Saeid Kargozar

List of Publications by Citations

95 papers	2,795 citations	33 h-index	51 g-index
99 ext. papers	3,668 ext. citations	5.5 avg, IF	6.06 L-index

#	Paper	IF	Citations
95	Bioactive Glasses: Where Are We and Where Are We Going?. *Journal of Functional Biomaterials*, **2018**, 9,	4.8	206
94	Bioactive Glasses: Sprouting Angiogenesis in Tissue Engineering. *Trends in Biotechnology*, **2018**, 36, 430-444	15.1	171
93	Synthesis and characterization of electrospun polyvinyl alcohol nanofibrous scaffolds modified by blending with chitosan for neural tissue engineering. *International Journal of Nanomedicine*, **2012**, 7, 25-34	7.3	153
92	Strontium- and cobalt-substituted bioactive glasses seeded with human umbilical cord perivascular cells to promote bone regeneration via enhanced osteogenic and angiogenic activities. *Acta Biomaterialia*, **2017**, 58, 502-514	10.8	110
91	Nanotechnology and Nanomedicine: Start small, think big. *Materials Today: Proceedings*, **2018**, 5, 15492-15500	1.4	103
90	Mesoporous bioactive glasses: Promising platforms for antibacterial strategies. *Acta Biomaterialia*, **2018**, 81, 1-19	10.8	99
89	Accelerated wound healing in a diabetic rat model using decellularized dermal matrix and human umbilical cord perivascular cells. *Acta Biomaterialia*, **2016**, 45, 234-246	10.8	89
88	Osteogenic potential of stem cells-seeded bioactive nanocomposite scaffolds: A comparative study between human mesenchymal stem cells derived from bone, umbilical cord Wharton's jelly, and adipose tissue. *Journal of Biomedical Materials Research - Part B Applied Biomaterials*, **2018**, 106, 61-72	3.5	71
87	Bioactive glasses entering the mainstream. *Drug Discovery Today*, **2018**, 23, 1700-1704	8.8	68
86	Multiple and Promising Applications of Strontium (Sr)-Containing Bioactive Glasses in Bone Tissue Engineering. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 161	5.8	66
85	Synthesis, physico-chemical and biological characterization of strontium and cobalt substituted bioactive glasses for bone tissue engineering. *Journal of Non-Crystalline Solids*, **2016**, 449, 133-140	3.9	65
84	Acceleration of bone regeneration in bioactive glass/gelatin composite scaffolds seeded with bone marrow-derived mesenchymal stem cells over-expressing bone morphogenetic protein-7. *Materials Science and Engineering C*, **2017**, 75, 688-698	8.3	61
83	Nanotechnology for angiogenesis: opportunities and challenges. *Chemical Society Reviews*, **2020**, 49, 5008-5057	58.5	61
82	Additive Manufacturing Methods for Producing Hydroxyapatite and Hydroxyapatite-Based Composite Scaffolds: A Review. *Frontiers in Materials*, **2019**, 6,	4	61
81	Biomaterials, Current Strategies, and Novel Nano-Technological Approaches for Periodontal Regeneration. *Journal of Functional Biomaterials*, **2019**, 10,	4.8	61
80	Glass-ceramics for cancer treatment: So close, or yet so far?. *Acta Biomaterialia*, **2019**, 83, 55-70	10.8	56
79	Biomedical applications of nanoceria: new roles for an old player. *Nanomedicine*, **2018**, 13, 3051-3069	5.6	55

78	Processing methods for making porous bioactive glass-based scaffolds—A state-of-the-art review. *International Journal of Applied Ceramic Technology*, **2019**, 16, 1762-1796	2	53
77	Natural biomacromolecule based composite scaffolds from silk fibroin, gelatin and chitosan toward tissue engineering applications. *International Journal of Biological Macromolecules*, **2020**, 154, 1285-1294	7.9	50
76	Potential of Bioactive Glasses for Cardiac and Pulmonary Tissue Engineering. *Materials*, **2017**, 10,	3.5	49
75	Can bioactive glasses be useful to accelerate the healing of epithelial tissues?. *Materials Science and Engineering C*, **2019**, 97, 1009-1020	8.3	48
74	Calcium carbonate: Adored and ignored in bioactivity assessment. *Acta Biomaterialia*, **2019**, 91, 35-47	10.8	46
73	Fabrication and in vivo evaluation of an osteoblast-conditioned nano-hydroxyapatite/gelatin composite scaffold for bone tissue regeneration. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 2001-10	5.4	46
72	Electrospun Nanofibers for Improved Angiogenesis: Promises for Tissue Engineering Applications. *Nanomaterials*, **2020**, 10,	5.4	44
71	Polyurethane-Polycaprolactone Blend Patches: Scaffold Characterization and Cardiomyoblast Adhesion, Proliferation, and Function. *ACS Biomaterials Science and Engineering*, **2018**, 4, 4299-4310	5.5	44
70	Fabrication of curcumin-loaded gum tragacanth/poly(vinyl alcohol) nanofibers with optimized electrospinning parameters. *Journal of Industrial Textiles*, **2017**, 46, 1170-1192	1.6	41
69	Development of Polyvinyl Alcohol Fibrous Biodegradable Scaffolds for Nerve Tissue Engineering Applications: In Vitro Study. *International Journal of Polymeric Materials and Polymeric Biomaterials*, **2015**, 64, 474-480	3	37
68	Mesoporous bioactive glasses (MBGs) in cancer therapy: Full of hope and promise. *Materials Letters*, **2019**, 251, 241-246	3.3	36
67	Chemistry of biomaterials: future prospects. *Current Opinion in Biomedical Engineering*, **2019**, 10, 181-190	4.4	36
66	Repair of rat critical size calvarial defect using osteoblast-like and umbilical vein endothelial cells seeded in gelatin/hydroxyapatite scaffolds. *Journal of Biomedical Materials Research - Part A*, **2016**, 104, 1770-8	5.4	36
65	Osteoblast-seeded bioglass/gelatin nanocomposite: a promising bone substitute in critical-size calvarial defect repair in rat. *International Journal of Artificial Organs*, **2016**, 39, 524-533	1.9	35
64	Bone Tissue Engineering Using Human Cells: A Comprehensive Review on Recent Trends, Current Prospects, and Recommendations. *Applied Sciences (Switzerland)*, **2019**, 9, 174	2.6	34
63	Quantum Dots: A Review from Concept to Clinic. *Biotechnology Journal*, **2020**, 15, e2000117	5.6	33
62	Using Bioactive Glasses in the Management of Burns. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 62	5.8	31
61	Curcumin in tissue engineering: A traditional remedy for modern medicine. *BioFactors*, **2019**, 45, 135-151	6.1	31

60	An excellent nanofibrous matrix based on gum tragacanth-poly (ε-caprolactone)-poly (vinyl alcohol) for application in diabetic wound healing. *Polymer Degradation and Stability*, **2020**, 174, 109105	4.7	30
59	Functionalization and Surface Modifications of Bioactive Glasses (BGs): Tailoring of the Biological Response Working on the Outermost Surface Layer. *Materials*, **2019**, 12,	3.5	27
58	Ionically Crosslinked Thermoresponsive Chitosan Hydrogels formed In Situ: A Conceptual Basis for Deeper Understanding. *Macromolecular Materials and Engineering*, **2017**, 302, 1700227	3.9	27
57	"Hard" ceramics for "Soft" tissue engineering: Paradox or opportunity?. *Acta Biomaterialia*, **2020**, 115, 1-28	10.8	27
56	Synthesis and characterisation of highly interconnected porous poly(ε-caprolactone)-collagen scaffolds: a therapeutic design to facilitate tendon regeneration. *Materials Technology*, **2018**, 33, 29-37	2.1	24
55	Gum Tragacanth (GT): A Versatile Biocompatible Material beyond Borders. *Molecules*, **2021**, 26,	4.8	22
54	Decellularization and preservation of human skin: A platform for tissue engineering and reconstructive surgery. *Methods*, **2020**, 171, 62-67	4.6	22
53	Strontium- and Cobalt-Doped Multicomponent Mesoporous Bioactive Glasses (MBGs) for Potential Use in Bone Tissue Engineering Applications. *Materials*, **2020**, 13,	3.5	21
52	Synergistic combination of bioactive glasses and polymers for enhanced bone tissue regeneration. *Materials Today: Proceedings*, **2018**, 5, 15532-15539	1.4	21
51	Copper-containing bioactive glasses and glass-ceramics: From tissue regeneration to cancer therapeutic strategies. *Materials Science and Engineering C*, **2021**, 121, 111741	8.3	19
50	Cerium Oxide Nanoparticles (Nanoceria): Hopes in Soft Tissue Engineering. *Molecules*, **2020**, 25,	4.8	18
49	Decellularized human amniotic membrane: From animal models to clinical trials. *Methods*, **2020**, 171, 11-19	4.6	18
48	Synthesis of nano HA/□CP mesoporous particles using a simple modification in granulation method. *Materials Science and Engineering C*, **2019**, 96, 859-871	8.3	16
47	Biomedical Waste Management by Using Nanophotocatalysts: The Need for New Options. *Materials*, **2020**, 13,	3.5	14
46	Designing triple-shape memory polymers from a miscible polymer pair through dual-electrospinning technique. *Journal of Applied Polymer Science*, **2019**, 136, 47471	2.9	14
45	Bone Regeneration in rat using a gelatin/bioactive glass nanocomposite scaffold along with endothelial cells (HUVECs). *International Journal of Applied Ceramic Technology*, **2018**, 15, 1427-1438	2	13
44	Rapid Induction of Neural Differentiation in Human Umbilical Cord Matrix Mesenchymal Stem Cells by cAMP-elevating Agents. *International Journal of Molecular and Cellular Medicine*, **2016**, 5, 167-177	1.2	13
43	Developmental regulation and lateralisation of the □ and □ subunits of nicotinic acetylcholine receptors in developing rat hippocampus. *International Journal of Developmental Neuroscience*, **2020**, 80, 303-318	2.7	11

42	Sustained release of TGF-β1 via genetically-modified cells induces the chondrogenic differentiation of mesenchymal stem cells encapsulated in alginate sulfate hydrogels. *Journal of Materials Science: Materials in Medicine*, **2018**, 30, 7	4.5	11
41	Curcumin: footprints on cardiac tissue engineering. *Expert Opinion on Biological Therapy*, **2019**, 19, 1199-1205	3.4	10
40	The electrospun poly(ε-caprolactone)/fluoridated hydroxyapatite nanocomposite for bone tissue engineering. *Polymers for Advanced Technologies*, **2020**, 31, 1019-1026	3.2	10
39	When size matters: Biological response to strontium- and cobalt-substituted bioactive glass particles. *Materials Today: Proceedings*, **2018**, 5, 15768-15775	1.4	10
38	Bioactive Glasses and Glass/Polymer Composites for Neuroregeneration: Should We Be Hopeful?. *Applied Sciences (Switzerland)*, **2020**, 10, 3421	2.6	9
37	Silicon-doped calcium phosphates; the critical effect of synthesis routes on the biological performance. *Materials Science and Engineering C*, **2020**, 111, 110828	8.3	9
36	Regulation of the Ocular Cell/Tissue Response by Implantable Biomaterials and Drug Delivery Systems. *Bioengineering*, **2020**, 7,	5.3	8
35	Synthesis and physico-chemical characterization of fluoride (F)- and silver (Ag)-substituted sol-gel mesoporous bioactive glasses. *Biomedical Glasses*, **2019**, 5, 185-192	2.7	7
34	Stem cell-based therapies for cardiac diseases: The critical role of angiogenic exosomes. *BioFactors*, **2021**, 47, 270-291	6.1	7
33	Solution combustion synthesis (SCS) of theranostic ions doped biphasic calcium phosphates; kinetic of ions release in simulated body fluid (SBF) and reactive oxygen species (ROS) generation. *Materials Science and Engineering C*, **2021**, 118, 111533	8.3	7
32	Coating Ti6Al4V substrate with the triple-layer glass-ceramic compositions using sol–gel method; the critical effect of the composition of the layers on the mechanical and in vitro biological performance. *Journal of Sol-Gel Science and Technology*, **2020**, 94, 743-753	2.3	6
31	Improved osteogenesis and angiogenesis of theranostic ions doped calcium phosphates (CaPs) by a simple surface treatment process: A state-of-the-art study. *Materials Science and Engineering C*, **2021**, 124, 112082	8.3	6
30	Stimulation of Osteogenic Differentiation of Induced Pluripotent Stem Cells (iPSCs) Using Bioactive Glasses: An Study. *Frontiers in Bioengineering and Biotechnology*, **2019**, 7, 355	5.8	6
29	Nanoengineered biomaterials for kidney regeneration **2019**, 325-344		6
28	Mesoporous Silica Nanoparticles and Mesoporous Bioactive Glasses for Wound Management: From Skin Regeneration to Cancer Therapy. *Materials*, **2021**, 14,	3.5	5
27	Nanoengineered biomaterials for intestine regeneration **2019**, 363-378		5
26	Three-dimensionally printed polycaprolactone/multicomponent bioactive glass scaffolds for potential application in bone tissue engineering. *Biomedical Glasses*, **2020**, 6, 57-69	2.7	4
25	New anthropometric indices in the definition of metabolic syndrome in pediatrics. *Diabetes and Metabolic Syndrome: Clinical Research and Reviews*, **2019**, 13, 1779-1784	8.9	3

24	Nanoengineered biomaterials for bone/dental regeneration **2019**, 13-38		3
23	Biomedical Radioactive Glasses for Brachytherapy. *Materials*, **2021**, 14,	3.5	3
22	Characterization of Macroporous Polycaprolactone/Silk Fibroin/Gelatin/Ascorbic Acid Composite Scaffolds and Results in a Rabbit Model for Meniscus Cartilage Repair. *Cartilage*, **2021**, 19476035211035418	3	3
21	Iron (Fe)-doped mesoporous 45S5 bioactive glasses: Implications for cancer therapy.. *Translational Oncology*, **2022**, 20, 101397	4.9	3
20	Effects of the biological environment on ceramics: Degradation, cell response, and in vivo behavior **2018**, 407-437		2
19	In silico study and experimental evaluation of the solution combustion synthesized manganese oxide (MnO2) nanoparticles. *Ceramics International*, **2021**, 48, 1659-1659	5.1	2
18	Implementing Taguchi method to analyze electrospinning parameters influence on Mg-doped fluorapatite nanoparticles-poly (ε-caprolactone) nanocomposite scaffold (Mg-FA NPs/PCL) properties. *Polymers for Advanced Technologies*, **2020**, 31, 3114-3125	3.2	1
17	Synthetic route of PANI (III): Ultrasound-assisted polymerization **2019**, 67-89		1
16	Osteogenic Potential of Magnesium (Mg)-Doped Multicomponent Bioactive Glass: In Vitro and In Vivo Animal Studies.. *Materials*, **2022**, 15,	3.5	1
15	Nanoengineered biomaterials for skin regeneration **2019**, 265-283		1
14	Preparation and Characterization of Platelet Lysate (PL)-Loaded Electrospun Nanofibers for Epidermal Wound Healing.. *Journal of Pharmaceutical Sciences*, **2022**,	3.9	1
13	Decellularization of human amniotic membrane using detergent-free methods: Possibilities in tissue engineering.. *Tissue and Cell*, **2022**, 76, 101818	2.7	0
12	Calcium phosphate bioceramics for improved angiogenesis **2022**, 185-203		0
11	Scaffolds for the repair of orbital wall defects **2019**, 401-419		
10	Distribution pattern of nicotinic acetylcholine receptors in developing cerebellum of rat neonates born of diabetic mothers. *Journal of Chemical Neuroanatomy*, **2020**, 108, 101819	3.2	
9	Three Dimensional (3D) Printable Gel-Inks for Skin Tissue Regeneration. *Gels Horizons: From Science To Smart Materials*, **2021**, 191-227		
8	Formulation of electrospun Mg-FA/poly (ε-caprolactone) nanocomposite to adjust bioactivity, biodegradability, and cellular interactions. *Polymers for Advanced Technologies*, **2021**, 32, 2597-2608	3.2	
7	Inorganic nanomaterials for improved angiogenesis **2022**, 335-359		

List of Publications

6 Detection assays for vasculogenesis and angiogenesis **2022**, 145-163

5 Angiogenesis induction by bioactive glasses and glass-ceramics **2022**, 203-226

4 Electrospun nanofibers for angiogenesis strategies **2022**, 383-414

3 Skin wound healing: The critical role of angiogenesis **2022**, 439-463

2 The effects of medicinal herbs and phytochemicals on angiogenesis and models of wound healing **2022**, 163-185

1 Angiogenesis and vasculogenesis: Status in tissue engineering **2022**, 1-13