Chiara Elia Ghezzi

List of Publications by Citations

45 papers	1,704 citations	24 h-index	41 g-index
50 ext. papers	1,976 ext. citations	8.1 avg, IF	4.75 L-index

#	Paper	IF	Citations
45	Enzymatically crosslinked silk-hyaluronic acid hydrogels. *Biomaterials*, **2017**, 131, 58-67	15.6	165
44	Accelerated mineralization of dense collagen-nano bioactive glass hybrid gels increases scaffold stiffness and regulates osteoblastic function. *Biomaterials*, **2011**, 32, 8915-26	15.6	157
43	Three-dimensional mineralization of dense nanofibrillar collagen-bioglass hybrid scaffolds. *Biomacromolecules*, **2010**, 11, 1470-9	6.9	127
42	Programmable 3D silk bone marrow niche for platelet generation ex vivo and modeling of megakaryopoiesis pathologies. *Blood*, **2015**, 125, 2254-64	2.2	113
41	Corneal tissue engineering: recent advances and future perspectives. *Tissue Engineering - Part B: Reviews*, **2015**, 21, 278-87	7.9	112
40	Silk fibroin derived polypeptide-induced biomineralization of collagen. *Biomaterials*, **2012**, 33, 102-8	15.6	97
39	Clinical applications of naturally derived biopolymer-based scaffolds for regenerative medicine. *Annals of Biomedical Engineering*, **2015**, 43, 657-80	4.7	86
38	In vitro 3D corneal tissue model with epithelium, stroma, and innervation. *Biomaterials*, **2017**, 112, 1-9	15.6	75
37	Immediate production of a tubular dense collagen construct with bioinspired mechanical properties. *Acta Biomaterialia*, **2012**, 8, 1813-25	10.8	51
36	Osteoid-mimicking dense collagen/chitosan hybrid gels. *Biomacromolecules*, **2011**, 12, 2946-56	6.9	49
35	3D Functional Corneal Stromal Tissue Equivalent Based on Corneal Stromal Stem Cells and Multi-Layered Silk Film Architecture. *PLoS ONE*, **2017**, 12, e0169504	3.7	45
34	Fabrication of injectable, cellular, anisotropic collagen tissue equivalents with modular fibrillar densities. *Biomaterials*, **2015**, 37, 183-93	15.6	41
33	Transparent, Nanostructured Silk Fibroin Hydrogels with Tunable Mechanical Properties. *ACS Biomaterials Science and Engineering*, **2015**, 1, 964-970	5.5	39
32	Real time responses of fibroblasts to plastically compressed fibrillar collagen hydrogels. *Biomaterials*, **2011**, 32, 4761-72	15.6	38
31	Characterization of silk-hyaluronic acid composite hydrogels towards vitreous humor substitutes. *Biomaterials*, **2020**, 233, 119729	15.6	36
30	Fibril formation pH controls intrafibrillar collagen biomineralization in vitro and in vivo. *Biomaterials* , **2015**, 37, 252-9	15.6	33
29	Collagen gel fibrillar density dictates the extent of mineralizationin vitro. *Soft Matter*, **2011**, 7, 9898	3.6	32

28	Newly identified interfibrillar collagen crosslinking suppresses cell proliferation and remodelling. *Biomaterials*, **2015**, 54, 126-35	15.6	31
27	Multi-layered silk film coculture system for human corneal epithelial and stromal stem cells. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, 285-295	4.4	30
26	The role of physiological mechanical cues on mesenchymal stem cell differentiation in an airway tract-like dense collagen-silk fibroin construct. *Biomaterials*, **2014**, 35, 6236-47	15.6	27
25	Effect of chitosan incorporation and scaffold geometry on chondrocyte function in dense collagen type I hydrogels. *Tissue Engineering - Part A*, **2013**, 19, 2553-64	3.9	26
24	Acellular bi-layer silk fibroin scaffolds support functional tissue regeneration in a rat model of onlay esophagoplasty. *Biomaterials*, **2015**, 53, 149-59	15.6	25
23	An airway smooth muscle cell niche under physiological pulsatile flow culture using a tubular dense collagen construct. *Biomaterials*, **2013**, 34, 1954-66	15.6	25
22	Mesenchymal stem cell-seeded multilayered dense collagen-silk fibroin hybrid for tissue engineering applications. *Biotechnology Journal*, **2011**, 6, 1198-207	5.6	25
21	Into the groove: instructive silk-polypyrrole films with topographical guidance cues direct DRG neurite outgrowth. *Journal of Biomaterials Science, Polymer Edition*, **2015**, 26, 1327-42	3.5	24
20	Coculture of dorsal root ganglion neurons and differentiated human corneal stromal stem cells on silk-based scaffolds. *Journal of Biomedical Materials Research - Part A*, **2015**, 103, 3339-48	5.4	21
19	Optimization of silk films as substrate for functional corneal epithelium growth. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2016**, 104, 431-41	3.5	20
18	Corneal pain and experimental model development. *Progress in Retinal and Eye Research*, **2019**, 71, 88-113	20.5	20
17	Multilayered dense collagen-silk fibroin hybrid: a platform for mesenchymal stem cell differentiation towards chondrogenic and osteogenic lineages. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2046-2059	4.4	19
16	Artificial Polymeric Scaffolds as Extracellular Matrix Substitutes for Autologous Conjunctival Goblet Cell Expansion **2016**, 57, 6134-6146		16
15	Human Corneal Tissue Model for Nociceptive Assessments. *Advanced Healthcare Materials*, **2018**, 7, e1800488	2018	14
14	Degradation of silk films in multipocket corneal stromal rabbit models. *Journal of Applied Biomaterials and Functional Materials*, **2016**, 14, e266-76	1.8	13
13	Multifunctional silk-tropoelastin biomaterial systems. *Israel Journal of Chemistry*, **2013**, 53, 777-786	3.4	12
12	Anionic fibroin-derived polypeptides accelerate MSC osteoblastic differentiation in a three-dimensional osteoid-like dense collagen niche. *Journal of Materials Chemistry B*, **2014**, 2, 5339-5343	7.3	11
11	Bi-layer silk fibroin grafts support functional tissue regeneration in a porcine model of onlay esophagoplasty. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e894-e904	4.4	10

10	Modeling Diabetic Corneal Neuropathy in a 3D In Vitro Cornea System. *Scientific Reports*, **2018**, 8, 17294	4.9	10
9	Self-Folding 3D Silk Biomaterial Rolls to Facilitate Axon and Bone Regeneration. *Advanced Healthcare Materials*, **2020**, 9, e2000530	10.1	8
8	Silk-ionomer and silk-tropoelastin hydrogels as charged three-dimensional culture platforms for the regulation of hMSC response. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 2549-2564	4.4	6
7	Assembly and Application of a Three-Dimensional Human Corneal Tissue Model. *Current Protocols in Toxicology / Editorial Board, Mahin D Maines (editor-in-chief) [et Al]*, **2019**, 81, e84	1	4
6	Supracolloidal Assemblies as Sacrificial Templates for Porous Silk-Based Biomaterials. *International Journal of Molecular Sciences*, **2015**, 16, 20511-22	6.3	4
5	Ex vivo pregnant-like tissue model to assess injectable hydrogel for preterm birth prevention. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2020**, 108, 468-474	3.5	2
4	Preclinical Validation of a Novel Injection-Molded Swab for the Molecular Assay Detection of SARS-CoV-2.. *Diagnostics*, **2022**, 12,	3.8	1
3	Nasal Tissue Model for the Validation of Nasopharyngeal and Midturbinate Swabs for SARS-CoV-2 Testing.. *ACS Omega*, **2022**, 7, 12193-12201	3.9	1
2	Collagen-based tubular constructs for tissue engineering applications **2014**, 589-632		
1	Mineralization of nanomaterials for bone tissue engineering **2013**, 387-416		