Rossella Dorati

List of Publications by Year
in descending order

86 papers	2,537 citations	236833 25 h-index	233338 45 g-index
88 all docs	88 docs citations	88 times ranked	3374 citing authors

#	Article	IF	Citations
1	Skin Wound Healing Process and New Emerging Technologies for Skin Wound Care and Regeneration. Pharmaceutics, 2020, 12, 735.	2.0	569
2	Biodegradable Scaffolds for Bone Regeneration Combined with Drug-Delivery Systems in Osteomyelitis Therapy. Pharmaceuticals, 2017, 10, 96.	1.7	120
3	The Microfluidic Technique and the Manufacturing of Polysaccharide Nanoparticles. Pharmaceutics, 2018, 10, 267.	2.0	73
4	Multivariate analysis for the optimization of microfluidics-assisted nanoprecipitation method intended for the loading of small hydrophilic drugs into PLGA nanoparticles. International Journal of Pharmaceutics, 2018, 536, 165-177.	2.6	69
5	GE11 Peptide as an Active Targeting Agent in Antitumor Therapy: A Minireview. Pharmaceutics, 2018, 10, 2.	2.0	69
6	Design of copolymer PLA-PCL electrospun matrix for biomedical applications. Reactive and Functional Polymers, 2018, 124, 77-89.	2.0	65
7	Hyaluronic Acid-Decorated Chitosan Nanoparticles for CD44-Targeted Delivery of Everolimus. International Journal of Molecular Sciences, 2018, 19, 2310.	1.8	58
8	Effect of porogen on the physico-chemical properties and degradation performance of PLGA scaffolds. Polymer Degradation and Stability, 2010, 95, 694-701.	2.7	57
9	Amphiphilic inulin-d-Î±-tocopherol succinate (INVITE) bioconjugates for biomedical applications. Carbohydrate Polymers, 2014, 103, 46-54.	5.1	52
10	The effect of Î³-irradiation on PLGA/PEG microspheres containing ovalbumin. Journal of Controlled Release, 2005, 107, 78-90.	4.8	46
11	Development of a peptide-containing chewing gum as a sustained release antiplaque antimicrobial delivery system. AAPS PharmSciTech, 2007, 8, E177-E185.	1.5	45
12	Chitosan glutamate nanoparticles for protein delivery: Development and effect on prolidase stability. Journal of Microencapsulation, 2007, 24, 553-564.	1.2	44
13	Investigation of the degradation behaviour of poly(ethylene glycol-co-d,l-lactide) copolymer. Polymer Degradation and Stability, 2007, 92, 1660-1668.	2.7	44
14	Î³-Irradiation of PEGd,lPLA and PEG-PLGA Multiblock Copolymers: I. Effect of Irradiation Doses. AAPS PharmSciTech, 2008, 9, 718-25.	1.5	43
15	Study on hydrophilicity and degradability of chitosan/polylactide-co-polycaprolactone nanofibre blend electrospun membrane. Carbohydrate Polymers, 2018, 199, 150-160.	5.1	42
16	Diaminobenzidine photoconversion is a suitable tool for tracking the intracellular location of fluorescently labelled nanoparticles at transmission electron microscopy. European Journal of Histochemistry, 2012, 56, 20.	0.6	40
17	Gentamicin Sulfate PEG-PLGA/PLGA-H Nanoparticles: Screening Design and Antimicrobial Effect Evaluation toward Clinic Bacterial Isolates. Nanomaterials, 2018, 8, 37.	1.9	40
18	Ex vivo evaluation of prolidase loaded chitosan nanoparticles for the enzyme replacement therapy. European Journal of Pharmaceutics and Biopharmaceutics, 2008, 70, 58-65.	2.0	38

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19	Release Profile of Gentamicin Sulfate from Polylactide-co-Polycaprolactone Electrospun Nanofiber Matrices. Pharmaceutics, 2019, 11, 161.	2.0	38
20	Gentamicin-Loaded Thermosetting Hydrogel and Moldable Composite Scaffold: Formulation Study and Biologic Evaluation. Journal of Pharmaceutical Sciences, 2017, 106, 1596-1607.	1.6	33
21	Design of smart GE11-PLGA/PEG-PLGA blend nanoparticulate platforms for parenteral administration of hydrophilic macromolecular drugs: synthesis, preparation and in vitro/ex vivo characterization. International Journal of Pharmaceutics, 2016, 511, 1112-1123.	2.6	31
22	Manufacturing of 3D-Printed Microfluidic Devices for the Synthesis of Drug-Loaded Liposomal Formulations. International Journal of Molecular Sciences, 2021, 22, 8064.	1.8	31
23	Stem Cells Grown in Osteogenic Medium on PLGA, PLGA/HA, and Titanium Scaffolds for Surgical Applications. Bioinorganic Chemistry and Applications, 2010, 2010, 1-12.	1.8	29
24	An experimental design approach to the preparation of pegylated polylactide-co-glicolide gentamicin loaded microparticles for local antibiotic delivery. Materials Science and Engineering C, 2016, 58, 909-917.	3.8	29
25	Shape-Memory Polymers Hallmarks and Their Biomedical Applications in the Form of Nanofibers. International Journal of Molecular Sciences, 2022, 23, 1290.	1.8	27
26	The Effect of Process Parameters on Alignment of Tubular Electrospun Nanofibers for Tissue Regeneration Purposes. Journal of Drug Delivery Science and Technology, 2020, 58, 101781.	1.4	26
27	Î³-irradiation of PEGd,lPLA and PEG-PLGA Multiblock Copolymers: II. Effect of Oxygen and EPR Investigation. AAPS PharmSciTech, 2008, 9, 1110-1118.	1.5	23
28	Design of 3D scaffolds for tissue engineering testing a tough polylactide-based graft copolymer. Materials Science and Engineering C, 2014, 34, 130-139.	3.8	23
29	Controlled delivery systems for tissue repair and regeneration. Journal of Drug Delivery Science and Technology, 2016, 32, 206-228.	1.4	23
30	Preliminary investigation on a new natural based poly(gammaâ€glutamic acid)/Chitosan bioink. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2020, 108, 2718-2732.	1.6	23
31	Site-directed PEGylation as successful approach to improve the enzyme replacement in the case of prolidase. International Journal of Pharmaceutics, 2008, 358, 230-237.	2.6	22
32	Formulation and stability evaluation of 3D alginate beads potentially useful for cumulusâ€“oocyte complexes culture. Journal of Microencapsulation, 2016, 33, 137-145.	1.2	21
33	Staggered Herringbone Microfluid Device for the Manufacturing of Chitosan/TPP Nanoparticles: Systematic Optimization and Preliminary Biological Evaluation. International Journal of Molecular Sciences, 2019, 20, 6212.	1.8	21
34	Graphene Nanoplatelets for the Development of Reinforced PLAâ€“PCL Electrospun Fibers as the Next-Generation of Biomedical Mats. Polymers, 2020, 12, 1390.	2.0	20
35	Biomaterials for Soft Tissue Repair and Regeneration: A Focus on Italian Research in the Field. Pharmaceutics, 2021, 13, 1341.	2.0	20
36	CD44-Targeted Carriers: The Role of Molecular Weight of Hyaluronic Acid in the Uptake of Hyaluronic Acid-Based Nanoparticles. Pharmaceuticals, 2022, 15, 103.	1.7	20

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37	Sub-unit vaccine against S. aureus-mediated infections: Set-up of nano-sized polymeric adjuvant. International Journal of Pharmaceutics, 2013, 452, 390-401.	2.6	19
38	Pirfenidone Ointment Modulates the Burn Wound Bed in C57BL/6 Mice by Suppressing Inflammatory Responses. Inflammation, 2019, 42, 45-53.	1.7	19
39	On-Chip Synthesis of Hyaluronic Acid-Based Nanoparticles for Selective Inhibition of CD44+ Human Mesenchymal Stem Cell Proliferation. Pharmaceutics, 2020, 12, 260.	2.0	19
40	A Short Term Quality Control Tool for Biodegradable Microspheres. AAPS PharmSciTech, 2014, 15, 530-541.	1.5	18
41	Tissue Engineered Esophageal Patch by Mesenchymal Stromal Cells: Optimization of Electrospun Patch Engineering. International Journal of Molecular Sciences, 2020, 21, 1764.	1.8	18
42	Improved cell growth by Bio-Oss/PLA scaffolds for use as a bone substitute. Technology and Health Care, 2009, 16, 401-413.	0.5	17
43	Microencapsulation of a hydrophilic model molecule through vibration nozzle and emulsion phase inversion technologies. Journal of Microencapsulation, 2013, 30, 559-570.	1.2	17
44	Intra-Articular Formulation of GE11-PLGA Conjugate-Based NPs for Dexamethasone Selective Targetingâ€"In Vitro Evaluation. International Journal of Molecular Sciences, 2018, 19, 2304.	1.8	17
45	Polyethylenglycol-co-poly-D,L-lactide copolymer based microspheres: Preparation, characterization and delivery of a model protein. Journal of Microencapsulation, 2008, 25, 330-338.	1.2	16
46	Natural based eumelanin nanoparticles functionalization and preliminary evaluation as carrier for gentamicin. Reactive and Functional Polymers, 2017, 114, 38-48.	2.0	16
47	Poly(gamma-glutamic acid) based thermosetting hydrogels for injection: Rheology and functional parameters evaluation. Reactive and Functional Polymers, 2019, 140, 93-102.	2.0	16
48	Biocompatible polymeric electrospun matrices: Microâ€"nanotopography effect on cell behavior. Journal of Applied Polymer Science, 2020, 137, 49223.	1.3	16
49	Adhesive microbeads for the targeting delivery of anticaries agents of vegetable origin. Food Chemistry, 2013, 138, 898-904.	4.2	15
50	Effect of Hydration on Physicochemical Properties of End-Capped PLGA. Advances in Biomaterials, 2014, 2014, 1-9.	0.2	15
51	Design of epidermal growth factor immobilization on 3D biocompatible scaffolds to promote tissue repair and regeneration. Scientific Reports, 2021, 11, 2629.	1.6	15
52	A preliminary study on the morphological and release properties of hydroxyapatiteâ€"alendronate composite materials. Journal of Microencapsulation, 2011, 28, 395-405.	1.2	14
53	Nanostructured Polymeric Functional Micelles for Drug Delivery Applications. Macromolecular Symposia, 2013, 334, 17-23.	0.4	14
54	Formulation and inÂvitro characterization of a composite biodegradable scaffold as antibiotic delivery system and regenerative device for bone. Journal of Drug Delivery Science and Technology, 2016, 35, 124-133.	1.4	14

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55	Design of a Bioabsorbable Multilayered Patch for Esophagus Tissue Engineering. Macromolecular Bioscience, 2017, 17, 1600426.	2.1	14
56	Enhanced Degradation of Lactide-co-Glycolide Polymer with Basic Nucleophilic Drugs. Advances in Pharmaceutics, 2015, 2015, 1-10.	0.5	14
57	Microfluidic encapsulation method to produce stable liposomes containing iohexol. Journal of Drug Delivery Science and Technology, 2019, 54, 101340.	1.4	13
58	Surface characterization by atomic force microscopy of sterilized PLGA microspheres. Journal of Microencapsulation, 2006, 23, 123-133.	1.2	12
59	InÂvitro characterization of an injectable in situ forming composite system for bone reconstruction. Polymer Degradation and Stability, 2015, 119, 151-158.	2.7	12
60	Ivermectin controlled release implants based on poly-D, l -lactide and poly-Îµ-caprolactone. Journal of Drug Delivery Science and Technology, 2018, 46, 101-110.	1.4	12
61	Development of a Topical 48-H Release Formulation as an Anti-scarring Treatment for Deep Partial-Thickness Burns. AAPS PharmSciTech, 2018, 19, 2264-2275.	1.5	12
62	Hyaluronic Acid-Based Nanoparticles for Protein Delivery: Systematic Examination of Microfluidic Production Conditions. Pharmaceutics, 2021, 13, 1565.	2.0	12
63	Improved cell growth by Bio-Oss/PLA scaffolds for use as a bone substitute. Technology and Health Care, 2008, 16, 401-13.	0.5	12
64	Induction of anin vitroreversible hypometabolism through chitosan-based nanoparticles. Journal of Microencapsulation, 2011, 28, 229-239.	1.2	11
65	Long-Term Effect of Gamma Irradiation on the Functional Properties and Cytocompatibility of Multiblock Co-Polymer Films. Journal of Biomaterials Science, Polymer Edition, 2012, 23, 2223-2240.	1.9	11
66	Stability Evaluation of Ivermectin-Loaded Biodegradable Microspheres. AAPS PharmSciTech, 2015, 16, 1129-1139.	1.5	11
67	Polyethylene Glycol-Poly-Lactide-co-Glycolide Block Copolymer-Based Nanoparticles as a Potential Tool for Off-Label Use of N-Acetylcysteine in the Treatment of Diastrophic Dysplasia. Journal of Pharmaceutical Sciences, 2017, 106, 3631-3641.	1.6	11
68	Tubular Electrospun Vancomycin-Loaded Vascular Grafts: Formulation Study and Physicochemical Characterization. Polymers, 2021, 13, 2073.	2.0	10
69	The safety of tattoo inks: Possible options for a common regulatory framework. Science of the Total Environment, 2019, 651, 634-637.	3.9	9
70	Microfluidic-assisted synthesis of multifunctional iodinated contrast agent polymeric nanoplatforms. International Journal of Pharmaceutics, 2021, 599, 120447.	2.6	9
71	A study focused on macrophages modulation induced by the Polymeric Electrospun Matrices (EL-Ms) for application in tissue regeneration: In vitro proof of concept. International Journal of Pharmaceutics, 2021, 603, 120712.	2.6	9
72	A Design of Experiment (DOE) approach to correlate PLA-PCL electrospun fibers diameter and mechanical properties for soft tissue regeneration purposes. Journal of Drug Delivery Science and Technology, 2022, 68, 103060.	1.4	8

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73	Preparation and Characterization of an Advanced Medical Device for Bone Regeneration. AAPS PharmSciTech, 2014, 15, 75-82.	1.5	7
74	Smart Biodegradable Nanoparticulate Materials: Poly-lactide-co-glycolide Functionalization with Selected Peptides. Current Nanoscience, 2016, 12, 347-356.	0.7	7
75	CNA-loaded PLGA nanoparticles improve humoral response againstS. aureus-mediated infections in a mouse model: subcutaneous vs. nasal administration strategy. Journal of Microencapsulation, 2016, 33, 750-762.	1.2	6
76	Emerging and re-emerging infectious disease in otorhinolaryngology. Acta Otorhinolaryngologica Italica, 2018, 38, S1-S106.	0.7	6
77	High Efficiency Vibrational Technology (HEVT) for Cell Encapsulation in Polymeric Microcapsules. Pharmaceutics, 2020, 12, 469.	2.0	6
78	Tobramycin Supplemented Small-Diameter Vascular Grafts for Local Antibiotic Delivery: A Preliminary Formulation Study. International Journal of Molecular Sciences, 2021, 22, 13557.	1.8	5
79	Electrospun tubular vascular grafts to replace damaged peripheral arteries: A preliminary formulation study. International Journal of Pharmaceutics, 2021, 596, 120198.	2.6	4
80	Polymer Scaffolds for Bone Tissue Regeneration. Studies in Mechanobiology, Tissue Engineering and Biomaterials, 2011, , 259-285.	0.7	3
81	Design of 3<scp>D</scp> Hybrid Composite Scaffolds: Effect of Composition on Scaffold Structure and Cell Proliferation. Macromolecular Symposia, 2013, 334, 106-116.	0.4	3
82	Engineered Full Thickness Electrospun Scaffold for Esophageal Tissue Regeneration: From In Vitro to In Vivo Approach. Pharmaceutics, 2022, 14, 252.	2.0	3
83	Shape memory engineered scaffold (SMES) for potential repair of neural tube defects. Reactive and Functional Polymers, 2022, 173, 105223.	2.0	3
84	Nanotechnology, a booster for the multitarget drug verteporfin. Journal of Drug Delivery Science and Technology, 2021, 64, 102562.	1.4	2
85	Design and optimization of 3D-bioprinted scaffold framework based on a new natural polymeric bioink. Journal of Pharmacy and Pharmacology, 2022, 74, 57-66.	1.2	1
86	Optimization of FDM 3D printing process parameters to produce haemodialysis curcumin-loaded vascular grafts. Drug Delivery and Translational Research, 2021, , 1.	3.0	1