Luca Casettari

List of Publications by Year
in descending order

88 papers	3,619 citations	126858 33 h-index	143943 57 g-index
88 all docs	88 docs citations	88 times ranked	5601 citing authors

#	Article	IF	Citations
1	Chitosan in nasal delivery systems for therapeutic drugs. Journal of Controlled Release, 2014, 190, 189-200.	4.8	331
2	PEGylated chitosan derivatives: Synthesis, characterizations and pharmaceutical applications. Progress in Polymer Science, 2012, 37, 659-685.	11.8	204
3	Tight junction modulation by chitosan nanoparticles: Comparison with chitosan solution. International Journal of Pharmaceutics, 2010, 400, 183-193.	2.6	197
4	Chitosan-based nanosystems and their exploited antimicrobial activity. European Journal of Pharmaceutical Sciences, 2018, 117, 8-20.	1.9	196
5	Biomedical applications of amino acid-modified chitosans: A review. Biomaterials, 2012, 33, 7565-7583.	5.7	123
6	Acute and sub-lethal toxicity of eight essential oils of commercial interest against the filariasis mosquito Culex quinquefasciatus and the housefly Musca domestica. Industrial Crops and Products, 2018, 112, 668-680.	2.5	111
7	Application of Permeation Enhancers in Oral Delivery of Macromolecules: An Update. Pharmaceutics, 2019, 11, 41.	2.0	111
8	Polyhydroxyalkanoate (PHA): applications in drug delivery and tissue engineering. Expert Review of Medical Devices, 2019, 16, 467-482.	1.4	106
9	Effect of PEGylation on the Toxicity and Permeability Enhancement of Chitosan. Biomacromolecules, 2010, 11, 2854-2865.	2.6	92
10	3D Printing of Drug-Loaded Thermoplastic Polyurethane Meshes: A Potential Material for Soft Tissue Reinforcement in Vaginal Surgery. Pharmaceutics, 2020, 12, 63.	2.0	92
11	Fabrication of novel high performance ductile poly(lactic acid) nanofiber scaffold coated with poly(vinyl alcohol) for tissue engineering applications. Materials Science and Engineering C, 2016, 60, 143-150.	3.8	90
12	Nasal vaccination against SARS-CoV-2: Synergistic or alternative to intramuscular vaccines?. International Journal of Pharmaceutics, 2021, 603, 120686.	2.6	83
13	Activity of essential oil-based microemulsions against Staphylococcus aureus biofilms developed on stainless steel surface in different culture media and growth conditions. International Journal of Food Microbiology, 2017, 241, 132-140.	2.1	77
14	Peptide-guided resiquimod-loaded lignin nanoparticles convert tumor-associated macrophages from M2 to M1 phenotype for enhanced chemotherapy. Acta Biomaterialia, 2021, 133, 231-243.	4.1	72
15	Lactose oleate as new biocompatible surfactant for pharmaceutical applications. European Journal of Pharmaceutics and Biopharmaceutics, 2018, 124, 55-62.	2.0	71
16	Absorption-promoting effects of chitosan in airway and intestinal cell lines: A comparative study. International Journal of Pharmaceutics, 2012, 430, 151-160.	2.6	63
17	3D printed clotrimazole intravaginal ring for the treatment of recurrent vaginal candidiasis. International Journal of Pharmaceutics, 2021, 596, 120290.	2.6	58
18	Engineered Multifunctional Albuminâ€Ðecorated Porous Silicon Nanoparticles for FcRn Translocation of Insulin. Small, 2018, 14, e1800462.	5.2	53

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19	Characterization of biosurfactants produced by Lactobacillus spp. and their activity against oral streptococci biofilm. Applied Microbiology and Biotechnology, 2016, 100, 6767-6777.	1.7	45
20	Unsaturated fatty acids lactose esters: cytotoxicity, permeability enhancement and antimicrobial activity. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 107, 88-96.	2.0	44
21	Determination of factors controlling the particle size and entrapment efficiency of noscapine in PEG/PLA nanoparticles using artificial neural networks. International Journal of Nanomedicine, 2014, 9, 4953.	3.3	42
22	Comparative Study of Diethylaminoethyl-Chitosan and Methylglycol-Chitosan as Potential Non-Viral Vectors for Gene Therapy. Polymers, 2018, 10, 442.	2.0	42
23	Oleanolic Acid Loaded PEGylated PLA and PLGA Nanoparticles with Enhanced Cytotoxic Activity against Cancer Cells. Molecular Pharmaceutics, 2015, 12, 2112-2125.	2.3	38
24	Inhalable spray-dried formulation of D-LAK antimicrobial peptides targeting tuberculosis. International Journal of Pharmaceutics, 2015, 491, 367-374.	2.6	37
25	Chitosan Loaded into a Hydrogel Delivery System as a Strategy to Treat Vaginal Co-Infection. Pharmaceutics, 2018, 10, 23.	2.0	37
26	Exploring optimized methoxy poly(ethylene glycol)-block-poly(Îµ-caprolactone) crystalline cored micelles in anti-glaucoma pharmacotherapy. International Journal of Pharmaceutics, 2019, 566, 573-584.	2.6	37
27	Radical scavenging activity of 5-methylpyrrolidinone chitosan and dibutyryl chitin. Carbohydrate Polymers, 2008, 74, 640-647.	5.1	36
28	Microfluidics for nanomedicines manufacturing: An affordable and low-cost 3D printing approach. International Journal of Pharmaceutics, 2021, 599, 120464.	2.6	36
29	Pulmonary delivery of rifampicin microspheres using lower generation polyamidoamine dendrimers as a carrier. Powder Technology, 2016, 291, 366-374.	2.1	35
30	A Tailored Thermosensitive PLGA-PEG-PLGA/Emulsomes Composite for Enhanced Oxcarbazepine Brain Delivery via the Nasal Route. Pharmaceutics, 2018, 10, 217.	2.0	35
31	Quercetin Loaded Monolaurate Sugar Esters-Based Niosomes: Sustained Release and Mutual Antioxidantâ€"Hepatoprotective Interplay. Pharmaceutics, 2020, 12, 143.	2.0	35
32	Surface Characterisation of Bioadhesive PLGA/Chitosan Microparticles Produced by Supercritical Fluid Technology. Pharmaceutical Research, 2011, 28, 1668-1682.	1.7	34
33	ORAC of chitosan and its derivatives. Food Hydrocolloids, 2012, 28, 243-247.	5.6	34
34	Effect of temperature increase during the tableting of pharmaceutical materials. International Journal of Pharmaceutics, 2013, 448, 320-326.	2.6	34
35	Acoustic spectroscopy: A powerful analytical method for the pharmaceutical field?. International Journal of Pharmaceutics, 2016, 503, 174-195.	2.6	34
36	Chemicalâ€"physical properties and cytotoxicity of N -decanoyl amino acid-based surfactants: Effect of polar heads. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2016, 492, 38-46.	2.3	33

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37	Aggregation of zein in aqueous ethanol dispersions: Effect on cast film properties. International Journal of Biological Macromolecules, 2018, 106, 360-368.	3.6	31
38	Triamcinolone acetonide-loaded PLA/PEG-PDL microparticles for effective intra-articular delivery: synthesis, optimization, in vitro and in vivo evaluation. Journal of Controlled Release, 2019, 309, 125-144.	4.8	31
39	Chitosans inhibit the growth and the adhesion of Klebsiella pneumoniae and Escherichia coli clinical isolates on urinary catheters. International Journal of Antimicrobial Agents, 2017, 50, 135-141.	1.1	29
40	Dynamic mechanical thermal analysis of hypromellose 2910 free films. European Journal of Pharmaceutics and Biopharmaceutics, 2011, 79, 458-463.	2.0	28
41	Characterization of the interaction between chitosan and inorganic sodium phosphates by means of rheological and optical microscopy studies. Carbohydrate Polymers, 2013, 91, 597-602.	5.1	28
42	Correlation among chemical structure, surface properties and cytotoxicity of N-acyl alanine and serine surfactants. European Journal of Pharmaceutics and Biopharmaceutics, 2016, 109, 93-102.	2.0	28
43	Evaluation of P(L)LA-PEG-P(L)LA as processing aid for biodegradable particles from gas saturated solutions (PGSS) process. International Journal of Pharmaceutics, 2014, 468, 250-257.	2.6	27
44	Synthesis, Structureâ€“Activity Relationships and In Vitro Toxicity Profile of Lactose-Based Fatty Acid Monoesters as Possible Drug Permeability Enhancers. Pharmaceutics, 2018, 10, 81.	2.0	27
45	Rheological characterization of polyvinyl caprolactamâ€“polyvinyl acetateâ€“polyethylene glycol graft copolymer (SoluplusÂ®) water dispersions. Colloid and Polymer Science, 2014, 292, 235-241.	1.0	26
46	Effect of phosphate buffer on the micellisation process of Poloxamer 407: Microcalorimetry, acoustic spectroscopy and dynamic light scattering (DLS) studies. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 436, 123-129.	2.3	24
47	Transmucosal Absorption Enhancers in the Drug Delivery Field. Pharmaceutics, 2019, 11, 339.	2.0	24
48	Evaluation of thermosensitive poloxamer 407 gel systems for the sustained release of estradiol in a fish model. European Journal of Pharmaceutics and Biopharmaceutics, 2014, 88, 954-961.	2.0	22
49	Dextran and its potential use as tablet excipient. Powder Technology, 2015, 273, 125-132.	2.1	22
50	Linear Viscoelastic Properties of Selected Polysaccharide Gums as Function of Concentration, pH, and Temperature. Journal of Food Science, 2019, 84, 65-72.	1.5	22
51	3D-printed microfluidic chip for the preparation of glycyrrhetinic acid-loaded ethanolic liposomes. International Journal of Pharmaceutics, 2020, 584, 119436.	2.6	22
52	Formulation, swelling and dissolution kinetics study of zein based matrix tablets. Powder Technology, 2017, 310, 241-249.	2.1	21
53	Chitosans as new tools against biofilms formation on the surface of silicone urinary catheters. International Journal of Biological Macromolecules, 2018, 118, 2193-2200.	3.6	21
54	Anti-SASP and anti-inflammatory activity of resveratrol, curcumin and Î²-caryophyllene association on human endothelial and monocytic cells. Biogerontology, 2021, 22, 297-313.	2.0	21

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55	Potential and development of inhaled RNAi therapeutics for the treatment of pulmonary tuberculosis. Advanced Drug Delivery Reviews, 2016, 102, 21-32.	6.6	20
56	Properties and stability of nanoemulsions: How relevant is the type of surfactant?. Journal of Drug Delivery Science and Technology, 2020, 58, 101772.	1.4	19
57	Microparticles-in-Thermoresponsive/Bioadhesive Hydrogels as a Novel Integrated Platform for Effective Intra-articular Delivery of Triamcinolone Acetonide. Molecular Pharmaceutics, 2020, 17, 1963-1978.	2.3	19
58	Rhamnolipids as epithelial permeability enhancers for macromolecular therapeutics. European Journal of Pharmaceutics and Biopharmaceutics, 2017, 119, 419-425.	2.0	18
59	Star-shaped poly(oligoethylene glycol) copolymer-based gels: Thermo-responsive behaviour and bioapplicability for risedronate intranasal delivery. International Journal of Pharmaceutics, 2018, 543, 224-233.	2.6	18
60	Folic Acid Conjugated Chitosan Nanoparticles for Tumor Targeting of Therapeutic and Imaging Agents. Pharmaceutical Nanotechnology, 2013, 1, 184-203.	0.6	17
61	Nanoparticles Based on Linear and Star-Shaped Poly(Ethylene Glycol)-Poly(Îµ-Caprolactone) Copolymers for the Delivery of Antitubulin Drug. Pharmaceutical Research, 2016, 33, 2010-2024.	1.7	17
62	Development and In Vivo Evaluation of Multidrug Ultradeformable Vesicles for the Treatment of Skin Inflammation. Pharmaceutics, 2019, 11, 644.	2.0	17
63	Prunus spinosa Extract Loaded in Biomimetic Nanoparticles Evokes In Vitro Anti-Inflammatory and Wound Healing Activities. Nanomaterials, 2021, 11, 36.	1.9	17
64	Poloxamer Thermogel Systems as Medium for Crystallization. Pharmaceutical Research, 2012, 29, 818-826.	1.7	16
65	Determining critical parameters that influence in vitro performance characteristics of a thermosensitive liposome formulation of vinorelbine. Journal of Controlled Release, 2020, 328, 551-561.	4.8	16
66	Effect of manufacturing temperature and molecular weights on compression, mechanical and dissolution properties of PEO matrix tablets. Journal of Drug Delivery Science and Technology, 2016, 32, 236-240.	1.4	15
67	A combination of sugar esters and chitosan to promote in vivo wound care. International Journal of Pharmaceutics, 2022, 616, 121508.	2.6	15
68	Comparative Analysis of the Antimicrobial Activity of Essential Oils and Their Formulated Microemulsions against Foodborne Pathogens and Spoilage Bacteria. Antibiotics, 2022, 11, 447.	1.5	15
69	Microfluidic production of protein loaded chimeric stealth liposomes. International Journal of Pharmaceutics, 2020, 590, 119955.	2.6	14
70	Intracellular Delivery of Budesonide and Polydopamine Coâ€Loaded in Endosomolytic Poly(butyl) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 1 from M1 to M2. Advanced Therapeutics, 2021, 4, 2000058.	1.6	13
71	PEGylation affects the self-assembling behaviour of amphiphilic octapeptides. International Journal of Pharmaceutics, 2019, 571, 118752.	2.6	9
72	Optimization of Melatonin Dissolution from Extended Release Matrices Using Artificial Neural Networking. Current Drug Delivery, 2016, 13, 565-573.	0.8	9

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73	The use of acoustic spectroscopy in the characterisation of ternary phase diagrams. International Journal of Pharmaceutics, 2013, 441, 603-610.	2.6	7
74	Could Albumin Affect the Self-Assembling Properties of a Block Co-polymer System and Drug Release? An In-Vitro Study. Pharmaceutical Research, 2015, 32, 1094-1104.	1.7	7
75	Insights in the rheological properties of PLGA-PEG-PLGA aqueous dispersions: Structural properties and temperature-dependent behaviour. Polymer, 2021, 213, 123216.	1.8	7
76	Permeability-enhancing effects of three laurate-disaccharide monoesters across isolated rat intestinal mucosae. International Journal of Pharmaceutics, 2021, 601, 120593.	2.6	7
77	PEGylated Biodegradable Polyesters for PGSS Microparticles Formulation: Processability, Physical and Release Properties. Current Drug Delivery, 2016, 13, 673-681.	0.8	7
78	Use of in-die powder densification parameters in the implementation of process analytical technologies for tablet production on industrial scale. International Journal of Pharmaceutics, 2014, 477, 140-147.	2.6	6
79	Evaluation of Citrus Fibers as a Tablet Excipient. AAPS PharmSciTech, 2014, 15, 279-286.	1.5	6
80	Incorporation of PEGylated Î´-decalactone into lipid bilayers: thermodynamic study and chimeric liposomes development. Journal of Liposome Research, 2020, 30, 209-217.	1.5	6
81	Poly(3-hydroxybutyrate): A potential biodegradable excipient for direct 3D printing of pharmaceuticals. International Journal of Pharmaceutics, 2022, 623, 121960.	2.6	6
82	Water-in-Oil Microemulsions for Protein Delivery: Loading Optimization and Stability. Current Pharmaceutical Biotechnology, 2017, 18, 410-421.	0.9	5
83	Evaluation of dibutyrylchitin as new excipient for sustained drug release. Drug Development and Industrial Pharmacy, 2012, 38, 979-984.	0.9	4
84	Evaluation of methoxy polyethylene glycolâ€polylactide diblock copolymers as additive in hypromellose film coating. Polymers for Advanced Technologies, 2013, 24, 1018-1024.	1.6	4
85	An easy 3D printing approach to manufacture vertical diffusion cells for in vitro release and permeation studies. Journal of Drug Delivery Science and Technology, 2021, 65, 102661.	1.4	4
86	Development and evaluation of a 3D printing protocol to produce zolpidem-containing printlets, as compounding preparation, by the pressurized-assisted microsyringes technique. International Journal of Pharmaceutics, 2022, 621, 121756.	2.6	3
87	Rheological and thermo-mechanical properties of Sepifilmâ€“Sepisperse water dispersions and films. Thermochimica Acta, 2013, 557, 7-12.	1.2	2
88	Chemical and microbiological stability studies of an aqueous solution of pravastatin sodium salt for drug therapy of the dysphagic patients. European Journal of Hospital Pharmacy, 2016, 23, 288-293.	0.5	2