Tommaso Casalini

List of Publications by Year
in descending order

40	1,077	567281 15	414414 32
papers	citations	h-index	g-index

41	41	41	1714
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Perspective on Polylactic Acid-Based Polymers Use for Nanoparticles Synthesis and Applications. Frontiers in Bioengineering and Biotechnology, 2019, 7, 259.	4.1	285
2	Diffusion and Aggregation of Sodium Fluorescein in Aqueous Solutions. Journal of Physical Chemistry B, 2011, 115, 12896-12904.	2.6	85
3	Synthetic design of growth factor sequestering extracellular matrix mimetic hydrogel for promoting inÂvivo bone formation. Biomaterials, 2018, 161, 190-202.	11.4	74
4	Mathematical Modeling of PLGA Microparticles: From Polymer Degradation to Drug Release. Molecular Pharmaceutics, 2014, 11, 4036-4048.	4.6	71
5	Molecular Modeling for Nanomaterialâ€“Biology Interactions: Opportunities, Challenges, and Perspectives. Frontiers in Bioengineering and Biotechnology, 2019, 7, 268.	4.1	55
6	Scaffolds as Structural Tools for Bone-Targeted Drug Delivery. Pharmaceutics, 2018, 10, 122.	4.5	52
7	Not only in silico drug discovery: Molecular modeling towards in silico drug delivery formulations. Journal of Controlled Release, 2021, 332, 390-417.	9.9	47
8	Tunable hydrogelâ€”Nanoparticles release system for sustained combination therapies in the spinal cord. Colloids and Surfaces B: Biointerfaces, 2013, 108, 169-177.	5.0	38
9	Bioresorbable Polymer Coated Drug Eluting Stent: A Model Study. Molecular Pharmaceutics, 2012, 9, 1898-1910.	4.6	35
10	Computational Assessment of the Pharmacological Profiles of Degradation Products of Chitosan. Frontiers in Bioengineering and Biotechnology, 2019, 7, 214.	4.1	35
11	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Nonâ€Viral Transfection Method. Angewandte Chemie - International Edition, 2019, 58, 2815-2819.	13.8	33
12	Characterization and Degradation Behavior of Agarâ€“Carbomer Based Hydrogels for Drug Delivery Applications: Solute Effect. International Journal of Molecular Sciences, 2011, 12, 3394-3408.	4.1	32
13	Drug eluting sutures: A model for in vivo estimations. International Journal of Pharmaceutics, 2012, 429, 148-157.	5.2	27
14	From Microscale to Macroscale: Nine Orders of Magnitude for a Comprehensive Modeling of Hydrogels for Controlled Drug Delivery. Gels, 2019, 5, 28.	4.5	27
15	A Methodologic Approach for the Selection of Bio-Resorbable Polymers in the Development of Medical Devices: The Case of Poly(l-lactide-co-Îµ-caprolactone). Polymers, 2018, 10, 851.	4.5	25
16	Structural Characterization of Poly-L-lactic Acid (PLLA) and Poly(glycolic acid)(PGA) Oligomers. International Journal of Molecular Sciences, 2011, 12, 3857-3870.	4.1	15
17	Contribution of Electrostatics in the Fibril Stability of a Model Ionic-Complementary Peptide. Biomacromolecules, 2015, 16, 3792-3801.	5.4	15
18	Gasâ€Phase Polyethylene Reactorsâ€”A Critical Review of Modeling Approaches. Macromolecular Reaction Engineering, 2021, 15, 2000059.	1.5	14

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19	Selfâ€assembling amphiphilic <scp>PEG</scp>ylated block copolymers obtained through <scp>RAFT</scp> polymerization for drugâ€delivery applications. Journal of Applied Polymer Science, 2016, 133, .	2.6	13
20	Preparation of PEGylated liposomes incorporating lipophilic lomeguatrib derivatives for the sensitization of chemo-resistant gliomas. International Journal of Pharmaceutics, 2018, 536, 388-396.	5.2	12
21	Modeling of Polyolefin Polymerization in Semibatch Slurry Reactors: Experiments and Simulations. Macromolecular Reaction Engineering, 2017, 11, 1600036.	1.5	10
22	Presumed LRP1-targeting transport peptide delivers Î²-secretase inhibitor to neurons in vitro with limited efficiency. Scientific Reports, 2016, 6, 34297.	3.3	9
23	Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Dropletâ€Based Microfluidics. Advanced Materials Technologies, 2019, 4, 1900092.	5.8	9
24	The Effect of Residence Time Distribution on the Slurryâ€Phase Catalytic Ethylene Polymerization: An Experimental and Computational Study. Macromolecular Reaction Engineering, 2018, 12, 1700058.	1.5	8
25	Modeling the Structure and Interactions of Intrinsically Disordered Peptides with Multiple Replica, Metadynamics-Based Sampling Methods and Force-Field Combinations. Journal of Chemical Theory and Computation, 2022, 18, 1915-1928.	5.3	7
26	Lidocaine release from polycaprolactone threads. Journal of Applied Polymer Science, 2010, 117, 3610-3614.	2.6	6
27	Gastroresistant oral peptide for fluorescence imaging of colonic inflammation. Journal of Controlled Release, 2017, 262, 118-126.	9.9	5
28	The influence of substituents on gelation and stacking order of oligoaramid â€“ based supramolecular networks. Soft Matter, 2019, 15, 7250-7261.	2.7	5
29	Synthesis and characterization of lanthanum bonded agar-carbomer hydrogel: a promising tool for biomedical research. Journal of Rare Earths, 2011, 29, 259-264.	4.8	4
30	A Systematic Experimental and Computational Analysis of Commercially Available Aliphatic Polyesters. Applied Sciences (Switzerland), 2019, 9, 3397.	2.5	4
31	Permeation of Biopolymers Across the Cell Membrane: A Computational Comparative Study on Polylactic Acid and Polyhydroxyalkanoate. Frontiers in Bioengineering and Biotechnology, 2020, 8, 718.	4.1	4
32	Methylprednisolone release from agar-Carbomer-based hydrogel: a promising tool for local drug delivery. Chemical Papers, 2011, 65, .	2.2	3
33	Modeling the Microenvironment-Dependent Degradation of Drug-Loaded Polylactic-co-glycolic Microparticles. Industrial & Engineering Chemistry Research, 2021, 60, 10683-10698.	3.7	3
34	Theoretical Investigation of Design Space for Multi Layer Drug Eluting Bioresorbable Suture Threads. Current Pharmaceutical Biotechnology, 2019, 20, 332-345.	1.6	3
35	Fundamentals and application of modeling in support of spinal cord injury repair strategies. , 2020, , 279-306.		2
36	Targeting transdifferentiated hepatic stellate cells and monitoring the hepatic fibrogenic process by means of IGF2R-specific peptides designed in silico. Journal of Materials Chemistry B, 2021, 9, 2092-2106.	5.8	2

#	Article	IF	Citations
37	Microcapsules: Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Dropletâ€Based Microfluidics (Adv. Mater. Technol. 6/2019). Advanced Materials Technologies, 2019, 4, 1970032.	5.8	1
38	Optimized Design and Development of a Bioresorbable High Rotational Stability Fixation System for Small Bone Fragments. Advanced Engineering Materials, 2020, 22, 1901505.	3.5	1
39	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Nonâ€Viral Transfection Method. Angewandte Chemie, 2019, 131, 2841-2845.	2.0	0
40	FBR for Polyolefin Production in Gas Phase: Validation of a Twoâ€phase Compartmentalized Model by Comparison with CFD. Macromolecular Reaction Engineering, 0, , 2100058.	1.5	0