Alireza Vatanara

List of Publications by Year
in descending order

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76 papers	2,132 citations	236912 25 h-index	254170 43 g-index
79 all docs	79 docs citations	79 times ranked	2459 citing authors

#	Article	IF	Citations
1	Drying Technologies for the Stability and Bioavailability of Biopharmaceuticals. Pharmaceutics, 2018, 10, 131.	4.5	160
2	Doxorubicin and Anti-PD-L1 Antibody Conjugated Gold Nanoparticles for Colorectal Cancer Photochemotherapy. Molecular Pharmaceutics, 2019, 16, 1184-1199.	4.6	117
3	Solubility of some statin drugs in supercritical carbon dioxide and representing the solute solubility data with several density-based correlations. Journal of Supercritical Fluids, 2007, 41, 187-194.	3.2	112
4	Loading hydrophilic drug in solid lipid media as nanoparticles: Statistical modeling of entrapment efficiency and particle size. International Journal of Pharmaceutics, 2012, 424, 128-137.	5.2	108
5	Extraction and preconcentration of salbutamol and terbutaline from aqueous samples using hollow fiber supported liquid membrane containing anionic carrier. Journal of Chromatography A, 2006, 1124, 57-67.	3.7	97
6	Development and evaluation of a new semi-empirical model for correlation of drug solubility in supercritical CO2. Fluid Phase Equilibria, 2014, 363, 18-26.	2.5	74
7	Preparation of 5-fluorouracil nanoparticles by supercritical antisolvents for pulmonary delivery. International Journal of Nanomedicine, 2010, 5, 763.	6.7	63
8	Delivery of a cocktail DNA vaccine encoding cysteine proteinases type I, II and III with solid lipid nanoparticles potentiate protective immunity against Leishmania major infection. Journal of Controlled Release, 2011, 153, 154-162.	9.9	63
9	Supercritical CO2 and highly selective aromatase inhibitors: Experimental solubility and empirical data correlation. Journal of Supercritical Fluids, 2009, 50, 203-209.	3.2	57
10	The effective encapsulation of a hydrophobic lipid-insoluble drug in solid lipid nanoparticles using a modified double emulsion solvent evaporation method. Colloids and Surfaces B: Biointerfaces, 2013, 112, 408-414.	5.0	56
11	Formation of nanosuspensions in bottom-up approach: theories and optimization. DARU, Journal of Pharmaceutical Sciences, 2019, 27, 451-473.	2.0	51
12	Preparation, characterization and optimization of sildenafil citrate loaded PLGA nanoparticles by statistical factorial design. DARU, Journal of Pharmaceutical Sciences, 2013, 21, 68.	2.0	45
13	Improvement of memory deficits in the rat model of Alzheimer's disease by erythropoietin-loaded solid lipid nanoparticles. Neurobiology of Learning and Memory, 2019, 166, 107082.	1.9	45
14	The use of amino acids to prepare physically and conformationally stable spray-dried IgG with enhanced aerosol performance. International Journal of Pharmaceutics, 2014, 466, 163-171.	5.2	44
15	Cationic Solid Lipid Nanoparticles Loaded by Cystein Proteinase Genes as a Novel anti-Leishmaniasis DNA Vaccine Delivery System: Characterization and in vitro Evaluations. Journal of Pharmacy and Pharmaceutical Sciences, 2010, 13, 320.	2.1	42
16	Encapsulation of ritonavir in solid lipid nanoparticles: in-vitro anti-HIV-1 activity using lentiviral particles. Journal of Pharmacy and Pharmacology, 2017, 69, 1002-1009.	2.4	40
17	Measurement and correlation of the solubility of two steroid drugs in supercritical carbon dioxide using semi empirical models. Journal of Supercritical Fluids, 2013, 78, 28-33.	3.2	37
18	Solubility of capecitabine and docetaxel in supercritical carbon dioxide: Data and the best correlation. Thermochimica Acta, 2012, 549, 95-101.	2.7	34

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19	Solubilities of four macrolide antibiotics in supercritical carbon dioxide and their correlations using semi-empirical models. Journal of Supercritical Fluids, 2015, 104, 62-69.	3.2	34
20	Monitoring of trace amounts of some anti-fungal drugs in biological fluids by hollow fiber based liquid phase microextraction followed by high performance liquid chromatography. Analytical Methods, 2010, 2, 387.	2.7	33
21	Spray drying of cefixime nanosuspension to form stabilized and fast dissolving powder. Powder Technology, 2016, 288, 241-248.	4.2	29
22	Application of cyclodextrins in antibody microparticles: potentials for antibody protection in spray drying. Drug Development and Industrial Pharmacy, 2017, 43, 1103-1111.	2.0	27
23	Preparation of an optimized ciprofloxacin-loaded chitosan nanomicelle with enhanced antibacterial activity. Drug Development and Industrial Pharmacy, 2018, 44, 1273-1284.	2.0	27
24	Paromomycin loaded solid lipid nanoparticles: Characterization of production parameters. Biotechnology and Bioprocess Engineering, 2011, 16, 617-623.	2.6	26
25	Production of ultrafine drug particles through rapid expansion of supercritical solution; a statistical approach. Powder Technology, 2012, 225, 21-26.	4.2	26
26	Synergistic effect of rSAG1 and rGRA2 antigens formulated in PLGA microspheres in eliciting immune protection against Toxoplasama gondii. Experimental Parasitology, 2016, 170, 236-246.	1.2	26
27	Effect of amino acids on the stability of spray freeze-dried immunoglobulin G in sugar-based matrices. European Journal of Pharmaceutical Sciences, 2018, 119, 39-48.	4.0	26
28	Inhalable budesonide porous microparticles tailored by spray freeze drying technique. Powder Technology, 2014, 260, 36-41.	4.2	25
29	Spray-Freeze Drying: a Suitable Method for Aerosol Delivery of Antibodies in the Presence of Trehalose and Cyclodextrins. AAPS PharmSciTech, 2018, 19, 2247-2254.	3.3	25
30	Process variables in the formation of nanoparticles of megestrol acetate through rapid expansion of supercritical CO2. Journal of Supercritical Fluids, 2012, 70, 1-7.	3.2	23
31	Effect of formulation ingredients on the physical characteristics of salmeterol xinafoate microparticles tailored by spray freeze drying. Advanced Powder Technology, 2013, 24, 36-42.	4.1	23
32	A comparative study on the physicochemical and biological stability of IgG1 and monoclonal antibodies during spray drying process. DARU, Journal of Pharmaceutical Sciences, 2014, 22, 31.	2.0	23
33	Erythropoietin-loaded solid lipid nanoparticles: Preparation, optimization, and in vivo evaluation. Colloids and Surfaces B: Biointerfaces, 2019, 178, 307-316.	5.0	23
34	Systemic delivery of parathyroid hormone (1â€“34) using spray freeze-dried inhalable particles. Pharmaceutical Development and Technology, 2017, 22, 733-739.	2.4	22
35	Hydroxypropyl beta cyclodextrin: a water-replacement agent or a surfactant upon spray freeze-drying of IgG with enhanced stability and aerosolization. Drug Development and Industrial Pharmacy, 2020, 46, 403-411.	2.0	21
36	The effect of excipients on the stability and aerosol performance of salmon calcitonin dry powder inhalers prepared via the spray freeze drying process. Acta Pharmaceutica, 2016, 66, 207-218.	2.0	21

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37	Solubilities of Flutamide, Dutasteride, and Finasteride as Antiandrogenic Agents, in Supercritical Carbon Dioxide: Measurement and Correlation. Journal of Chemical & Engineering Data, 2010, 55, 1056-1059.	1.9	20
38	C-Terminal Domain Deletion Enhances the Protective Activity of cpa/cpb Loaded Solid Lipid Nanoparticles against Leishmania major in BALB/c Mice. PLoS Neglected Tropical Diseases, 2011, 5, e1236.	3.0	20
39	Solubility of megestrol acetate and levonorgestrel in supercritical carbon dioxide. Thermochimica Acta, 2013, 569, 48-54.	2.7	20
40	Screening and evaluation of variables in the formation of antibody particles by spray drying. Powder Technology, 2013, 233, 341-346.	4.2	20
41	Comparison of Essential Oil Composition ofEucalyptus OleosaObtained by Supercritical Carbon Dioxide and Hydrodistillation. Journal of Herbs, Spices and Medicinal Plants, 2012, 18, 318-330.	1.1	19
42	Production of ultrafine clobetasol propionate via rapid expansion of supercritical solution (RESS): Full factorial approach. Journal of Supercritical Fluids, 2015, 101, 176-183.	3.2	19
43	D-optimal Design for Preparation and Optimization of Fast Dissolving Bosentan Nanosuspension. Advanced Pharmaceutical Bulletin, 2016, 6, 211-218.	1.4	19
44	Brain delivery of baclofen as a hydrophilic drug by nanolipid carriers: Characteristics and pharmacokinetics evaluation. Journal of Drug Delivery Science and Technology, 2017, 37, 67-73.	3.0	19
45	Optimization and characterization of spray-dried IgG formulations: a design of experiment approach. DARU, Journal of Pharmaceutical Sciences, 2017, 25, 22.	2.0	19
46	Respiratory Administration of Infliximab Dry Powder for Local Suppression of Inflammation. AAPS PharmSciTech, 2019, 20, 128.	3.3	18
47	Optimization of a dry powder inhaler of ciprofloxacin-loaded polymeric nanomicelles by spray drying process. Pharmaceutical Development and Technology, 2019, 24, 584-592.	2.4	18
48	Tadalafil nanocomposites as a dry powder formulation for inhalation, a new strategy for pulmonary arterial hypertension treatment. European Journal of Pharmaceutical Sciences, 2019, 133, 275-286.	4.0	16
49	Entrapment of 5-fluorouracil into PLGA matrices using supercritical antisolvent processes. Journal of Pharmacy and Pharmacology, 2011, 63, 500-506.	2.4	14
50	Inhaled sildenafil nanocomposites: lung accumulation and pulmonary pharmacokinetics. Pharmaceutical Development and Technology, 2016, 21, 961-971.	2.4	14
51	Amino acid-based stable adalimumab formulation in spray freeze-dried microparticles for pulmonary delivery. Journal of Drug Delivery Science and Technology, 2019, 54, 101249.	3.0	14
52	Clarithromycin dissolution enhancement by preparation of aqueous nanosuspensions using sonoprecipitation technique. Iranian Journal of Pharmaceutical Research, 2014, 13, 809-18.	0.5	13
53	Optimization of supercritical extraction of Pimpinella affinis Ledeb. using response surface methodology. Journal of CO2 Utilization, 2013, 3-4, 1-6.	6.8	12
54	Formation and Characterization of Beclomethasone Dipropionate Nanoparticles Using Rapid Expansion of Supercritical Solution. Advanced Pharmaceutical Bulletin, 2015, 5, 343-349.	1.4	11

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55	Acknowledgement of manuscript reviewers 2015. DARU, Journal of Pharmaceutical Sciences, 2016, 24, 1.	2.0	9
56	The effect of freeze-dried antibody concentrations on its stability in the presence of trehalose and hydroxypropyl-Î²-cyclodextrin: a Boxâ€“Behnken statistical design. Pharmaceutical Development and Technology, 2017, 22, 724-732.	2.4	9
57	A Comparative Study to Evaluate the Effect of Different Carbohydrates on the Stability of Immunoglobulin G during Lyophilization and Following Storage. Pharmaceutical Sciences, 2016, 22, 251-259.	0.2	9
58	Topical pentoxifylline for pressure ulcer treatment: a randomised, double-blind, placebo-controlled clinical trial. Journal of Wound Care, 2018, 27, 495-502.	1.2	8
59	Drying of a plasmid containing formulation: chitosan as a protecting agent. DARU, Journal of Pharmaceutical Sciences, 2012, 20, 22.	2.0	7
60	Enhanced Dissolution Rate of Tadalafil Nanoparticles Prepared by Sonoprecipitation Technique: Optimization and Physicochemical Investigation. Iranian Journal of Pharmaceutical Research, 2017, 16, 1335-1348.	0.5	7
61	Application of disaccharides alone and in combination, for the improvement of stability and particle properties of spray-freeze dried IgG. Pharmaceutical Development and Technology, 2019, 24, 439-447.	2.4	6
62	Formulation and evaluation of inhalable microparticles of Rizatriptan Benzoate processed by spray freeze-drying. Journal of Drug Delivery Science and Technology, 2021, 62, 102356.	3.0	6
63	Preparation and evaluation of adapalene nanostructured lipid carriers for targeted drug delivery in acne. Dermatologic Therapy, 2021, 34, e14777.	1.7	6
64	Spray freeze-drying for inhalation application: process and formulation variables. Pharmaceutical Development and Technology, 2022, 27, 251-267.	2.4	6
65	In-vitro and in-vivo comparison of rSAG1-loaded PLGA prepared by encapsulation and adsorption methods as an efficient vaccine against Toxoplasma gondiiâ€. Journal of Drug Delivery Science and Technology, 2020, 55, 101327.	3.0	5
66	Optimization of Cefixime Nanosuspension to Improve Drug Dissolution. Pharmaceutical Sciences, 2015, 21, 136-144.	0.8	5
67	Spray freeze drying to solidify Nanosuspension of Cefixime into inhalable microparticles. DARU, Journal of Pharmaceutical Sciences, 2022, 30, 17-27.	2.0	5
68	In Vitro-In Vivo Correlation for the Antibacterial Effect of Lactiplantibacillus plantarum as a Topical Healer for Infected Burn Wound. Probiotics and Antimicrobial Proteins, 2022, , 1.	3.9	5
69	Effect of molecular weight and ratio of poly ethylene glycolsâ€™ derivatives in combination with trehalose on stability of freeze-dried IgG. Drug Development and Industrial Pharmacy, 2017, 43, 1945-1951.	2.0	4
70	Optimization of Stable IgG Formulation Containing Amino Acids and Trehalose During Freeze-Drying and After Storage: a Central Composite Design. AAPS PharmSciTech, 2019, 20, 154.	3.3	4
71	Topical Nifedipine for the Treatment of Pressure Ulcer: A Randomized, Placebo-Controlled Clinical Trial. American Journal of Therapeutics, 2021, 28, e41-e51.	0.9	4
72	Novel combined topical gel of lidocaineâ€“verapamilâ€“nitroglycerin can dilate the radial artery and reduce radial pain during trans-radial angioplasty. IJC Heart and Vasculature, 2021, 32, 100689.	1.1	4

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73	Solubility of some inhaled glucocorticoids in supercritical carbon dioxide. Journal of Supercritical Fluids, 2005, 33, 21-25.	3.2	4
74	Porous Microparticles Containing Raloxifene Hydrochloride Tailored by Spray Freeze Drying for Solubility Enhancement. Advanced Pharmaceutical Bulletin, 2018, 8, 217-223.	1.4	4
75	Preparation and physicochemical evaluation of transdermal aerosols containing ketoprofen. Tropical Journal of Pharmaceutical Research, 2017, 16, 1813.	0.3	1
76	Human Serum Albumin, a Suitable Candidate to Stabilize Freeze-Dried IgG in Combination with Trehalose: Central Composite Design. AAPS PharmSciTech, 2019, 20, 327.	3.3	0