

# Tommaso Casalini

## List of Publications by Year in descending order

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Version: 2024-02-01

40  
papers

1,077  
citations

567281

15  
h-index

414414

32  
g-index

41  
all docs

41  
docs citations

41  
times ranked

1714  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	5.3	7
2	Not only in silico drug discovery: Molecular modeling towards in silico drug delivery formulations. <i>Journal of Controlled Release</i> , 2021, 332, 390-417.	9.9	47
3	Gasâ€Phase Polyethylene Reactorsâ€A Critical Review of Modeling Approaches. <i>Macromolecular Reaction Engineering</i> , 2021, 15, 2000059.	1.5	14
4	Modeling the Microenvironment-Dependent Degradation of Drug-Loaded Polylactic-co-glycolic Microparticles. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 10683-10698.	3.7	3
5	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.	5.8	2
6	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.	4.1	4
7	Fundamentals and application of modeling in support of spinal cord injury repair strategies. , 2020, , 279-306.		2
8	Optimized Design and Development of a Bioresorbable High Rotational Stability Fixation System for Small Bone Fragments. <i>Advanced Engineering Materials</i> , 2020, 22, 1901505.	3.5	1
9	A Systematic Experimental and Computational Analysis of Commercially Available Aliphatic Polyesters. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3397.	2.5	4
10	A Perspective on Polylactic Acid-Based Polymers Use for Nanoparticles Synthesis and Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 259.	4.1	285
11	The influence of substituents on gelation and stacking order of oligoaramid â€ based supramolecular networks. <i>Soft Matter</i> , 2019, 15, 7250-7261.	2.7	5
12	Computational Assessment of the Pharmacological Profiles of Degradation Products of Chitosan. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 214.	4.1	35
13	Microcapsules: Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics ( <i>Adv. Mater. Technol.</i> 6/2019). <i>Advanced Materials Technologies</i> , 2019, 4, 1970032.	5.8	1
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.	4.5	27
15	Reactive Gelation Synthesis of Monodisperse Polymeric Capsules Using Droplet-Based Microfluidics. <i>Advanced Materials Technologies</i> , 2019, 4, 1900092.	5.8	9
16	Molecular Modeling for Nanomaterialâ€Biology Interactions: Opportunities, Challenges, and Perspectives. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 268.	4.1	55
17	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Nonâ€Viral Transfection Method. <i>Angewandte Chemie</i> , 2019, 131, 2841-2845.	2.0	0
18	An Unexpected Role of Hyaluronic Acid in Trafficking siRNA Across the Cellular Barrier: The First Biomimetic, Anionic, Nonâ€Viral Transfection Method. <i>Angewandte Chemie - International Edition</i> , 2019, 58, 2815-2819.	13.8	33

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19	Theoretical Investigation of Design Space for Multi Layer Drug Eluting Bioresorbable Suture Threads. <i>Current Pharmaceutical Biotechnology</i> , 2019, 20, 332-345.	1.6	3
20	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.	1.5	8
21	Synthetic design of growth factor sequestering extracellular matrix mimetic hydrogel for promoting in vivo bone formation. <i>Biomaterials</i> , 2018, 161, 190-202.	11.4	74
22	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.	5.2	12
23	A Methodologic Approach for the Selection of Bio-Resorbable Polymers in the Development of Medical Devices: The Case of Poly(l-lactide-co- $\mu$ -caprolactone). <i>Polymers</i> , 2018, 10, 851.	4.5	25
24	Scaffolds as Structural Tools for Bone-Targeted Drug Delivery. <i>Pharmaceutics</i> , 2018, 10, 122.	4.5	52
25	Gastroresistant oral peptide for fluorescence imaging of colonic inflammation. <i>Journal of Controlled Release</i> , 2017, 262, 118-126.	9.9	5
26	Modeling of Polyolefin Polymerization in Semibatch Slurry Reactors: Experiments and Simulations. <i>Macromolecular Reaction Engineering</i> , 2017, 11, 1600036.	1.5	10
27	Self-assembling amphiphilic PEGylated block copolymers obtained through RAFT polymerization for drug delivery applications. <i>Journal of Applied Polymer Science</i> , 2016, 133, .	2.6	13
28	Presumed LRP1-targeting transport peptide delivers $\beta$ -secretase inhibitor to neurons in vitro with limited efficiency. <i>Scientific Reports</i> , 2016, 6, 34297.	3.3	9
29	Contribution of Electrostatics in the Fibril Stability of a Model Ionic-Complementary Peptide. <i>Biomacromolecules</i> , 2015, 16, 3792-3801.	5.4	15
30	Mathematical Modeling of PLGA Microparticles: From Polymer Degradation to Drug Release. <i>Molecular Pharmaceutics</i> , 2014, 11, 4036-4048.	4.6	71
31	Tunable hydrogel nanoparticles release system for sustained combination therapies in the spinal cord. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 108, 169-177.	5.0	38
32	Bioresorbable Polymer Coated Drug Eluting Stent: A Model Study. <i>Molecular Pharmaceutics</i> , 2012, 9, 1898-1910.	4.6	35
33	Drug eluting sutures: A model for in vivo estimations. <i>International Journal of Pharmaceutics</i> , 2012, 429, 148-157.	5.2	27
34	Diffusion and Aggregation of Sodium Fluorescein in Aqueous Solutions. <i>Journal of Physical Chemistry B</i> , 2011, 115, 12896-12904.	2.6	85
35	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.	4.8	4
36	Methylprednisolone release from agar-Carbomer-based hydrogel: a promising tool for local drug delivery. <i>Chemical Papers</i> , 2011, 65, .	2.2	3

#	ARTICLE	IF	CITATIONS
37	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
38	Characterization and Degradation Behavior of Agarose/Chitosan Based Hydrogels for Drug Delivery Applications: Solute Effect. International Journal of Molecular Sciences, 2011, 12, 3394-3408.	4.1	32
39	Lidocaine release from polycaprolactone threads. Journal of Applied Polymer Science, 2010, 117, 3610-3614.	2.6	6
40	FBR for Polyolefin Production in Gas Phase: Validation of a Two-phase Compartmentalized Model by Comparison with CFD. Macromolecular Reaction Engineering, 0, , 2100058.	1.5	0