Tiago H. Silva

List of Publications by Year
in descending order

84 papers	3,827 citations	145106 33 h-index	150775 59 g-index
89 all docs	89 docs citations	89 times ranked	5504 citing authors

#	Article	IF	Citations
1	Characterization of codfish gelatin: A comparative study of fresh and salted skins and different extraction methods. Food Hydrocolloids, 2022, 124, 107238.	5.6	12
2	Study of the immunologic response of marine-derived collagen and gelatin extracts for tissue engineering applications. Acta Biomaterialia, 2022, 141, 123-131.	4.1	27
3	Adhesive and biodegradable membranes made of sustainable catechol-functionalized marine collagen and chitosan. Colloids and Surfaces B: Biointerfaces, 2022, 213, 112409.	2.5	20
4	Sulfated Seaweed Polysaccharides. , 2022, , 307-340.		1
5	Collagens from Marine Organisms towards Biomedical Applications. Marine Drugs, 2022, 20, 170.	2.2	8
6	Mineralized collagen as a bioactive ink to support encapsulation of human adipose stem cells: A step towards the future of bone regeneration. Materials Science and Engineering C, 2022, 133, 112600.	3.8	5
7	Biomaterials and Bioactive Natural Products from Marine Invertebrates: From Basic Research to Innovative Applications. Marine Drugs, 2022, 20, 219.	2.2	26
8	Marine origin biomaterials using a compressive and absorption methodology as cell-laden hydrogel envisaging cartilage tissue engineering. , 2022, 137, 212843.		12
9	A Design of Experiments (DoE) Approach to Optimize Cryogel Manufacturing for Tissue Engineering Applications. Polymers, 2022, 14, 2026.	2.0	4
10	Biomimetic Surface Topography from the Rubus fruticosus Leaf as a Guidance of Angiogenesis in Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2022, 8, 2943-2953.	2.6	4
11	Fucoidan-based hydrogels particles as versatile carriers for diabetes treatment strategies. Journal of Biomaterials Science, Polymer Edition, 2022, 33, 1939-1954.	1.9	5
12	Prionace glauca skin collagen bioengineered constructs as a promising approach to trigger cartilage regeneration. Materials Science and Engineering C, 2021, 120, 111587.	3.8	23
13	Macro and Microstructural Characteristics of North Atlantic Deep-Sea Sponges as Bioinspired Models for Tissue Engineering Scaffolding. Frontiers in Marine Science, 2021, 7, .	1.2	11
14	Innovative methodology for marine collagenâ€“chitosanâ€“fucoidan hydrogels production, tailoring rheological properties towards biomedical application. Green Chemistry, 2021, 23, 7016-7029.	4.6	18
15	Engineering 3D printed bioactive composite scaffolds based on the combination of aliphatic polyester and calcium phosphates for bone tissue regeneration. Materials Science and Engineering C, 2021, 122, 111928.	3.8	32
16	Diverse and Productive Source of Biopolymer Inspiration: Marine Collagens. Biomacromolecules, 2021, 22, 1815-1834.	2.6	22
17	Fucoidan/chitosan nanoparticles functionalized with anti-ErbB-2 target breast cancer cells and impair tumor growth in vivo. International Journal of Pharmaceutics, 2021, 600, 120548.	2.6	15
18	Bioactivity of Biosilica Obtained From North Atlantic Deep-Sea Sponges. Frontiers in Marine Science, 2021, 8, .	1.2	2

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19	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells. Advanced Functional Materials, 2021, 31, 2011205.	7.8	8
20	New Vascular Graft Using the Decellularized Human Chorion Membrane. ACS Biomaterials Science and Engineering, 2021, 7, 3423-3433.	2.6	8
21	Angiogenic potential of airbrushed fucoidan/polycaprolactone nanofibrous meshes. International Journal of Biological Macromolecules, 2021, 183, 695-706.	3.6	6
22	Fucoidan Hydrogels Significantly Alleviate Oxidative Stress and Enhance the Endocrine Function of Encapsulated Beta Cells (Adv. Funct. Mater. 35/2021). Advanced Functional Materials, 2021, 31, 2170255.	7.8	0
23	Marine-derived polymeric nanostructures for cancer treatment. Nanomedicine, 2021, 16, 1931-1935.	1.7	2
24	Impact of growth medium salinity on galactoxylan exopolysaccharides of Porphyridium purpureum. Algal Research, 2021, 59, 102439.	2.4	12
25	Marine origin materials on biomaterials and advanced therapies to cartilage tissue engineering and regenerative medicine. Biomaterials Science, 2021, 9, 6718-6736.	2.6	13
26	Acid and enzymatic extraction of collagen from Atlantic cod (Gadus Morhua) swim bladders envisaging health-related applications. Journal of Biomaterials Science, Polymer Edition, 2020, 31, 20-37.	1.9	54
27	Reserve, structural and extracellular polysaccharides of Chlorella vulgaris: A holistic approach. Algal Research, 2020, 45, 101757.	2.4	30
28	Marine invertebrates are a source of bioadhesives with biomimetic interest. Materials Science and Engineering C, 2020, 108, 110467.	3.8	28
29	The Effect of Depth on the Morphology, Bacterial Clearance, and Respiration of the Mediterranean Sponge Chondrosia reniformis (Nardo, 1847). Marine Drugs, 2020, 18, 358.	2.2	24
30	Marine-derived biomaterials for cancer treatment. , 2020, , 551-576.		5
31	Extraction and Characterization of Collagen from Elasmobranch Byproducts for Potential Biomaterial Use. Marine Drugs, 2020, 18, 617.	2.2	33
32	Fucoidan Immobilized at the Surface of a Fibrous Mesh Presents Toxic Effects over Melanoma Cells, But Not over Noncancer Skin Cells. Biomacromolecules, 2020, 21, 2745-2754.	2.6	13
33	Marine collagen-chitosan-fucoidan cryogels as cell-laden biocomposites envisaging tissue engineering. Biomedical Materials (Bristol), 2020, 15, 055030.	1.7	31
34	Seaweed polysaccharides as sustainable building blocks for biomaterials in tissue engineering. , 2020, , 543-587.		6
35	A review on fucoidan antitumor strategies: From a biological active agent to a structural component of fucoidan-based systems. Carbohydrate Polymers, 2020, 239, 116131.	5.1	77
36	Spatial immobilization of endogenous growth factors to control vascularization in bone tissue engineering. Biomaterials Science, 2020, 8, 2577-2589.	2.6	38

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37	Collagen from Atlantic cod (Gadus morhua) skins extracted using CO2 acidified water with potential application in healthcare. Journal of Polymer Research, 2020, 27, 1.	1.2	44
38	Cell-Laden Biomimetically Mineralized Shark-Skin-Collagen-Based 3D Printed Hydrogels for the Engineering of Hard Tissues. ACS Biomaterials Science and Engineering, 2020, 6, 3664-3672.	2.6	35
39	Fucoidan from Fucus vesiculosus inhibits new blood vessel formation and breast tumor growth in vivo. Carbohydrate Polymers, 2019, 223, 115034.	5.1	51
40	Remarkable Body Architecture of Marine Sponges as Biomimetic Structure for Application in Tissue Engineering. Springer Series in Biomaterials Science and Engineering, 2019, , 27-50.	0.7	7
41	Show your beaks and we tell you what you eat: Different ecology in sympatric Antarctic benthic octopods under a climate change context. Marine Environmental Research, 2019, 150, 104757.	1.1	15
42	Scaffolding Strategies for Tissue Engineering and Regenerative Medicine Applications. Materials, 2019, 12, 1824.	1.3	309
43	Collagen-based bioinks for hard tissue engineering applications: a comprehensive review. Journal of Materials Science: Materials in Medicine, 2019, 30, 32.	1.7	150
44	Effects of ion concentrations on the hydroxyl radical scavenging rate and reducing power of fish collagen peptides. Journal of Food Biochemistry, 2019, 43, e12789.	1.2	8
45	Dual delivery of hydrophilic and hydrophobic drugs from chitosan/diatomaceous earth composite membranes. Journal of Materials Science: Materials in Medicine, 2018, 29, 21.	1.7	10
46	Sponge-derived silica for tissue regeneration. Materials Today, 2018, 21, 577-578.	8.3	7
47	Evaluation of the Potential of Collagen from Codfish Skin as a Biomaterial for Biomedical Applications. Marine Drugs, 2018, 16, 495.	2.2	76
48	Gemcitabine delivered by fucoidan/chitosan nanoparticles presents increased toxicity over human breast cancer cells. Nanomedicine, 2018, 13, 2037-2050.	1.7	47
49	Maristemâ€"Stem Cells of Marine/Aquatic Invertebrates: From Basic Research to Innovative Applications. Sustainability, 2018, 10, 526.	1.6	9
50	Marine Collagen/Apatite Composite Scaffolds Envisaging Hard Tissue Applications. Marine Drugs, 2018, 16, 269.	2.2	51
51	Extraction and characterization of collagen from Antarctic and Sub-Antarctic squid and its potential application in hybrid scaffolds for tissue engineering. Materials Science and Engineering C, 2017, 78, 787-795.	3.8	52
52	The Key Role of Sulfation and Branching on Fucoidan Antitumor Activity. Macromolecular Bioscience, 2017, 17, 1600340.	2.1	76
53	Peripheral Nerve Injury: Current Challenges, Conventional Treatment Approaches, and New Trends in Biomaterials-Based Regenerative Strategies. ACS Biomaterials Science and Engineering, 2017, 3, 3098-3122.	2.6	99
54	Influence of freezing temperature and deacetylation degree on the performance of freeze-dried chitosan scaffolds towards cartilage tissue engineering. European Polymer Journal, 2017, 95, 232-240.	2.6	46

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55	Keratin: dissolution, extraction and biomedical application. Biomaterials Science, 2017, 5, 1699-1735.	2.6	327
56	Investigation of cell adhesion in chitosan membranes for peripheral nerve regeneration. Materials Science and Engineering C, 2017, 71, 1122-1134.	3.8	42
57	By-products of Scyliorhinus canicula, Prionace glauca and Raja clavata: A valuable source of predominantly 6S sulfated chondroitin sulfate. Carbohydrate Polymers, 2017, 157, 31-37.	5.1	40
58	Bioinspiring Chondrosia reniformis (Nardo, 1847) Collagen-Based Hydrogel: A New Extraction Method to Obtain a Sticky and Self-Healing Collagenous Material. Marine Drugs, 2017, 15, 380.	2.2	22
59	Cosmetic Potential of Marine Fish Skin Collagen. Cosmetics, 2017, 4, 39.	1.5	130
60	Electrospinning of Marine-Origin Biopolymers toward Tissue Regeneration. , 2017, , 435-451.		0
61	Multifunctional biomaterials from the sea: Assessing the effects of chitosan incorporation into collagen scaffolds on mechanical and biological functionality. Acta Biomaterialia, 2016, 43, 160-169.	4.1	123
62	In vitro bioactivity studies of ceramic structures isolated from marine sponges. Biomedical Materials (Bristol), 2016, 11, 045004.	1.7	16
63	Extraction of Collagen/Gelatin from the Marine Demosponge Chondrosia reniformis (Nardo,) Tj ETQq1 1 0.784314 rgBT /Overl Chemistry Research, 2016, 55, 6922-6930.	1.8	59
64	Fucoidan Hydrogels Photo-Cross-Linked with Visible Radiation As Matrices for Cell Culture. ACS Biomaterials Science and Engineering, 2016, 2, 1151-1161.	2.6	41
65	Drug delivery systems and cartilage tissue engineering scaffolding using marine-derived products. , 2015, , 123-136.		0
66	Water and Carbon Dioxide: Green Solvents for the Extraction of Collagen/Gelatin from Marine Sponges. ACS Sustainable Chemistry and Engineering, 2015, 3, 254-260.	3.2	50
67	Surface Modification of Silica-Based Marine Sponge Bioceramics Induce Hydroxyapatite Formation. Crystal Growth and Design, 2014, 14, 4545-4552.	1.4	12
68	Marine Origin Collagens and Its Potential Applications. Marine Drugs, 2014, 12, 5881-5901.	2.2	300
69	Nanocoatings containing sulfated polysaccharides prepared by layer-by-layer assembly as models to study cellâ€“material interactions. Journal of Materials Chemistry B, 2013, 1, 4406.	2.9	33
70	Porous Hydrogels From Shark Skin Collagen Crosslinked Under Dense Carbon Dioxide Atmosphere. Macromolecular Bioscience, 2013, 13, 1621-1631.	2.1	37
71	Revealing the potential of squid chitosan-based structures for biomedical applications. Biomedical Materials (Bristol), 2013, 8, 045002.	1.7	38
72	Diatom silica microparticles for sustained release and permeation enhancement following oral delivery of prednisone and mesalamine. Biomaterials, 2013, 34, 9210-9219.	5.7	116

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73	Biocompatibility Evaluation of Ionicâ€•and Photoâ€Crosslinked Methacrylated Gellan Gum Hydrogels: In Vitro and In Vivo Study. Advanced Healthcare Materials, 2013, 2, 568-575.	3.9	91
74	Hierarchical Fibrillar Scaffolds Obtained by Nonâ€conventional Layerâ€Byâ€Layer Electrostatic Selfâ€Assembly. Advanced Healthcare Materials, 2013, 2, 422-427.	3.9	27
75	Unleashing the potential of supercritical fluids for polymer processing in tissue engineering and regenerative medicine. Journal of Supercritical Fluids, 2013, 79, 177-185.	1.6	48
76	Materials of marine origin: a review on polymers and ceramics of biomedical interest. International Materials Reviews, 2012, 57, 276-306.	9.4	173
77	The use of ionic liquids in the processing of chitosan/silk hydrogels for biomedical applications. Green Chemistry, 2012, 14, 1463.	4.6	93
78	Marine algae sulfated polysaccharides for tissue engineering and drug delivery approaches. Biomatter, 2012, 2, 278-289.	2.6	151
79	Nanostructured Natural-Based Polyelectrolyte Multilayers to Agglomerate Chitosan Particles into Scaffolds for Tissue Engineering. Tissue Engineering - Part A, 2011, 17, 2663-2674.	1.6	36
80	Electrochemical Impedance Spectroscopy of Polyelectrolyte Multilayer Modified Gold Electrodes:Â Influence of Supporting Electrolyte and Temperature. Langmuir, 2005, 21, 7461-7467.	1.6	51
81	Ion transport through polyelectrolyte multilayers under steady-state conditions. Journal of Electroanalytical Chemistry, 2004, 569, 111-119.	1.9	15
82	Electrochemical Characterization of a Self-Assembled Polyelectrolyte Film. Portugaliae Electrochimica Acta, 2003, 21, 281-292.	0.4	9
83	Spatial Immobilization of Autologous Growth Factors to Control Vascularization in Bone Tissue Engineering. SSRN Electronic Journal, 0, , .	0.4	0
84	Engineering of Viscosupplement Biomaterials for Treatment of Osteoarthritis: A Comprehensive Review. Advanced Engineering Materials, 0, , 2101541.	1.6	1