

Tommaso Casalini

List of Publications by Year in descending order

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Version: 2024-02-01

40
papers

1,077
citations

566801

15
h-index

414034

32
g-index

41
all docs

41
docs citations

41
times ranked

1714
citing authors

#	ARTICLE	IF	CITATIONS
1	A Perspective on Polylactic Acid-Based Polymers Use for Nanoparticles Synthesis and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 259.	2.0	285
2	Diffusion and Aggregation of Sodium Fluorescein in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12896-12904.	1.2	85
3	Synthetic design of growth factor sequestering extracellular matrix mimetic hydrogel for promoting in vivo bone formation. <i>Biomaterials</i> , 2018, 161, 190-202.	5.7	74
4	Mathematical Modeling of PLGA Microparticles: From Polymer Degradation to Drug Release. <i>Molecular Pharmaceutics</i> , 2014, 11, 4036-4048.	2.3	71
5	Molecular Modeling for Nanomaterial-Biology Interactions: Opportunities, Challenges, and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 268.	2.0	55
6	Scaffolds as Structural Tools for Bone-Targeted Drug Delivery. <i>Pharmaceutics</i> , 2018, 10, 122.	2.0	52
7	Not only in silico drug discovery: Molecular modeling towards in silico drug delivery formulations. <i>Journal of Controlled Release</i> , 2021, 332, 390-417.	4.8	47
8	Tunable hydrogel-Nanoparticles release system for sustained combination therapies in the spinal cord. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 169-177.	2.5	38
9	Bioresorbable Polymer Coated Drug Eluting Stent: A Model Study. <i>Molecular Pharmaceutics</i> , 2012, 9, 1898-1910.	2.3	35
10	Computational Assessment of the Pharmacological Profiles of Degradation Products of Chitosan. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 214.	2.0	35
11	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Non-Viral Transfection Method. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2815-2819.	7.2	33
12	Characterization and Degradation Behavior of Agar-Carbomer Based Hydrogels for Drug Delivery Applications: Solute Effect. <i>International Journal of Molecular Sciences</i> , 2011, 12, 3394-3408.	1.8	32
13	Drug eluting sutures: A model for in vivo estimations. <i>International Journal of Pharmaceutics</i> , 2012, 429, 148-157.	2.6	27
14	From Microscale to Macroscale: Nine Orders of Magnitude for a Comprehensive Modeling of Hydrogels for Controlled Drug Delivery. <i>Gels</i> , 2019, 5, 28.	2.1	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-ε-caprolactone). <i>Polymers</i> , 2018, 10, 851.	2.0	25
16	Structural Characterization of Poly-L-lactic Acid (PLLA) and Poly(glycolic acid)(PGA) Oligomers. <i>International Journal of Molecular Sciences</i> , 2011, 12, 3857-3870.	1.8	15
17	Contribution of Electrostatics in the Fibril Stability of a Model Ionic-Complementary Peptide. <i>Biomacromolecules</i> , 2015, 16, 3792-3801.	2.6	15
18	Gas-Phase Polyethylene Reactors-A Critical Review of Modeling Approaches. <i>Macromolecular Reaction Engineering</i> , 2021, 15, 2000059.	0.9	14

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19	Self-Assembling amphiphilic PEGylated block copolymers obtained through RAFT polymerization for drug delivery applications. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	1.3	13
20	Preparation of PEGylated liposomes incorporating lipophilic lomeguatrib derivatives for the sensitization of chemo-resistant gliomas. <i>International Journal of Pharmaceutics</i> , 2018, 536, 388-396.	2.6	12
21	Modeling of Polyolefin Polymerization in Semibatch Slurry Reactors: Experiments and Simulations. <i>Macromolecular Reaction Engineering</i> , 2017, 11, 1600036.	0.9	10
22	Presumed LRP1-targeting transport peptide delivers β -secretase inhibitor to neurons in vitro with limited efficiency. <i>Scientific Reports</i> , 2016, 6, 34297.	1.6	9
23	Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900092.	3.0	9
24	The Effect of Residence Time Distribution on the Slurry-Phase Catalytic Ethylene Polymerization: An Experimental and Computational Study. <i>Macromolecular Reaction Engineering</i> , 2018, 12, 1700058.	0.9	8
25	Modeling the Structure and Interactions of Intrinsically Disordered Peptides with Multiple Replica, Metadynamics-Based Sampling Methods and Force-Field Combinations. <i>Journal of Chemical Theory and Computation</i> , 2022, 18, 1915-1928.	2.3	7
26	Lidocaine release from polycaprolactone threads. <i>Journal of Applied Polymer Science</i> , 2010, 117, 3610-3614.	1.3	6
27	Gastroresistant oral peptide for fluorescence imaging of colonic inflammation. <i>Journal of Controlled Release</i> , 2017, 262, 118-126.	4.8	5
28	The influence of substituents on gelation and stacking order of oligoaramid " based supramolecular networks. <i>Soft Matter</i> , 2019, 15, 7250-7261.	1.2	5
29	Synthesis and characterization of lanthanum bonded agar-carbomer hydrogel: a promising tool for biomedical research. <i>Journal of Rare Earths</i> , 2011, 29, 259-264.	2.5	4
30	A Systematic Experimental and Computational Analysis of Commercially Available Aliphatic Polyesters. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3397.	1.3	4
31	Permeation of Biopolymers Across the Cell Membrane: A Computational Comparative Study on Polylactic Acid and Polyhydroxyalkanoate. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020, 8, 718.	2.0	4
32	Methylprednisolone release from agar-Carbomer-based hydrogel: a promising tool for local drug delivery. <i>Chemical Papers</i> , 2011, 65, .	1.0	3
33	Modeling the Microenvironment-Dependent Degradation of Drug-Loaded Polylactic-co-glycolic Microparticles. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 10683-10698.	1.8	3
34	Theoretical Investigation of Design Space for Multi Layer Drug Eluting Bioresorbable Suture Threads. <i>Current Pharmaceutical Biotechnology</i> , 2019, 20, 332-345.	0.9	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. <i>Journal of Materials Chemistry B</i> , 2021, 9, 2092-2106.	2.9	2

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37	Microcapsules: Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics (Adv. Mater. Technol. 6/2019). Advanced Materials Technologies, 2019, 4, 1970032.	3.0	1
38	Optimized Design and Development of a Bioresorbable High Rotational Stability Fixation System for Small Bone Fragments. Advanced Engineering Materials, 2020, 22, 1901505.	1.6	1
39	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Non-Viral Transfection Method. Angewandte Chemie, 2019, 131, 2841-2845.	1.6	0
40	FBR for Polyolefin Production in Gas Phase: Validation of a Two-Phase Compartmentalized Model by Comparison with CFD. Macromolecular Reaction Engineering, 0, , 2100058.	0.9	0