Mehdi Farokhi

List of Publications by Year in Descending Order

63 papers	2,745 citations	29 h-index	52 g-index
66 ext. papers	3,495 ext. citations	6.6 avg, IF	5.54 L-index

#	Paper	IF	Citations
63	Thermosensitive chitosan/poly(N-isopropyl acrylamide) nanoparticles embedded in aniline pentamer/silk fibroin/polyacrylamide as an electroactive injectable hydrogel for healing critical-sized calvarial bone defect in aging rat model. *International Journal of Biological Macromolecules*, **2022**, 213, 352-368	7.9	1
62	Composite Microgels for Imaging-Monitored Tracking of the Delivery of Vascular Endothelial Growth Factor to Ischemic Muscles. *Biomacromolecules*, **2021**,	6.9	2
61	Electrospun pectin/modified copper-based metal-organic framework (MOF) nanofibers as a drug delivery system. *International Journal of Biological Macromolecules*, **2021**, 173, 351-365	7.9	21
60	Conductive Biomaterials as Substrates for Neural Stem Cells Differentiation towards Neuronal Lineage Cells. *Macromolecular Bioscience*, **2021**, 21, e2000123	5.5	10
59	Combination Therapy of Breast Cancer by Codelivery of Doxorubicin and Survivin siRNA Using Polyethylenimine Modified Silk Fibroin Nanoparticles. *ACS Biomaterials Science and Engineering*, **2021**, 7, 1074-1087	5.5	10
58	Preparation of microfluidic-based pectin microparticles loaded carbon dots conjugated with BMP-2 embedded in gelatin-elastin-hyaluronic acid hydrogel scaffold for bone tissue engineering application. *International Journal of Biological Macromolecules*, **2021**, 184, 29-41	7.9	5
57	Nano-adjuvant based on silk fibroin for the delivery of recombinant hepatitis B surface antigen. *Biomaterials Science*, **2021**, 9, 2679-2695	7.4	0
56	Conductive biomaterials as nerve conduits: Recent advances and future challenges. *Applied Materials Today*, **2020**, 20, 100784	6.6	20
55	Poloxamer: A versatile tri-block copolymer for biomedical applications. *Acta Biomaterialia*, **2020**, 110, 37-67	10.8	79
54	Carbon Dots Conjugated with Vascular Endothelial Growth Factor for Protein Tracking in Angiogenic Therapy. *Langmuir*, **2020**, 36, 2893-2900	4	11
53	Silk Fibroin Nanoadjuvant as a Promising Vaccine Carrier to Deliver the FimH-IutA Antigen for Urinary Tract Infection. *ACS Biomaterials Science and Engineering*, **2020**, 6, 4573-4582	5.5	3
52	Bilayer Cylindrical Conduit Consisting of Electrospun Polycaprolactone Nanofibers and DSC Cross-Linked Sodium Alginate Hydrogel to Bridge Peripheral Nerve Gaps. *Macromolecular Bioscience*, **2020**, 20, e2000149	5.5	13
51	Hyaluronic Acid (HA)-Based Silk Fibroin/Zinc Oxide Core-Shell Electrospun Dressing for Burn Wound Management. *Macromolecular Bioscience*, **2020**, 20, e1900328	5.5	62
50	Functionalized silk fibroin nanofibers as drug carriers: Advantages and challenges. *Journal of Controlled Release*, **2020**, 321, 324-347	11.7	58
49	The Effect of Fibronectin Coating on Protein Corona Structure and Cellular Uptake of Single-Walled Carbon Nanotubes. *Precision Nanomedicine*, **2020**, 3, 459-470	1.2	0
48	Dual drug delivery system based on pH-sensitive silk fibroin/alginate nanoparticles entrapped in PNIPAM hydrogel for treating severe infected burn wound. *Biofabrication*, **2020**, 13, 015005	10.5	19
47	Agarose-based biomaterials for advanced drug delivery. *Journal of Controlled Release*, **2020**, 326, 523-543	11.7	44

46	Fabricating an electroactive injectable hydrogel based on pluronic-chitosan/aniline-pentamer containing angiogenic factor for functional repair of the hippocampus ischemia rat model. *Materials Science and Engineering C*, **2020**, 117, 111328	8.3	13
45	Vancomycin loaded halloysite nanotubes embedded in silk fibroin hydrogel applicable for bone tissue engineering. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2020**, 69, 32-43	3	12
44	Silk fibroin/alumina nanoparticle scaffold using for osteogenic differentiation of rabbit adipose-derived stem cells. *Materialia*, **2020**, 9, 100518	3.2	12
43	A silk fibroin/decellularized extract of Wharton's jelly hydrogel intended for cartilage tissue engineering. *Progress in Biomaterials*, **2019**, 8, 31-42	4.4	15
42	Status and future scope of plant-based green hydrogels in biomedical engineering. *Applied Materials Today*, **2019**, 16, 213-246	6.6	100
41	Electroactive bio-epoxy incorporated chitosan-oligoaniline as an advanced hydrogel coating for neural interfaces. *Progress in Organic Coatings*, **2019**, 131, 389-396	4.8	47
40	Silk fibroin scaffolds for common cartilage injuries: Possibilities for future clinical applications. *European Polymer Journal*, **2019**, 115, 251-267	5.2	48
39	Endothelial and Osteoblast Differentiation of Adipose-Derived Mesenchymal Stem Cells Using a Cobalt-Doped CaP/Silk Fibroin Scaffold. *ACS Biomaterials Science and Engineering*, **2019**, 5, 2134-2146	5.5	13
38	Functionalized theranostic nanocarriers with bio-inspired polydopamine for tumor imaging and chemo-photothermal therapy. *Journal of Controlled Release*, **2019**, 309, 203-219	11.7	63
37	New insights into designing hybrid nanoparticles for lung cancer: Diagnosis and treatment. *Journal of Controlled Release*, **2019**, 295, 250-267	11.7	69
36	Evaluation of the toxicity effects of silk fibroin on human lymphocytes and monocytes. *Journal of Biochemical and Molecular Toxicology*, **2018**, 32, e22056	3.4	7
35	Applications of a metabolic network model of mesenchymal stem cells for controlling cell proliferation and differentiation. *Cytotechnology*, **2018**, 70, 331-338	2.2	7
34	Silk fibroin/hydroxyapatite composites for bone tissue engineering. *Biotechnology Advances*, **2018**, 36, 68-91	17.8	224
33	Overview of Silk Fibroin Use in Wound Dressings. *Trends in Biotechnology*, **2018**, 36, 907-922	15.1	198
32	Polyurethane foam/nano hydroxyapatite composite as a suitable scaffold for bone tissue regeneration. *Materials Science and Engineering C*, **2018**, 82, 130-140	8.3	59
31	Preparation of a Codelivery System Based on Vancomycin/Silk Scaffold Containing Silk Nanoparticle Loaded VEGF. *ACS Biomaterials Science and Engineering*, **2018**, 4, 2836-2846	5.5	22
30	Sustainable Release of Vancomycin from Silk Fibroin Nanoparticles for Treating Severe Bone Infection in Rat Tibia Osteomyelitis Model. *ACS Applied Materials & Interfaces*, **2017**, 9, 5128-5138	9.5	88
29	Letter to editor for supporting "Characterization of alginate-brushite in-situ hydrogel composites". *Materials Science and Engineering C*, **2017**, 74, 410-412	8.3	3

28	Silk fibroin/kappa-carrageenan composite scaffolds with enhanced biomimetic mineralization for bone regeneration applications. *Materials Science and Engineering C*, **2017**, 76, 951-958	8.3	38
27	Prospects of siRNA applications in regenerative medicine. *International Journal of Pharmaceutics*, **2017**, 524, 312-329	6.5	19
26	Electrospun nerve guide scaffold of poly(ε-caprolactone)/collagen/nanobioglass: an in vitro study in peripheral nerve tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1960-1972	5.4	47
25	Targeted Delivery System Based on Gemcitabine-Loaded Silk Fibroin Nanoparticles for Lung Cancer Therapy. *ACS Applied Materials & Interfaces*, **2017**, 9, 31600-31611	9.5	61
24	Prospects of peripheral nerve tissue engineering using nerve guide conduits based on silk fibroin protein and other biopolymers. *International Materials Reviews*, **2017**, 62, 367-391	16.1	43
23	Effects of Electromagnetic Stimulation on Gene Expression of Mesenchymal Stem Cells and Repair of Bone Lesions. *Cell Journal*, **2017**, 19, 34-44	2.4	12
22	Characterization of alginate-brushite in-situ hydrogel composites. *Materials Science and Engineering C*, **2016**, 67, 502-510	8.3	20
21	Importance of dual delivery systems for bone tissue engineering. *Journal of Controlled Release*, **2016**, 225, 152-69	11.7	113
20	Nanoclay-reinforced electrospun chitosan/PVA nanocomposite nanofibers for biomedical applications. *RSC Advances*, **2015**, 5, 10479-10487	3.7	99
19	The effect of fibronectin on structural and biological properties of single walled carbon nanotube. *Applied Surface Science*, **2015**, 339, 85-93	6.7	7
18	Silk fibroin nanoparticle as a novel drug delivery system. *Journal of Controlled Release*, **2015**, 206, 161-76	11.7	227
17	Silk as a potential candidate for bone tissue engineering. *Journal of Controlled Release*, **2015**, 215, 112-28	11.7	100
16	Induction of spontaneous neo-angiogenesis and tube formation in human endometrial stem cells by bioglass. *Journal of Medical Hypotheses and Ideas*, **2015**, 9, 94-98		7
15	Effect of magnesium substitution on structural and biological properties of synthetic hydroxyapatite powder. *Materials Express*, **2015**, 5, 41-48	1.3	19
14	Structural and functional changes of silk fibroin scaffold due to hydrolytic degradation. *Journal of Applied Polymer Science*, **2014**, 131, n/a-n/a	2.9	28
13	In vitro biocompatibility evaluations of hyperbranched polyglycerol hybrid nanostructure as a candidate for nanomedicine applications. *Journal of Materials Science: Materials in Medicine*, **2014**, 25, 499-506	4.5	35
12	Bio-hybrid silk fibroin/calcium phosphate/PLGA nanocomposite scaffold to control the delivery of vascular endothelial growth factor. *Materials Science and Engineering C*, **2014**, 35, 401-10	8.3	76
11	In vitro evaluation of biomimetic nanocomposite scaffold using endometrial stem cell derived osteoblast-like cells. *Tissue and Cell*, **2013**, 45, 328-37	2.7	35

List of Publications

10	Sustained release of platelet-derived growth factor and vascular endothelial growth factor from silk/calcium phosphate/PLGA based nanocomposite scaffold. *International Journal of Pharmaceutics* , **2013**, 454, 216-25	6.5	59
9	A biosynthetic nerve guide conduit based on silk/SWNT/fibronectin nanocomposite for peripheral nerve regeneration. *PLoS ONE*, **2013**, 8, e74417	3.7	78
8	Essential Functionality of Endometrial and Adipose Stem Cells in Normal and Mechanically Motivated Conditions. *Journal of Biomaterials and Tissue Engineering*, **2013**, 3, 581-588	0.3	2
7	Porous crosslinked poly(ε-caprolactone fumarate)/nanohydroxyapatite composites for bone tissue engineering. *Journal of Biomedical Materials Research - Part A*, **2012**, 100, 1051-60	5.4	24
6	Enhancement of neural cell lines proliferation using nano-structured chitosan/poly(vinyl alcohol) scaffolds conjugated with nerve growth factor. *Carbohydrate Polymers*, **2011**, 86, 526-535	10.3	54
5	Fabrication of porous chitosan/poly(vinyl alcohol) reinforced single-walled carbon nanotube nanocomposites for neural tissue engineering. *Journal of Biomedical Nanotechnology*, **2011**, 7, 276-84	4	86
4	Fabrication and characterization of poly(D,L-lactide-co-glycolide)/hydroxyapatite nanocomposite scaffolds for bone tissue regeneration. *Journal of Biomedical Materials Research - Part A*, **2010**, 94, 137-45	5.4	52
3	Biocompatibility evaluation of HDPE-UHMWPE reinforced β-TCP nanocomposites using highly purified human osteoblast cells. *Journal of Biomedical Materials Research - Part A*, **2010**, 95, 1074-83	5.4	20
2	Synthesis of nano β-TCP and the effects on the mechanical and biological properties of β-TCP/HDPE/UHMWPE nanocomposites. *Polymer Composites*, **2010**, 31, 1745-1753	3	21
1	Silk Fibroin Nanoparticles Functionalized with Fibronectin for Release of Vascular Endothelial Growth Factor to Enhance Angiogenesis. *Journal of Natural Fibers*,1-12	1.8	1