

Serena Danti

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	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.. <i>Sensors</i> , 2022 , 22,	3.8	1
111	Neuron Compatibility and Antioxidant Activity of Barium Titanate and Lithium Niobate Nanoparticles.. <i>International Journal of Molecular Sciences</i> , 2022 , 23,	6.3	3
110	Biomaterials and devices for immunotherapy 2022 , 97-133		
109	Cellulose-based fiber spinning processes using ionic liquids. <i>Cellulose</i> , 2022 , 29, 3079	5.5	6
108	Poly(lactic acid)-Based Electrospun Fibrous Structures for Biomedical Applications. <i>Applied Sciences (Switzerland)</i> , 2022 , 12, 3192	2.6	6
107	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , 2022 , 127, 100942	42.2	0
106	An Osteosarcoma Model by 3D Printed Polyurethane Scaffold and In Vitro Generated Bone Extracellular Matrix.. <i>Cancers</i> , 2022 , 14,	6.6	2
105	Combined Application of Patient-Derived Cells and Biomaterials as 3D In Vitro Tumor Models. <i>Cancers</i> , 2022 , 14, 2503	6.6	1
104	Piezoelectric Signals in Vascularized Bone Regeneration. <i>Biomolecules</i> , 2021 , 11,	5.9	2
103	Overview of Agro-Food Waste and By-Products Valorization for Polymer Synthesis and Modification for Bio-Composite Production. <i>Proceedings (mdpi)</i> , 2021 , 69, 22	0.3	2
102	Liquid and Solid Functional Bio-Based Coatings. <i>Polymers</i> , 2021 , 13,	4.5	7
101	Biodegradable Nanomaterials for Cosmetic and Medical Use 2021 , 71-82		
100	Combined Antimicrobial Effect of Bio-Waste Olive Leaf Extract and Remote Cold Atmospheric Plasma Effluent. <i>Molecules</i> , 2021 , 26,	4.8	3
99	Poly(vinyl alcohol)/Gelatin Scaffolds Allow Regeneration of Nasal Tissues. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 3651	2.6	2
98	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2021 , 11, 4006	2.6	3
97	Piezo-tribo dual effect hybrid nanogenerators for health monitoring. <i>Nano Energy</i> , 2021 , 82, 105691	17.1	11
96	Polymer Based Triboelectric Nanogenerator for Cost-Effective Green Energy Generation and Implementation of Surface-Charge Engineering. <i>Energy Technology</i> , 2021 , 9, 2001088	3.5	4

95	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. <i>Advanced Healthcare Materials</i> , 2021 , 10, e2002082	10.1	4
94	Cellulose-Based Fibrous Materials From Bacteria to Repair Tympanic Membrane Perforations. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 669863	5.8	7
93	Electrosprayed Shrimp and Mushroom Nanochitins on Cellulose Tissue for Skin Contact Application. <i>Molecules</i> , 2021 , 26,	4.8	5
92	Molecular origin of viscoelasticity in mineralized collagen fibrils. <i>Biomaterials Science</i> , 2021 , 9, 3390-3400	7.4	7
91	Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications. <i>Materials</i> , 2021 , 14,	3.5	4
90	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. <i>Pharmaceutics</i> , 2021 , 13,	6.4	6
89	Recent advances of polymer-based piezoelectric composites for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021 , 122, 104669	4.1	18
88	Preliminary Studies on an Innovative Bioactive Skin Soluble Beauty Mask Made by Combining Electrospinning and Dry Powder Impregnation. <i>Cosmetics</i> , 2020 , 7, 96	2.7	10
87	Tympanic Membrane Collagen Expression by Dynamically Cultured Human Mesenchymal Stromal Cell/Star-Branched Poly(ϵ -Caprolactone) Nonwoven Constructs. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 3043	2.6	7
86	Decentralized triboelectric electronic health monitoring flexible microdevice. <i>Medical Devices & Sensors</i> , 2020 , 3, e10103	1.6	6
85	Lithium niobate nanoparticles as biofunctional interface material for inner ear devices. <i>Biointerphases</i> , 2020 , 15, 031004	1.8	14
84	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	21
83	Mechanics of Mineralized Collagen Fibrils upon Transient Loads. <i>ACS Nano</i> , 2020 , 14, 8307-8316	16.7	10
82	Ciprofloxacin-loaded polymeric nanoparticles incorporated electrospun fibers for drug delivery in tissue engineering applications. <i>Drug Delivery and Translational Research</i> , 2020 , 10, 706-720	6.2	33
81	Wave Propagation and Energy Dissipation in Collagen Molecules. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 1367-1374	5.5	16
80	Properties and Skin Compatibility of Films Based on Poly(Lactic Acid) (PLA) Bionanocomposites Incorporating Chitin Nanofibrils (CN). <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	24
79	Four-Dimensional (Bio-)printing: A Review on Stimuli-Responsive Mechanisms and Their Biomedical Suitability. <i>Applied Sciences (Switzerland)</i> , 2020 , 10, 9143	2.6	8
78	Multi-Compartment 3D-Cultured Organ-on-a-Chip: Towards a Biomimetic Lymph Node for Drug Development. <i>Pharmaceutics</i> , 2020 , 12,	6.4	22

77	Stem Cells and Nanotechnology 2020 , 271-300		
76	Bioartificial Sponges for Auricular Cartilage Engineering. <i>Lecture Notes in Bioengineering</i> , 2020 , 191-209	0.8	1
75	Electrospinning Piezoelectric Fibers for Biocompatible Devices. <i>Advanced Healthcare Materials</i> , 2020 , 9, e1901287	10.1	46
74	De novo topology optimization of total ossicular replacement prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 103, 103541	4.1	10
73	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. <i>Nature Communications</i> , 2020 , 11, 5991	17.4	6
72	Biomaterial-based in vitro models for pancreatic cancer 2020 , 235-249		3
71	Bio-Based Electrospun Fibers for Wound Healing. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	59
70	Biodegradable Polymeric Micro/Nano-Structures with Intrinsic Antifouling/Antimicrobial Properties: Relevance in Damaged Skin and Other Biomedical Applications. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	22
69	Electrospun ZnO/Poly(Vinylidene Fluoride-Trifluoroethylene) Scaffolds for Lung Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2020 , 26, 1312-1331	3.9	14
68	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	32
67	Skin-Compatible Biobased Beauty Masks Prepared by Extrusion. <i>Journal of Functional Biomaterials</i> , 2020 , 11,	4.8	15
66	Chitin Nanofibrils and Nanolignin as Functional Agents in Skin Regeneration. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	47
65	Lithium doped zinc oxide based flexible piezoelectric-triboelectric hybrid nanogenerator. <i>Nano Energy</i> , 2019 , 61, 327-336	17.1	51
64	Additive Manufacturing Approaches for Hydroxyapatite-Reinforced Composites. <i>Advanced Functional Materials</i> , 2019 , 29, 1903055	15.6	70
63	Multifunctional Coatings for Robotic Implanted Device. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	5
62	Flat Die Extruded Biocompatible Poly(Lactic Acid) (PLA)/Poly(Butylene Succinate) (PBS) Based Films. <i>Polymers</i> , 2019 , 11,	4.5	24
61	Chitin nanofibrils in renewable materials for packaging and personal care applications. <i>Advanced Materials Letters</i> , 2019 , 10, 425-430	2.4	8
60	Ear Tissue Engineering 2019 , 270-285		1

59	Tongue Rehabilitation Device for Dysphagic Patients. <i>Sensors</i> , 2019 , 19,	3.8	5
58	Liver Cancer: Current and Future Trends Using Biomaterials. <i>Cancers</i> , 2019 , 11,	6.6	18
57	Waste Autochthonous Tuscan Olive Leaves (var.) as Antioxidant Source for Biomedicine. <i>International Journal of Molecular Sciences</i> , 2019 , 20,	6.3	16
56	Polysaccharide hydrogels for multiscale 3D printing of pullulan scaffolds. <i>Materials and Design</i> , 2019 , 165, 107566	8.1	32
55	3D Models of Pancreatic Ductal Adenocarcinoma via Tissue Engineering. <i>Methods in Molecular Biology</i> , 2019 , 1882, 81-95	1.4	5
54	Surface-Modified Nanostructured Piezoelectric Device as a Cost-Effective Transducer for Energy and Biomedicine. <i>Energy Technology</i> , 2019 , 7, 1800767	3.5	10
53	3D fiber deposited polymeric scaffolds for external auditory canal wall. <i>Journal of Materials Science: Materials in Medicine</i> , 2018 , 29, 63	4.5	7
52	Preparation of Innovative Skin Compatible Films to Release Polysaccharides for Biobased Beauty Masks. <i>Cosmetics</i> , 2018 , 5, 70	2.7	15
51	Chitin and lignin to produce biocompatible tissues 2018 , 01,		22
50	Raman spectroscopy of osteosarcoma cells. <i>Physical Biology</i> , 2018 , 16, 016007	3	5
49	Nanoparticle drug delivery systems for inner ear therapy: An overview. <i>Journal of Drug Delivery Science and Technology</i> , 2017 , 39, 28-35	4.5	33
48	Design, fabrication and characterization of composite piezoelectric ultrafine fibers for cochlear stimulation. <i>Materials and Design</i> , 2017 , 122, 206-219	8.1	42
47	Pore Size Distribution and Blend Composition Affect In Vitro Prevascularized Bone Matrix Formation on Poly(Vinyl Alcohol)/Gelatin Sponges. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700300	3.9	13
46	Applications of bioresorbable polymers in the skeletal systems (cartilages, tendons, bones) 2017 , 391-422		
45	Applications of bioresorbable polymers in skin and eardrum 2017 , 423-444		2
44	Bovine bone matrix/poly(L-lactic-co-ε-caprolactone)/gelatin hybrid scaffold (SmartBone) for maxillary sinus augmentation: A histologic study on bone regeneration. <i>International Journal of Pharmaceutics</i> , 2017 , 523, 534-544	6.5	24
43	Ossicular replacement prostheses from banked bone with ergonomic and functional geometry. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2495-2506	3.5	10
42	Biomaterial-Based Implantable Devices for Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600766		64

41	Boron nitride nanotubes as nanotransducers 2016 , 123-138		1
40	Mesenchymal Stromal Cell Culture and Delivery in Autologous Conditions: A Smart Approach for Orthopedic Applications. <i>Journal of Visualized Experiments</i> , 2016 ,	1.6	3
39	Detection and localization of gold nanoshells inside cells: near-field approximation. <i>Applied Optics</i> , 2016 , 55, D11-D16	0.2	4
38	Investigating the microenvironmental effects of scaffold chemistry and topology in human mesenchymal stromal cell/polymeric hollow microfiber constructs 2016 ,		1
37	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. <i>Biofabrication</i> , 2015 , 7, 025005	10.5	51
36	Boron nitride nanotube-functionalised myoblast/microfibre constructs: a nanotech-assisted tissue-engineered platform for muscle stimulation. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2015 , 9, 847-51	4.4	15
35	Tissue engineering of the tympanic membrane using electrospun PEOT/PBT copolymer scaffolds: A morphological in vitro study. <i>Hearing, Balance and Communication</i> , 2015 , 13, 133-147	0.7	21
34	Poly(vinyl alcohol)/gelatin Hydrogels Cultured with HepG2 Cells as a 3D Model of Hepatocellular Carcinoma: A Morphological Study. <i>Journal of Functional Biomaterials</i> , 2015 , 6, 16-32	4.8	32
33	Adhesion and Friction Contributions to Cell Motility. <i>Nanoscience and Technology</i> , 2015 , 669-697	0.6	1
32	Plasticity of human dental pulp stromal cells with bioengineering platforms: a versatile tool for regenerative medicine. <i>Micron</i> , 2014 , 67, 155-168	2.3	21
31	Processing large-diameter poly(L-lactic acid) microfiber mesh/mesenchymal stromal cell constructs via resin embedding: an efficient histologic method. <i>Biomedical Materials (Bristol)</i> , 2014 , 9, 045007	3.5	3
30	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. <i>Biomatter</i> , 2014 , 4, e955386		32
29	Boron nitride nanotubes and primary human osteoblasts: in vitro compatibility and biological interactions under low frequency ultrasound stimulation. <i>Nanotechnology</i> , 2013 , 24, 465102	3.4	33
28	Boron nitride nanotubes: biocompatibility and potential spill-over in nanomedicine. <i>Small</i> , 2013 , 9, 1672-85		167
27	Biocompatibility of boron nitride nanotubes: an up-date of in vivo toxicological investigation. <i>International Journal of Pharmaceutics</i> , 2013 , 444, 85-8	6.5	78
26	Growing bone tissue-engineered niches with graded osteogenicity: an in vitro method for biomimetic construct assembly. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 911-24	2.9	10
25	Use of autologous human mesenchymal stromal cell/fibrin clot constructs in upper limb non-unions: long-term assessment. <i>PLoS ONE</i> , 2013 , 8, e73893	3.7	60
24	Preformed homologous cortical bone prostheses for ossiculoplasty: preliminary clinical results in eighteen patients. <i>Clinical Otolaryngology</i> , 2012 , 37, 415-21	1.8	2

23	Applications of Ceramic Nanoparticles in Nanomedicine. <i>Materials Science Forum</i> , 2012 , 706-709, 467-471	0.4	2
22	Pilot in vivo toxicological investigation of boron nitride nanotubes. <i>International Journal of Nanomedicine</i> , 2012 , 7, 19-24	7.3	68
21	Applications of Piezoelectricity in Nanomedicine. <i>Nanomedicine and Nanotoxicology</i> , 2012 , 213-238	0.3	7
20	Histologic characterization of human ear ossicles for the development of tissue-engineered replacements. <i>Otology and Neurotology</i> , 2012 , 33, 1458-68	2.6	8
19	Evaluation of cytocompatibility and cell response to boron nitride nanotubes. <i>Methods in Molecular Biology</i> , 2012 , 811, 193-206	1.4	4
18	Boron Nitride Nanotubes: Production, Properties, Biological Interactions and Potential Applications as Therapeutic Agents in Brain Diseases. <i>Current Nanoscience</i> , 2011 , 7, 94-109	1.4	25
17	Good manufacturing practices--grade preformed ossicular prostheses from banked bone via computer numerically controlled micromilling. <i>Annals of Otology, Rhinology and Laryngology</i> , 2011 , 120, 9-16	2.1	5
16	Investigation of interactions between poly-L-lysine-coated boron nitride nanotubes and C2C12 cells: up-take, cytocompatibility, and differentiation. <i>International Journal of Nanomedicine</i> , 2010 , 5, 285-298	7.3	81
15	Enhancement of neurite outgrowth in neuronal-like cells following boron nitride nanotube-mediated stimulation. <i>ACS Nano</i> , 2010 , 4, 6267-77	16.7	160
14	Assessing cytotoxicity of boron nitride nanotubes: Interference with the MTT assay. <i>Biochemical and Biophysical Research Communications</i> , 2010 , 394, 405-11	3.4	144
13	Development of tissue-engineered substitutes of the ear ossicles: PORP-shaped poly(propylene fumarate)-based scaffolds cultured with human mesenchymal stromal cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2010 , 92, 1343-56	5.4	15
12	Barium Titanate Nanoparticles: Highly Cytocompatible Dispersions in Glycol-chitosan and Doxorubicin Complexes for Cancer Therapy. <i>Nanoscale Research Letters</i> , 2010 , 5, 1093-101	5	57
11	Preparation of stable dispersion of barium titanate nanoparticles: Potential applications in biomedicine. <i>Colloids and Surfaces B: Biointerfaces</i> , 2010 , 76, 535-43	6	37
10	Morpho-functional characterization of human mesenchymal stem cells from umbilical cord blood for potential uses in regenerative medicine. <i>Stem Cells and Development</i> , 2009 , 18, 293-305	4.4	46
9	Novel biological/biohybrid prostheses for the ossicular chain: fabrication feasibility and preliminary functional characterization. <i>Biomedical Microdevices</i> , 2009 , 11, 783-93	3.7	14
8	A micro/nanoscale surface mechanical study on morpho-functional changes in multilineage-differentiated human mesenchymal stem cells. <i>Macromolecular Bioscience</i> , 2007 , 7, 589-98	5.5	16
7	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2007 , 18, 1399-405	4.5	27
6	Morphological features of ovine embryonic lung fibroblasts cultured on different bioactive scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2006 , 76, 214-21	5.4	10

5	Bone Tissue Engineering: Natural Origination or Synthetic Polymeric Scaffolds?. <i>Advanced Materials Research</i> , 2006 , 15-17, 65-70	0.5	1
4	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2006 , 17, 1211-7	4.5	13
3	Morphological evaluation of bioartificial hydrogels as potential tissue engineering scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2004 , 15, 1309-13	4.5	45
2	Flexible Bielectrode-Based Highly Sensitive Triboelectric Motion Sensor: A Sustainable and Smart Electronic Material. <i>Energy Technology</i> , 2100662	3.5	0
1	Mimicking the Human Tympanic Membrane: the Significance of Geometry		1