

# Diego Caccavo

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8666285/publications.pdf>

Version: 2024-02-01

32  
papers

835  
citations

623734

14  
h-index

526287

27  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1213  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydrogels: experimental characterization and mathematical modelling of their mechanical and diffusive behaviour. <i>Chemical Society Reviews</i> , 2018, 47, 2357-2373.	38.1	172
2	An overview on the mathematical modeling of hydrogels' behavior for drug delivery systems. <i>International Journal of Pharmaceutics</i> , 2019, 560, 175-190.	5.2	90
3	Modeling the Drug Release from Hydrogel-Based Matrices. <i>Molecular Pharmaceutics</i> , 2015, 12, 474-483.	4.6	84
4	Controlled drug release from hydrogel-based matrices: Experiments and modeling. <i>International Journal of Pharmaceutics</i> , 2015, 486, 144-152.	5.2	59
5	PoroViscoElastic model to describe hydrogels' behavior. <i>Materials Science and Engineering C</i> , 2017, 76, 102-113.	7.3	37
6	Wet-granulation process: phenomenological analysis and process parameters optimization. <i>Powder Technology</i> , 2018, 340, 411-419.	4.2	36
7	Effects of HPMC substituent pattern on water up-take, polymer and drug release: An experimental and modelling study. <i>International Journal of Pharmaceutics</i> , 2017, 528, 705-713.	5.2	29
8	Mechanics and transport phenomena in agarose-based hydrogels studied by compression-relaxation tests. <i>Carbohydrate Polymers</i> , 2017, 167, 136-144.	10.2	28
9	Swellable Hydrogel-based Systems for Controlled Drug Delivery. , 0, , .		22
10	Engineering approaches in siRNA delivery. <i>International Journal of Pharmaceutics</i> , 2017, 525, 343-358.	5.2	21
11	Mathematical modelling of the drug release from an ensemble of coated pellets. <i>British Journal of Pharmacology</i> , 2017, 174, 1797-1809.	5.4	20
12	Determination of the release mechanism of Theophylline from pellets coated with Surelease <sup>®</sup> A water dispersion of ethyl cellulose. <i>International Journal of Pharmaceutics</i> , 2017, 528, 345-353.	5.2	20
13	Modeling capillary formation in calcium and copper alginate gels. <i>Materials Science and Engineering C</i> , 2016, 58, 442-449.	7.3	18
14	HPMC granules by wet granulation process: Effect of vitamin load on physicochemical, mechanical and release properties. <i>Carbohydrate Polymers</i> , 2018, 181, 939-947.	10.2	17
15	Modeling the modified drug release from curved shape drug delivery systems " Dome Matrix <sup>®</sup> . <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2017, 121, 24-31.	4.3	16
16	Understanding the adhesion phenomena in carbohydrate-hydrogel-based systems: Water up-take, swelling and elastic detachment. <i>Carbohydrate Polymers</i> , 2015, 131, 41-49.	10.2	14
17	Drug delivery from hydrogels: A general framework for the release modeling. <i>Current Drug Delivery</i> , 2016, 13, 1-1.	1.6	13
18	Polymeric and lipid-based systems for controlled drug release: an engineering point of view. , 2019, , 267-304.		12

#	ARTICLE	IF	CITATIONS
19	Modeling the mechanics and the transport phenomena in hydrogels. Computer Aided Chemical Engineering, 2018, 42, 357-383.	0.5	10
20	Drug release from hydrogel-based matrix systems partially coated: experiments and modeling. Journal of Drug Delivery Science and Technology, 2021, 61, 102146.	3.0	10
21	Mechanics and drug release from poroviscoelastic hydrogels: Experiments and modeling. European Journal of Pharmaceutics and Biopharmaceutics, 2020, 152, 299-306.	4.3	8
22	Engineering approaches for drug delivery systems production and characterization. International Journal of Pharmaceutics, 2020, 581, 119267.	5.2	8
23	Effect of binder and load solubility properties on HPMC granules produced by wet granulation process. Journal of Drug Delivery Science and Technology, 2019, 49, 513-520.	3.0	6
24	Gelation process of carboxymethyl chitosan-zinc supramolecular hydrogel studied with fluorescence imaging and mathematical modelling. International Journal of Pharmaceutics, 2021, 605, 120804.	5.2	6
25	A low-cost push-pull syringe pump for continuous flow applications. HardwareX, 2022, 11, e00295.	2.2	5
26	Chemical Engineering in the "BIO" world. Current Drug Delivery, 2016, 13, 1-1.	1.6	4
27	HPMC-based granules for prolonged release of phytostrengtheners in agriculture. Chemical Engineering Communications, 2017, 204, 1333-1340.	2.6	3
28	An Engineering Point of View on the Use of the Hydrogels for Pharmaceutical and Biomedical Applications. , 2016, , .		2
29	Nanoliposomes in polymeric granules: Novel process strategy to produce stable and versatile delivery systems. Journal of Drug Delivery Science and Technology, 2020, 59, 101878.	3.0	2
30	Inside the Phenomenological Aspects of Wet Granulation: Role of Process Parameters. , 0, , .		1
31	Dynamometric measurements of hydrogels' mechanical spectra. Journal of Applied Polymer Science, 2021, 138, 50702.	2.6	1
32	Modeling of the Behavior of Natural Polysaccharides Hydrogels for Bio-pharma Applications. Natural Product Communications, 2017, 12, 1934578X1701200.	0.5	0