captopril SR matrix tablets by direct compression. <i>International Journal of Pharmaceutics</i> , 2014, 461, 38-45.	5.2	29
22	Modification of the morphology and particle size of pharmaceutical excipients by spray drying technique. <i>Powder Technology</i> , 2015, 270, 244-255.	4.2	29
23	Development and validation of a new RP-HPLC method for the simultaneous determination of hydroquinone, kojic acid, octinoxate, avobenzone, BHA and BHT in skin-whitening cream. <i>Analytical Methods</i> , 2016, 8, 1170-1180.	2.7	21
24	Cholesteryl oleate-loaded cationic solid lipid nanoparticles as carriers for efficient gene-silencing therapy. <i>International Journal of Nanomedicine</i> , 2018, Volume 13, 3223-3233.	6.7	20
25	Comparison between Microcrystalline Celluloses of different grades made by four manufacturers using the SeDeM diagram expert system as a pharmaceutical characterization tool. <i>Powder Technology</i> , 2019, 342, 780-788.	4.2	20
26	Characterization of alginate beads loaded with ibuprofen lysine salt and optimization of the preparation method. <i>International Journal of Pharmaceutics</i> , 2014, 460, 181-188.	5.2	18
27	Formulation of Sustained Release Hydrophilic Matrix Tablets of Tolcapone with the Application of Sedem Diagram: Influence of Tolcapone's Particle Size on Sustained Release. <i>Pharmaceutics</i> , 2020, 12, 674.	4.5	17
28	Improved formulation of cationic solid lipid nanoparticles displays cellular uptake and biological activity of nucleic acids. <i>International Journal of Pharmaceutics</i> , 2017, 516, 39-44.	5.2	16
29	Application of an Experimental Design for the Optimization and Validation of a New HPLC Method for the Determination of Vancomycin in an Extemporaneous Ophthalmic Solution. <i>Journal of Chromatographic Science</i> , 2008, 46, 828-834.	1.4	15
30	Therapeutic potential of nicotinamide adenine dinucleotide (NAD). <i>European Journal of Pharmacology</i> , 2020, 879, 173158.	3.5	15
31	Stability evaluation of amoxicillin in a solid premix veterinary formulation by monitoring the degradation products through a new HPLC analytical method. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2006, 42, 192-199.	2.8	14
32	Optimization of the Cohesion Index in the SeDeM Diagram Expert System and application of SeDeM Diagram: An improved methodology to determine the Cohesion Index. <i>PLoS ONE</i> , 2018, 13, e0203846.	2.5	12
33	Quality assurance in research: incorporating ISO9001:2000 into a GMP quality management system in a pharmaceutical R+D+I center. <i>Accreditation and Quality Assurance</i> , 2010, 15, 297-304.	0.8	11
34	Development and validation of a simple high-performance liquid chromatography analytical method for simultaneous determination of phytosterols, cholesterol and squalene in parenteral lipid emulsions. <i>Biomedical Chromatography</i> , 2018, 32, e4084.	1.7	11
35	SeDeM Diagram: an expert system for preformation, characterization and optimization of tablets obtained by direct compression. , 2013, , 109-135.		10
36	Preformulation and characterization of a lidocaine hydrochloride and dexamethasone sodium phosphate thermo-reversible and bioadhesive long-acting gel for intraperitoneal administration. <i>International Journal of Pharmaceutics</i> , 2016, 498, 142-152.	5.2	10

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37	The role of SeDeM for characterizing the active substance and polyvinylpyrrolidone eliminating metastable forms in an oral lyophilizate. A preformulation study. PLoS ONE, 2018, 13, e0196049.	2.5	10
38	Optimization and Validation of a Fast UPLC Method for Simultaneous Determination of Hydroquinone, Kojic Acid, Octinoxate, Avobenzone, BHA, and BHT. Journal of AOAC INTERNATIONAL, 2017, 100, 1-7.	1.5	10
39	Formulation and characterization of mucoadhesive controlled release matrix tablets of captopril. Journal of Drug Delivery Science and Technology, 2017, 42, 215-226.	3.0	9
40	Osmolality predictive models of different polymers as tools in parenteral and ophthalmic formulation development. International Journal of Pharmaceutics, 2018, 543, 190-200.	5.2	7
41	Improved synthesis and characterization of cholesteryl oleate-loaded cationic solid lipid nanoparticles with high transfection efficiency for gene therapy applications. Colloids and Surfaces B: Biointerfaces, 2019, 180, 159-167.	5.0	7
42	New SeDeM-ODT expert system: an expert system for formulation of orodispersible tablets obtained by direct compression. , 2013, , 137-154.		6
43	Approach to design space from retrospective quality data. Pharmaceutical Development and Technology, 2016, 21, 26-38.	2.4	6
44	Study of Formulation Parameters by Factorial Design in Metoprolol Tartrate Matrix Systems. Drug Development and Industrial Pharmacy, 2001, 27, 965-973.	2.0	5
45	Development and Validation of a Stability Indicating RP-HPLC Method for Hydrocortisone Acetate Active Ingredient, Propyl Parahydroxybenzoate and Methyl Parahydroxybenzoate Preservatives, Butylhydroxyanisole Antioxidant, and Their Degradation Products in a Rectal Gel Formulation. Journal of AOAC INTERNATIONAL, 2015, 98, 27-34.	1.5	5
46	A new design for the review and appraisal of semi-solid dosage forms: Semi-solid Control Diagram (SSCD). PLoS ONE, 2018, 13, e0201643.	2.5	5
47	Spatiotemporal Analysis of Hydration Mechanism in Sodium Alginate Matrix Tablets. Materials, 2021, 14, 646.	2.9	5
48	Hydration Patterns in Sodium Alginate Polymeric Matrix Tablets. The Result of Drug Substance Incorporation. Materials, 2021, 14, 6531.	2.9	4
49	Improving tablet coating robustness by selecting critical process parameters from retrospective data. Pharmaceutical Development and Technology, 2015, 21, 1-10.	2.4	3
50	Method for the development of topical medicinal aerosols using liquified hydrocarbon gas. International Journal of Pharmaceutics, 2008, 355, 126-130.	5.2	2
51	Determination of stress-induced degradation products of cetirizine dihydrochloride by a stability-indicating RP-HPLC method. DARU, Journal of Pharmaceutical Sciences, 2014, 22, 82.	2.0	2
52	Development and Validation of a New High-Performance Liquid Chromatography Method for the Simultaneous Quantification of Coenzyme Q10, Phosphatidylserine, and Vitamin C from a Cutting-Edge Liposomal Vehiculization. ACS Omega, 2019, 4, 19710-19715.	3.5	2
53	Robustness Optimization of an Existing Tablet Coating Process Applying Retrospective Knowledge (rQbD) and Validation. Pharmaceutics, 2020, 12, 743.	4.5	2
54	Editing of a Job Description. Drug Development and Industrial Pharmacy, 1997, 23, 351-358.	2.0	0

#	ARTICLE	IF	CITATIONS
55	Quality and Integrity of Data in Research, Development, and Innovation: A Risk Analysis Method Applied to Laboratory Notebooks in a University Pilot Plant. PDA Journal of Pharmaceutical Science and Technology, 2011, 65, 207-216.	0.5	0