Serena Danti

List of Publications by Citations

112 papers	2,339 citations	27 h-index	44 g-index
120 ext. papers	2,864 ext. citations	5.3 avg, IF	5.28 L-index

#	Paper	IF	Citations
112	Boron nitride nanotubes: biocompatibility and potential spill-over in nanomedicine. *Small*, **2013**, 9, 1672-85	11	167
111	Enhancement of neurite outgrowth in neuronal-like cells following boron nitride nanotube-mediated stimulation. *ACS Nano*, **2010**, 4, 6267-77	16.7	160
110	Assessing cytotoxicity of boron nitride nanotubes: Interference with the MTT assay. *Biochemical and Biophysical Research Communications*, **2010**, 394, 405-11	3.4	144
109	Investigation of interactions between poly-L-lysine-coated boron nitride nanotubes and C2C12 cells: up-take, cytocompatibility, and differentiation. *International Journal of Nanomedicine*, **2010**, 5, 285-98	7.3	81
108	Biocompatibility of boron nitride nanotubes: an up-date of in vivo toxicological investigation. *International Journal of Pharmaceutics*, **2013**, 444, 85-8	6.5	78
107	Additive Manufacturing Approaches for Hydroxyapatite-Reinforced Composites. *Advanced Functional Materials*, **2019**, 29, 1903055	15.6	70
106	Pilot in vivo toxicological investigation of boron nitride nanotubes. *International Journal of Nanomedicine*, **2012**, 7, 19-24	7.3	68
105	Biomaterial-Based Implantable Devices for Cancer Therapy. *Advanced Healthcare Materials*, **2017**, 6, 1600766	10.6	64
104	Use of autologous human mesenchymal stromal cell/fibrin clot constructs in upper limb non-unions: long-term assessment. *PLoS ONE*, **2013**, 8, e73893	3.7	60
103	Bio-Based Electrospun Fibers for Wound Healing. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	59
102	Barium Titanate Nanoparticles: Highly Cytocompatible Dispersions in Glycol-chitosan and Doxorubicin Complexes for Cancer Therapy. *Nanoscale Research Letters*, **2010**, 5, 1093-101	5	57
101	Lithium doped zinc oxide based flexible piezoelectric-triboelectric hybrid nanogenerator. *Nano Energy*, **2019**, 61, 327-336	17.1	51
100	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. *Biofabrication*, **2015**, 7, 025005	10.5	51
99	Chitin Nanofibrils and Nanolignin as Functional Agents in Skin Regeneration. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	47
98	Morpho-functional characterization of human mesenchymal stem cells from umbilical cord blood for potential uses in regenerative medicine. *Stem Cells and Development*, **2009**, 18, 293-305	4.4	46
97	Electrospinning Piezoelectric Fibers for Biocompatible Devices. *Advanced Healthcare Materials*, **2020**, 9, e1901287	10.1	46
96	Morphological evaluation of bioartificial hydrogels as potential tissue engineering scaffolds. *Journal of Materials Science: Materials in Medicine*, **2004**, 15, 1309-13	4.5	45

95	Design, fabrication and characterization of composite piezoelectric ultrafine fibers for cochlear stimulation. *Materials and Design*, **2017**, 122, 206-219	8.1	42
94	Preparation of stable dispersion of barium titanate nanoparticles: Potential applications in biomedicine. *Colloids and Surfaces B: Biointerfaces*, **2010**, 76, 535-43	6	37
93	Nanoparticle drug delivery systems for inner ear therapy: An overview. *Journal of Drug Delivery Science and Technology*, **2017**, 39, 28-35	4.5	33
92	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. *Drug Delivery and Translational Research*, **2020**, 10, 706-720	6.2	33
91	Boron nitride nanotubes and primary human osteoblasts: in vitro compatibility and biological interactions under low frequency ultrasound stimulation. *Nanotechnology*, **2013**, 24, 465102	3.4	33
90	Poly(vinyl alcohol)/gelatin Hydrogels Cultured with HepG2 Cells as a 3D Model of Hepatocellular Carcinoma: A Morphological Study. *Journal of Functional Biomaterials*, **2015**, 6, 16-32	4.8	32
89	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. *Biomatter*, **2014**, 4, e955386		32
88	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	32
87	Polysaccharide hydrogels for multiscale 3D printing of pullulan scaffolds. *Materials and Design*, **2019**, 165, 107566	8.1	32
86	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. *Journal of Materials Science: Materials in Medicine*, **2007**, 18, 1399-405	4.5	27
85	Boron Nitride Nanotubes: Production, Properties, Biological Interactions and Potential Applications as Therapeutic Agents in Brain Diseases. *Current Nanoscience*, **2011**, 7, 94-109	1.4	25
84	Properties and Skin Compatibility of Films Based on Poly(Lactic Acid) (PLA) Bionanocomposites Incorporating Chitin Nanofibrils (CN). *Journal of Functional Biomaterials*, **2020**, 11,	4.8	24
83	Flat Die Extruded Biocompatible Poly(Lactic Acid) (PLA)/Poly(Butylene Succinate) (PBS) Based Films. *Polymers*, **2019**, 11,	4.5	24
82	Bovine bone matrix/poly(l-lactic-co-ε-caprolactone)/gelatin hybrid scaffold (SmartBone) for maxillary sinus augmentation: A histologic study on bone regeneration. *International Journal of Pharmaceutics*, **2017**, 523, 534-544	6.5	24
81	Multi-Compartment 3D-Cultured Organ-on-a-Chip: Towards a Biomimetic Lymph Node for Drug Development. *Pharmaceutics*, **2020**, 12,	6.4	22
80	Chitin and lignin to produce biocompatible tissues **2018**, 01,		22
79	Biodegradable Polymeric Micro/Nano-Structures with Intrinsic Antifouling/Antimicrobial Properties: Relevance in Damaged Skin and Other Biomedical Applications. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	22
78	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	21

77	Plasticity of human dental pulp stromal cells with bioengineering platforms: a versatile tool for regenerative medicine. *Micron*, **2014**, 67, 155-168	2.3	21
76	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. *Hearing, Balance and Communication*, **2015**, 13, 133-147	0.7	21
75	Liver Cancer: Current and Future Trends Using Biomaterials. *Cancers*, **2019**, 11,	6.6	18
74	Recent advances of polymer-based piezoelectric composites for biomedical applications. *Journal of the Mechanical Behavior of Biomedical Materials*, **2021**, 122, 104669	4.1	18
73	Wave Propagation and Energy Dissipation in Collagen Molecules. *ACS Biomaterials Science and Engineering*, **2020**, 6, 1367-1374	5.5	16
72	A micro/nanoscale surface mechanical study on morpho-functional changes in multilineage-differentiated human mesenchymal stem cells. *Macromolecular Bioscience*, **2007**, 7, 589-98	5.5	16
71	Waste Autochthonous Tuscan Olive Leaves (var.) as Antioxidant Source for Biomedicine. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	16
70	Boron nitride nanotube-functionalised myoblast/microfibre constructs: a nanotech-assisted tissue-engineered platform for muscle stimulation. *Journal of Tissue Engineering and Regenerative Medicine*, **2015**, 9, 847-51	4.4	15
69	Development of tissue-engineered substitutes of the ear ossicles: PORP-shaped poly(propylene fumarate)-based scaffolds cultured with human mesenchymal stromal cells. *Journal of Biomedical Materials Research - Part A*, **2010**, 92, 1343-56	5.4	15
68	Preparation of Innovative Skin Compatible Films to Release Polysaccharides for Biobased Beauty Masks. *Cosmetics*, **2018**, 5, 70	2.7	15
67	Skin-Compatible Biobased Beauty Masks Prepared by Extrusion. *Journal of Functional Biomaterials*, **2020**, 11,	4.8	15
66	Lithium niobate nanoparticles as biofunctional interface material for inner ear devices. *Biointerphases*, **2020**, 15, 031004	1.8	14
65	Novel biological/biohybrid prostheses for the ossicular chain: fabrication feasibility and preliminary functional characterization. *Biomedical Microdevices*, **2009**, 11, 783-93	3.7	14
64	Electrospun ZnO/Poly(Vinylidene Fluoride-Trifluoroethylene) Scaffolds for Lung Tissue Engineering. *Tissue Engineering - Part A*, **2020**, 26, 1312-1331	3.9	14
63	Pore Size Distribution and Blend Composition Affect In Vitro Prevascularized Bone Matrix Formation on Poly(Vinyl Alcohol)/Gelatin Sponges. *Macromolecular Materials and Engineering*, **2017**, 302, 1700300	3.9	13
62	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. *Journal of Materials Science: Materials in Medicine*, **2006**, 17, 1211-7	4.5	13
61	Piezo-tribo dual effect hybrid nanogenerators for health monitoring. *Nano Energy*, **2021**, 82, 105691	17.1	11
60	Preliminary Studies on an Innovative Bioactive Skin Soluble Beauty Mask Made by Combining Electrospinning and Dry Powder Impregnation. *Cosmetics*, **2020**, 7, 96	2.7	10

59	Mechanics of Mineralized Collagen Fibrils upon Transient Loads. *ACS Nano*, **2020**, 14, 8307-8316	16.7	10
58	Ossicular replacement prostheses from banked bone with ergonomic and functional geometry. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2017**, 105, 2495-2506	3.5	10
57	Growing bone tissue-engineered niches with graded osteogenicity: an in vitro method for biomimetic construct assembly. *Tissue Engineering - Part C: Methods*, **2013**, 19, 911-24	2.9	10
56	Morphological features of ovine embryonic lung fibroblasts cultured on different bioactive scaffolds. *Journal of Biomedical Materials Research - Part A*, **2006**, 76, 214-21	5.4	10
55	De novo topology optimization of total ossicular replacement prostheses. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 103, 103541	4.1	10
54	Surface-Modified Nanostructured Piezoelectric Device as a Cost-Effective Transducer for Energy and Biomedicine. *Energy Technology*, **2019**, 7, 1800767	3.5	10
53	Histologic characterization of human ear ossicles for the development of tissue-engineered replacements. *Otology and Neurotology*, **2012**, 33, 1458-68	2.6	8
52	Four-Dimensional (Bio-)printing: A Review on Stimuli-Responsive Mechanisms and Their Biomedical Suitability. *Applied Sciences (Switzerland)*, **2020**, 10, 9143	2.6	8
51	Chitin nanofibrils in renewable materials for packaging and personal care applications. *Advanced Materials Letters*, **2019**, 10, 425-430	2.4	8
50	Tympanic Membrane Collagen Expression by Dynamically Cultured Human Mesenchymal Stromal Cell/Star-Branched Poly(□Caprolactone) Nonwoven Constructs. *Applied Sciences (Switzerland)*, **2020**, 10, 3043	2.6	7
49	3D fiber deposited polymeric scaffolds for external auditory canal wall. *Journal of Materials Science: Materials in Medicine*, **2018**, 29, 63	4.5	7
48	Applications of Piezoelectricity in Nanomedicine. *Nanomedicine and Nanotoxicology*, **2012**, 213-238	0.3	7
47	Liquid and Solid Functional Bio-Based Coatings. *Polymers*, **2021**, 13,	4.5	7
46	Cellulose-Based Fibrous Materials From Bacteria to Repair Tympanic Membrane Perforations. *Frontiers in Bioengineering and Biotechnology*, **2021**, 9, 669863	5.8	7
45	Molecular origin of viscoelasticity in mineralized collagen fibrils. *Biomaterials Science*, **2021**, 9, 3390-3400	7.4	7
44	Decentralized triboelectric electronic health monitoring flexible microdevice. *Medical Devices & Sensors*, **2020**, 3, e10103	1.6	6
43	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. *Nature Communications*, **2020**, 11, 5991	17.4	6
42	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. *Pharmaceutics*, **2021**, 13,	6.4	6

41	Cellulose-based fiber spinning processes using ionic liquids. *Cellulose*, **2022**, 29, 3079	5.5	6
40	Poly(lactic acid)-Based Electrospun Fibrous Structures for Biomedical Applications. *Applied Sciences (Switzerland)*, **2022**, 12, 3192	2.6	6
39	Multifunctional Coatings for Robotic Implanted Device. *International Journal of Molecular Sciences*, **2019**, 20,	6.3	5
38	Good manufacturing practices--grade preformed ossicular prostheses from banked bone via computer numerically controlled micromilling. *Annals of Otology, Rhinology and Laryngology*, **2011**, 120, 9-16	2.1	5
37	Electrosprayed Shrimp and Mushroom Nanochitins on Cellulose Tissue for Skin Contact Application. *Molecules*, **2021**, 26,	4.8	5
36	Tongue Rehabilitation Device for Dysphagic Patients. *Sensors*, **2019**, 19,	3.8	5
35	3D Models of Pancreatic Ductal Adenocarcinoma via Tissue Engineering. *Methods in Molecular Biology*, **2019**, 1882, 81-95	1.4	5
34	Raman spectroscopy of osteosarcoma cells. *Physical Biology*, **2018**, 16, 016007	3	5
33	Detection and localization of gold nanoshells inside cells: near-field approximation. *Applied Optics*, **2016**, 55, D11-D16	0.2	4
32	Evaluation of cytocompatibility and cell response to boron nitride nanotubes. *Methods in Molecular Biology*, **2012**, 811, 193-206	1.4	4
31	Polymer Based Triboelectric Nanogenerator for Cost-Effective Green Energy Generation and Implementation of Surface-Charge Engineering. *Energy Technology*, **2021**, 9, 2001088	3.5	4
30	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. *Advanced Healthcare Materials*, **2021**, 10, e2002082	10.1	4
29	Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications. *Materials*, **2021**, 14,	3.5	4
28	Mesenchymal Stromal Cell Culture and Delivery in Autologous Conditions: A Smart Approach for Orthopedic Applications. *Journal of Visualized Experiments*, **2016**,	1.6	3
27	Processing large-diameter poly(L-lactic acid) microfiber mesh/mesenchymal stromal cell constructs via resin embedding: an efficient histologic method. *Biomedical Materials (Bristol)*, **2014**, 9, 045007	3.5	3
26	Neuron Compatibility and Antioxidant Activity of Barium Titanate and Lithium Niobate Nanoparticles.. *International Journal of Molecular Sciences*, **2022**, 23,	6.3	3
25	Biomaterial-based in vitro models for pancreatic cancer **2020**, 235-249		3
24	Combined Antimicrobial Effect of Bio-Waste Olive Leaf Extract and Remote Cold Atmospheric Plasma Effluent. *Molecules*, **2021**, 26,	4.8	3

23	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. *Applied Sciences (Switzerland)*, **2021**, 11, 4006	2.6	3
22	Applications of bioresorbable polymers in skin and eardrum **2017**, 423-444		2
21	Preformed homologous cortical bone prostheses for ossiculoplasty: preliminary clinical results in eighteen patients. *Clinical Otolaryngology*, **2012**, 37, 415-21	1.8	2
20	Applications of Ceramic Nanoparticles in Nanomedicine. *Materials Science Forum*, **2012**, 706-709, 467-471	0.4	2
19	Piezoelectric Signals in Vascularized Bone Regeneration. *Biomolecules*, **2021**, 11,	5.9	2
18	Overview of Agro-Food Waste and By-Products Valorization for Polymer Synthesis and Modification for Bio-Composite Production. *Proceedings (mdpi)*, **2021**, 69, 22	0.3	2
17	Poly(vinyl alcohol)/Gelatin Scaffolds Allow Regeneration of Nasal Tissues. *Applied Sciences (Switzerland)*, **2021**, 11, 3651	2.6	2
16	An Osteosarcoma Model by 3D Printed Polyurethane Scaffold and In Vitro Generated Bone Extracellular Matrix.. *Cancers*, **2022**, 14,	6.6	2
15	Boron nitride nanotubes as nanotransducers **2016**, 123-138		1
14	Adhesion and Friction Contributions to Cell Motility. *Nanoscience and Technology*, **2015**, 669-697	0.6	1
13	Bone Tissue Engineering: Natural Origination or Synthetic Polymeric Scaffolds?. *Advanced Materials Research*, **2006**, 15-17, 65-70	0.5	1
12	Experimental Assessment of Cuff Pressures on the Walls of a Trachea-Like Model Using Force Sensing Resistors: Insights for Patient Management in Intensive Care Unit Settings.. *Sensors*, **2022**, 22,	3.8	1
11	Bioartificial Sponges for Auricular Cartilage Engineering. *Lecture Notes in Bioengineering*, **2020**, 191-209	0.8	1
10	Ear Tissue Engineering **2019**, 270-285		1
9	Mimicking the Human Tympanic Membrane: the Significance of Geometry		1
8	Investigating the microenvironmental effects of scaffold chemistry and topology in human mesenchymal stromal cell/polymeric hollow microfiber constructs **2016**,		1
7	Combined Application of Patient-Derived Cells and Biomaterials as 3D In Vitro Tumor Models. *Cancers*, **2022**, 14, 2503	6.6	1
6	Flexible Bielectrode-Based Highly Sensitive Triboelectric Motion Sensor: A Sustainable and Smart Electronic Material. *Energy Technology*,2100662	3.5	0

5	Regenerative therapies for tympanic membrane. *Progress in Materials Science*, **2022**, 127, 100942	42.2	0
4	Applications of bioresorbable polymers in the skeletal systems (cartilages, tendons, bones) **2017**, 391-422		
3	Stem Cells and Nanotechnology **2020**, 271-300		
2	Biodegradable Nanomaterials for Cosmetic and Medical Use **2021**, 71-82		
1	Biomaterials and devices for immunotherapy **2022**, 97-133		