

Serena Danti

List of Publications by Year in descending order

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114
papers

3,516
citations

117453

34
h-index

161609

54
g-index

120
all docs

120
docs citations

120
times ranked

4299
citing authors

#	ARTICLE	IF	CITATIONS
1	Enhancement of Neurite Outgrowth in Neuronal-Like Cells following Boron Nitride Nanotube-Mediated Stimulation. <i>ACS Nano</i> , 2010, 4, 6267-6277.	7.3	208
2	Boron Nitride Nanotubes: Biocompatibility and Potential Spill-Over in Nanomedicine. <i>Small</i> , 2013, 9, 1672-1685.	5.2	186
3	Assessing cytotoxicity of boron nitride nanotubes: Interference with the MTT assay. <i>Biochemical and Biophysical Research Communications</i> , 2010, 394, 405-411.	1.0	162
4	Bio-Based Electrospun Fibers for Wound Healing. <i>Journal of Functional Biomaterials</i> , 2020, 11, 67.	1.8	123
5	Additive Manufacturing Approaches for Hydroxyapatite-Reinforced Composites. <i>Advanced Functional Materials</i> , 2019, 29, 1903055.	7.8	109
6	Biocompatibility of boron nitride nanotubes: An up-date of in vivo toxicological investigation. <i>International Journal of Pharmaceutics</i> , 2013, 444, 85-88.	2.6	94
7	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.	3.3	90
8	Electrospinning Piezoelectric Fibers for Biocompatible Devices. <i>Advanced Healthcare Materials</i> , 2020, 9, e1901287.	3.9	90
9	Lithium doped zinc oxide based flexible piezoelectric-triboelectric hybrid nanogenerator. <i>Nano Energy</i> , 2019, 61, 327-336.	8.2	88
10	Biomaterial-Based Implantable Devices for Cancer Therapy. <i>Advanced Healthcare Materials</i> , 2017, 6, 1600766.	3.9	83
11	Recent advances of polymer-based piezoelectric composites for biomedical applications. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2021, 122, 104669.	1.5	78
12	Pilot in vivo toxicological investigation of boron nitride nanotubes. <i>International Journal of Nanomedicine</i> , 2012, 7, 19.	3.3	76
13	Barium Titanate Nanoparticles: Highly Cytocompatible Dispersions in Glycol-chitosan and Doxorubicin Complexes for Cancer Therapy. <i>Nanoscale Research Letters</i> , 2010, 5, 1093-1101.	3.1	71
14	Chitin Nanofibrils and Nanolignin as Functional Agents in Skin Regeneration. <i>International Journal of Molecular Sciences</i> , 2019, 20, 2669.	1.8	70
15	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.	3.0	67
16	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.	1.1	66
17	Multiscale fabrication of biomimetic scaffolds for tympanic membrane tissue engineering. <i>Biofabrication</i> , 2015, 7, 025005.	3.7	63
18	Morphological evaluation of bioartificial hydrogels as potential tissue engineering scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2004, 15, 1309-1313.	1.7	58

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19	Pullulan for Advanced Sustainable Body- and Skin-Contact Applications. Journal of Functional Biomaterials, 2020, 11, 20.	1.8	58
20	Design, fabrication and characterization of composite piezoelectric ultrafine fibers for cochlear stimulation. Materials and Design, 2017, 122, 206-219.	3.3	57
21	Polysaccharide hydrogels for multiscale 3D printing of pullulan scaffolds. Materials and Design, 2019, 165, 107566.	3.3	51
22	Poly(lactic acid)-Based Electrospun Fibrous Structures for Biomedical Applications. Applied Sciences (Switzerland), 2022, 12, 3192.	1.3	49
23	Morpho-Functional Characterization of Human Mesenchymal Stem Cells from Umbilical Cord Blood for Potential Uses in Regenerative Medicine. Stem Cells and Development, 2009, 18, 293-306.	1.1	47
24	Cellulose-based fiber spinning processes using ionic liquids. Cellulose, 2022, 29, 3079-3129.	2.4	47
25	Preparation of stable dispersion of barium titanate nanoparticles: Potential applications in biomedicine. Colloids and Surfaces B: Biointerfaces, 2010, 76, 535-543.	2.5	45
26	Nanoparticle drug delivery systems for inner ear therapy: An overview. Journal of Drug Delivery Science and Technology, 2017, 39, 28-35.	1.4	45
27	Interfacing polymeric scaffolds with primary pancreatic ductal adenocarcinoma cells to develop 3D cancer models. Biomatter, 2014, 4, e955386.	2.6	42
28	Electrosprayed Chitin Nanofibril/Electrospun Polyhydroxyalkanoate Fiber Mesh as Functional Nonwoven for Skin Application. Journal of Functional Biomaterials, 2020, 11, 62.	1.8	42
29	Multi-Compartment 3D-Cultured Organ-on-a-Chip: Towards a Biomimetic Lymph Node for Drug Development. Pharmaceutics, 2020, 12, 464.	2.0	42
30	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.	1.8	41
31	Flat Die Extruded Biocompatible Poly(Lactic Acid) (PLA)/Poly(Butylene Succinate) (PBS) Based Films. Polymers, 2019, 11, 1857.	2.0	41
32	Boron nitride nanotubes and primary human osteoblasts: <i>in vitro</i> compatibility and biological interactions under low frequency ultrasound stimulation. Nanotechnology, 2013, 24, 465102.	1.3	40
33	Piezo-tribo dual effect hybrid nanogenerators for health monitoring. Nano Energy, 2021, 82, 105691.	8.2	38
34	Properties and Skin Compatibility of Films Based on Poly(Lactic Acid) (PLA) Bionanocomposites Incorporating Chitin Nanofibrils (CN). Journal of Functional Biomaterials, 2020, 11, 21.	1.8	36
35	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. Journal of Materials Science: Materials in Medicine, 2007, 18, 1399-1405.	1.7	34
36	Bovine bone matrix/poly(L-lactic-co-ε-caprolactone)/gelatin hybrid scaffold (SmartBone Â®) for maxillary sinus augmentation: A histologic study on bone regeneration. International Journal of Pharmaceutics, 2017, 523, 534-544.	2.6	34

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37	Electrospun ZnO/Poly(Vinylidene Fluoride-Trifluoroethylene) Scaffolds for Lung Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2020, 26, 1312-1331.	1.6	34
38	Boron Nitride Nanotubes: Production, Properties, Biological Interactions and Potential Applications as Therapeutic Agents in Brain Diseases. <i>Current Nanoscience</i> , 2011, 7, 94-109.	0.7	32
39	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, 60.	1.8	30
40	Liver Cancer: Current and Future Trends Using Biomaterials. <i>Cancers</i> , 2019, 11, 2026.	1.7	28
41	Lithium niobate nanoparticles as biofunctional interface material for inner ear devices. <i>Biointerphases</i> , 2020, 15, 031004.	0.6	28
42	Four-Dimensional (Bio-)printing: A Review on Stimuli-Responsive Mechanisms and Their Biomedical Suitability. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 9143.	1.3	28
43	Skin-Compatible Biobased Beauty Masks Prepared by Extrusion. <i>Journal of Functional Biomaterials</i> , 2020, 11, 23.	1.8	27
44	Chitin and lignin to produce biocompatible tissues. , 2018, 01, .		26
45	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.	0.1	25
46	Wave Propagation and Energy Dissipation in Collagen Molecules. <i>ACS Biomaterials Science and Engineering</i> , 2020, 6, 1367-1374.	2.6	24
47	Plasticity of human dental pulp stromal cells with bioengineering platforms: A versatile tool for regenerative medicine. <i>Micron</i> , 2014, 67, 155-168.	1.1	23
48	Development of tissue-engineered substitutes of the ear ossicles: PORP-shaped poly(propylene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 <i>Materials Research - Part A</i> , 2010, 92A, 1343-1356.	2.1	22
49	Waste Autochthonous Tuscan Olive Leaves (<i>Olea europaea</i> var. <i>Olivastra seggianese</i>) as Antioxidant Source for Biomedicine. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5918.	1.8	22
50	Mechanics of Mineralized Collagen Fibrils upon Transient Loads. <i>ACS Nano</i> , 2020, 14, 8307-8316.	7.3	22
51	Preparation of Innovative Skin Compatible Films to Release Polysaccharides for Biobased Beauty Masks. <i>Cosmetics</i> , 2018, 5, 70.	1.5	22
52	Intelligent non-colorimetric indicators for the perishable supply chain by non-wovens with photo-programmed thermal response. <i>Nature Communications</i> , 2020, 11, 5991.	5.8	21
53	Preliminary Studies on an Innovative Bioactive Skin Soluble Beauty Mask Made by Combining Electrospinning and Dry Powder Impregnation. <i>Cosmetics</i> , 2020, 7, 96.	1.5	21
54	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, 847-851.	1.3	18

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55	De novo topology optimization of total ossicular replacement prostheses. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020, 103, 103541.	1.5	18
56	Piezoelectric Signals in Vascularized Bone Regeneration. <i>Biomolecules</i> , 2021, 11, 1731.	1.8	18
57	Novel biological/biohybrid prostheses for the ossicular chain: fabrication feasibility and preliminary functional characterization. <i>Biomedical Microdevices</i> , 2009, 11, 783-793.	1.4	17
58	Chitin Nanofibril Application in Tympanic Membrane Scaffolds to Modulate Inflammatory and Immune Response. <i>Pharmaceutics</i> , 2021, 13, 1440.	2.0	17
59	Liquid and Solid Functional Bio-Based Coatings. <i>Polymers</i> , 2021, 13, 3640.	2.0	17
60	A Micro/Nanoscale Surface Mechanical Study on Morpho-Functional Changes in Multilineage-Differentiated Human Mesenchymal Stem Cells. <i>Macromolecular Bioscience</i> , 2007, 7, 589-598.	2.1	16
61	Gelatine/PLLA sponge-like scaffolds: morphological and biological characterization. <i>Journal of Materials Science: Materials in Medicine</i> , 2006, 17, 1211-1217.	1.7	14
62	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.	1.7	14
63	Surface-Modified Nanostructured Piezoelectric Device as a Cost-Effective Transducer for Energy and Biomedicine. <i>Energy Technology</i> , 2019, 7, 1800767.	1.8	14
64	Electrosprayed Shrimp and Mushroom Nanochitins on Cellulose Tissue for Skin Contact Application. <i>Molecules</i> , 2021, 26, 4374.	1.7	14
65	An Osteosarcoma Model by 3D Printed Polyurethane Scaffold and In Vitro Generated Bone Extracellular Matrix. <i>Cancers</i> , 2022, 14, 2003.	1.7	14
66	Growing Bone Tissue-Engineered Niches with Graded Osteogenicity: An <i>In Vitro</i> Method for Biomimetic Construct Assembly. <i>Tissue Engineering - Part C: Methods</i> , 2013, 19, 911-924.	1.1	13
67	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.	1.6	13
68	Molecular origin of viscoelasticity in mineralized collagen fibrils. <i>Biomaterials Science</i> , 2021, 9, 3390-3400.	2.6	13
69	Immunomodulatory Activity of Electrospun Polyhydroxyalkanoate Fiber Scaffolds Incorporating Olive Leaf Extract. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4006.	1.3	13
70	Cellulose-Based Fibrous Materials From Bacteria to Repair Tympanic Membrane Perforations. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 669863.	2.0	13
71	Mimicking the Human Tympanic Membrane: The Significance of Scaffold Geometry. <i>Advanced Healthcare Materials</i> , 2021, 10, e2002082.	3.9	12
72	Chitin nanofibrils in renewable materials for packaging and personal care applications. <i>Advanced Materials Letters</i> , 2019, 10, 425-430.	0.3	12

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73	Chitin Nanofibril-Nanolignin Complexes as Carriers of Functional Molecules for Skin Contact Applications. <i>Nanomaterials</i> , 2022, 12, 1295.	1.9	12
74	Morphological features of ovine embryonic lung fibroblasts cultured on different bioactive scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 76A, 214-221.	2.1	11
75	Silver Nanoparticle-Coated Polyhydroxyalkanoate Based Electrospun Fibers for Wound Dressing Applications. <i>Materials</i> , 2021, 14, 4907.	1.3	11
76	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , 2022, 127, 100942.	16.0	11
77	Histologic Characterization of Human Ear Ossicles for the Development of Tissue-Engineered Replacements. <i>Otology and Neurotology</i> , 2012, 33, 1458-1468.	0.7	10
78	Tongue Rehabilitation Device for Dysphagic Patients. <i>Sensors</i> , 2019, 19, 4657.	2.1	10
79	Tympanic Membrane Collagen Expression by Dynamically Cultured Human Mesenchymal Stromal Cell/Star-Branched Poly(μ -Caprolactone) Nonwoven Constructs. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3043.	1.3	10
80	Neuron Compatibility and Antioxidant Activity of Barium Titanate and Lithium Niobate Nanoparticles. <i>International Journal of Molecular Sciences</i> , 2022, 23, 1761.	1.8	10
81	Raman spectroscopy of osteosarcoma cells. <i>Physical Biology</i> , 2019, 16, 016007.	0.8	9
82	3D fiber deposited polymeric scaffolds for external auditory canal wall. <i>Journal of Materials Science: Materials in Medicine</i> , 2018, 29, 63.	1.7	8
83	Multifunctional Coatings for Robotic Implanted Device. <i>International Journal of Molecular Sciences</i> , 2019, 20, 5126.	1.8	8
84	Decentralized triboelectric electronic health monitoring flexible microdevice. <i>Medical Devices & Sensors</i> , 2020, 3, e10103.	2.7	8
85	Combined Antimicrobial Effect of Bio-Waste Olive Leaf Extract and Remote Cold Atmospheric Plasma Effluent. <i>Molecules</i> , 2021, 26, 1890.	1.7	8
86	Applications of Piezoelectricity in Nanomedicine. <i>Nanomedicine and Nanotoxicology</i> , 2012, , 213-238.	0.1	7
87	Biobased Materials for Skin-Contact Products Promoted by POLYBIOSKIN Project. <i>Journal of Functional Biomaterials</i> , 2020, 11, 77.	1.8	7
88	Polymer Based Triboelectric Nanogenerator for Cost-Effective Green Energy Generation and Implementation of Surface-Charge Engineering. <i>Energy Technology</i> , 2021, 9, 2001088.	1.8	7
89	Combined Application of Patient-Derived Cells and Biomaterials as 3D In Vitro Tumor Models. <i>Cancers</i> , 2022, 14, 2503.	1.7	7
90	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.	0.6	6

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91	3D Models of Pancreatic Ductal Adenocarcinoma via Tissue Engineering. <i>Methods in Molecular Biology</i> , 2019, 1882, 81-95.	0.4	6
92	Evaluation of Cytocompatibility and Cell Response to Boron Nitride Nanotubes. <i>Methods in Molecular Biology</i> , 2012, 811, 193-206.	0.4	5
93	Overview of Agro-Food Waste and By-Products Valorization for Polymer Synthesis and Modification for Bio-Composite Production. <i>Proceedings (mdpi)</i> , 2020, 69, .	0.2	5
94	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, 697.	2.1	5
95	Applications of Ceramic Nanoparticles in Nanomedicine. <i>Materials Science Forum</i> , 0, 706-709, 467-471.	0.3	4
96	Mesenchymal Stromal Cell Culture and Delivery in Autologous Conditions: A Smart Approach for Orthopedic Applications. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	4
97	Biomaterial-based in vitro models for pancreatic cancer. , 2020, , 235-249.		4
98	Detection and localization of gold nanoshells inside cells: near-field approximation. <i>Applied Optics</i> , 2016, 55, D11.	2.1	4
99	Bone Tissue Engineering: Natural Origination or Synthetic Polymeric Scaffolds?. <i>Advanced Materials Research</i> , 2006, 15-17, 65-70.	0.3	3
100	Preformed homologous cortical bone prostheses for ossiculoplasty: preliminary clinical results in eighteen patients. <i>Clinical Otolaryngology</i> , 2012, 37, 415-421.	0.6	3
101	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.	1.7	3
102	Boron nitride nanotubes as nanotransducers. , 2016, , 123-138.		3
103	Applications of bioresorbable polymers in skin and eardrum. , 2017, , 423-444.		3
104	Poly(vinyl alcohol)/Gelatin Scaffolds Allow Regeneration of Nasal Tissues. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 3651.	1.3	3
105	Recent and future developments in cochlear implant technology: review of the literature. <i>Otorhinolaryngology(Italy)</i> , 2021, 71, .	0.1	3
106	Investigating the microenvironmental effects of scaffold chemistry and topology in human mesenchymal stromal cell/polymeric hollow microfiber constructs. <i>Biomedical Science and Engineering</i> , 2016, , .	0.0	2
107	Ear Tissue Engineering. , 2019, , 270-285.		2
108	Flexible Bielectrode-Based Highly Sensitive Triboelectric Motion Sensor: A Sustainable and Smart Electronic Material. <i>Energy Technology</i> , 0, , 2100662.	1.8	2

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109	Potential applications of barium titanate nanoparticles in nanomedicine: A preliminary study. , 2010, , .		1
110	Applications of bioresorbable polymers in the skeletal systems (cartilages, tendons, bones). , 2017, , 391-422.		1
111	Bioartificial Sponges for Auricular Cartilage Engineering. Lecture Notes in Bioengineering, 2020, , 191-209.	0.3	1
112	Biodegradable Nanomaterials for Cosmetic and Medical Use. , 2021, , 71-82.		0
113	Biomaterials and devices for immunotherapy. , 2022, , 97-133.		0
114	Stem Cells and Nanotechnology. , 2020, , 271-300.		0