Saravanan Sekaran

List of Publications by Citations

59 papers	3,072 citations	27 h-index	55 g-index
60 ext. papers	3,727 ext. citations	6 avg, IF	5.67 L-index

#	Paper	IF	Citations
59	A review of chitosan and its derivatives in bone tissue engineering. *Carbohydrate Polymers*, **2016**, 151, 172-188	10.3	363
58	Preparation, characterization and antimicrobial activity of a bio-composite scaffold containing chitosan/nano-hydroxyapatite/nano-silver for bone tissue engineering. *International Journal of Biological Macromolecules*, **2011**, 49, 188-93	7.9	227
57	Chitosan based biocomposite scaffolds for bone tissue engineering. *International Journal of Biological Macromolecules*, **2016**, 93, 1354-1365	7.9	214
56	Chitosan and its derivatives for gene delivery. *International Journal of Biological Macromolecules*, **2011**, 48, 234-8	7.9	192
55	Biocomposite scaffolds containing chitosan/alginate/nano-silica for bone tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2013**, 109, 294-300	6	176
54	Nanohydroxyapatite-reinforced chitosan composite hydrogel for bone tissue repair in vitro and in vivo. *Journal of Nanobiotechnology*, **2015**, 13, 40	9.4	154
53	Bio-composite scaffolds containing chitosan/nano-hydroxyapatite/nano-copper-zinc for bone tissue engineering. *International Journal of Biological Macromolecules*, **2012**, 50, 294-9	7.9	138
52	A review of natural polysaccharides for drug delivery applications: Special focus on cellulose, starch and glycogen. *Biomedicine and Pharmacotherapy*, **2018**, 107, 96-108	7.5	123
51	A novel injectable temperature-sensitive zinc doped chitosan/β-glycerophosphate hydrogel for bone tissue engineering. *International Journal of Biological Macromolecules*, **2013**, 54, 24-9	7.9	115
50	Scaffolds containing chitosan, gelatin and graphene oxide for bone tissue regeneration in vitro and in vivo. *International Journal of Biological Macromolecules*, **2017**, 104, 1975-1985	7.9	114
49	A review on injectable chitosan/beta glycerophosphate hydrogels for bone tissue regeneration. *International Journal of Biological Macromolecules*, **2019**, 121, 38-54	7.9	95
48	Scaffolds containing chitosan/carboxymethyl cellulose/mesoporous wollastonite for bone tissue engineering. *International Journal of Biological Macromolecules*, **2015**, 80, 481-8	7.9	89
47	Chitosan scaffolds containing chicken feather keratin nanoparticles for bone tissue engineering. *International Journal of Biological Macromolecules*, **2013**, 62, 481-6	7.9	83
46	Chitosan scaffolds containing silicon dioxide and zirconia nano particles for bone tissue engineering. *International Journal of Biological Macromolecules*, **2011**, 49, 1167-72	7.9	83
45	Enhanced osteoblast adhesion on polymeric nano-scaffolds for bone tissue engineering. *Journal of Biomedical Nanotechnology*, **2011**, 7, 238-44	4	72
44	Biogenic gold nanoparticles synthesis mediated by Mangifera indica seed aqueous extracts exhibits antibacterial, anticancer and anti-angiogenic properties. *Biomedicine and Pharmacotherapy*, **2018**, 105, 440-448	7.5	65
43	Role of Mesoporous Wollastonite (Calcium Silicate) in Mesenchymal Stem Cell Proliferation and Osteoblast Differentiation: A Cellular and Molecular Study. *Journal of Biomedical Nanotechnology*, **2015**, 11, 1124-38	4	57

42	Graphene Oxide-Gold Nanosheets Containing Chitosan Scaffold Improves Ventricular Contractility and Function After Implantation into Infarcted Heart. *Scientific Reports*, **2018**, 8, 15069	4.9	57
41	Effect of size of bioactive glass nanoparticles on mesenchymal stem cell proliferation for dental and orthopedic applications. *Materials Science and Engineering C*, **2015**, 53, 142-9	8.3	51
40	Synthesis and characterization of diopside particles and their suitability along with chitosan matrix for bone tissue engineering in vitro and in vivo. *Journal of Biomedical Nanotechnology*, **2014**, 10, 970-81	4	51
39	Chitosan/nano-hydroxyapatite/nano-zirconium dioxide scaffolds with miR-590-5p for bone regeneration. *International Journal of Biological Macromolecules*, **2018**, 111, 953-958	7.9	49
38	The emergence of COVID-19 as a global pandemic: Understanding the epidemiology, immune response and potential therapeutic targets of SARS-CoV-2. *Biochimie*, **2020**, 179, 85-100	4.6	47
37	Chitosan based thermoresponsive hydrogel containing graphene oxide for bone tissue repair. *Biomedicine and Pharmacotherapy*, **2018**, 107, 908-917	7.5	45
36	Synthesis, characterization, and antimicrobial activity of nano-hydroxyapatite-zinc for bone tissue engineering applications. *Journal of Nanoscience and Nanotechnology*, **2012**, 12, 167-72	1.3	40
35	Effects of silica and calcium levels in nanobioglass ceramic particles on osteoblast proliferation. *Materials Science and Engineering C*, **2014**, 43, 458-64	8.3	34
34	Prophylactic supplementation of resveratrol is more effective than its therapeutic use against doxorubicin induced cardiotoxicity. *PLoS ONE*, **2017**, 12, e0181535	3.7	30
33	Role of tau protein in Alzheimer's disease: The prime pathological player. *International Journal of Biological Macromolecules*, **2020**, 163, 1599-1617	7.9	29
32	A Combinatorial effect of carboxymethyl cellulose based scaffold and microRNA-15b on osteoblast differentiation. *International Journal of Biological Macromolecules*, **2016**, 93, 1457-1464	7.9	27
31	Chicken egg yolk antibody (IgY) as diagnostics and therapeutics in parasitic infections - A review. *International Journal of Biological Macromolecules*, **2019**, 136, 755-763	7.9	23
30	Inflammation in myocardial injury: mesenchymal stem cells as potential immunomodulators. *American Journal of Physiology - Heart and Circulatory Physiology*, **2019**, 317, H213-H225	5.2	20
29	Synthesis, Characterization and Biological Action of Nano-Bioglass Ceramic Particles for Bone Formation. *Journal of Biomaterials and Tissue Engineering*, **2012**, 2, 197-205	0.3	20
28	Fabrication and Investigation of the Suitability of Chitosan-Silver Composite Scaffolds for Bone Tissue Engineering Applications. *Process Biochemistry*, **2021**, 100, 178-187	4.8	19
27	Synthesis and characterization of zinc-silibinin complexes: A potential bioactive compound with angiogenic, and antibacterial activity for bone tissue engineering. *Colloids and Surfaces B: Biointerfaces*, **2018**, 167, 134-143	6	18
26	Melatonin regulates tumor angiogenesis via miR-424-5p/VEGFA signaling pathway in osteosarcoma. *Life Sciences*, **2020**, 256, 118011	6.8	17
25	Intussusceptive angiogenesis as a key therapeutic target for cancer therapy. *Life Sciences*, **2020**, 252, 117670	6.8	15

24	Synthesis and characterization of silibinin/phenanthroline/neocuproine copper(II) complexes for augmenting bone tissue regeneration: an in vitro analysis. *Journal of Biological Inorganic Chemistry*, **2018**, 23, 753-762	3.7	15
23	Carbon nanomaterials for cardiovascular theranostics: Promises and challenges. *Bioactive Materials*, **2021**, 6, 2261-2280	16.7	15
22	Bioactive Zinc(II) complex incorporated PCL/gelatin electrospun nanofiber enhanced bone tissue regeneration. *European Journal of Pharmaceutical Sciences*, **2021**, 160, 105768	5.1	14
21	Kaempferol-zinc(II) complex synthesis and evaluation of bone formation using zebrafish model. *Life Sciences*, **2020**, 256, 117993	6.8	11
20	Flavonoids: Classification, Function, and Molecular Mechanisms Involved in Bone Remodelling. *Frontiers in Endocrinology*, **2021**, 12, 779638	5.7	11
19	Zinc chelated morin promotes osteoblast differentiation over its uncomplexed counterpart. *Process Biochemistry*, **2019**, 82, 167-172	4.8	9
18	Models to investigate intussusceptive angiogenesis: A special note on CRISPR/Cas9 based system in zebrafish. *International Journal of Biological Macromolecules*, **2019**, 123, 1229-1240	7.9	8
17	A Minireview of the Promising Drugs and Vaccines in Pipeline for the Treatment of COVID-19 and Current Update on Clinical Trials. *Frontiers in Molecular Biosciences*, **2021**, 8, 637378	5.6	7
16	Inflammation in myocardial injury- Stem cells as potential immunomodulators for myocardial regeneration and restoration. *Life Sciences*, **2020**, 250, 117582	6.8	6
15	Myocardial Cell Signaling During the Transition to Heart Failure: Cellular Signaling and Therapeutic Approaches. *Comprehensive Physiology*, **2018**, 9, 75-125	7.7	6
14	Bio-inspired multifunctional collagen/electrospun bioactive glass membranes for bone tissue engineering applications. *Materials Science and Engineering C*, **2021**, 126, 111856	8.3	4
13	Rutin-Zn(II) complex promotes bone formation - A concise assessment in human dental pulp stem cells and zebrafish. *Chemico-Biological Interactions*, **2021**, 349, 109674	5	4
12	Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells as an Individual-Specific and Renewable Source of Adult Stem Cells. *Methods in Molecular Biology*, **2017**, 1553, 183-190	1.4	3
11	MicroRNA-432-5p regulates sprouting and intussusceptive angiogenesis in osteosarcoma microenvironment by targeting PDGFB. *Laboratory Investigation*, **2021**, 101, 1011-1025	5.9	3
10	Chitosan-Based Biocomposite Scaffolds and Hydrogels for Bone Tissue Regeneration. *Springer Series in Biomaterials Science and Engineering*, **2019**, 413-442	0.6	1
9	The Physiological and Pathological Role of Tissue Nonspecific Alkaline Phosphatase beyond Mineralization. *Biomolecules*, **2021**, 11,	5.9	1
8	Ferulic acid-Cu(II) and Zn(II) complexes promote bone formation. *Process Biochemistry*, **2021**, 107, 145-152	4.8	1
7	Antibody therapy against antibiotic-resistant diarrheagenic : a systematic review. *Immunotherapy*, **2021**, 13, 1305-1320	3.8	1

6	Re-appraising the role of flavonols, flavones and flavonones on osteoblasts and osteoclasts- A review on its molecular mode of action.. *Chemico-Biological Interactions*, **2022**, 109831	5	0
5	Solid-state H NMR-based metabolomics assessment of tributylin effects in zebrafish bone.. *Life Sciences*, **2021**, 289, 120233	6.8	0
4	Mesenchymal stem cells and COVID-19: What they do and what they can do. *World Journal of Stem Cells*, **2021**, 13, 1318-1337	5.6	0
3	Heteroleptic pincer palladium(II) complex coated orthopedic implants impede the AbaI/AbaR quorum sensing system and biofilm development by .. *Biofouling*, **2021**, 1-16	3.3	0
2	Commentary: "Silver Nanoparticles Coated Poly(L-Lactide) Electrospun Membrane for Implant Associated Infections Prevention". *Frontiers in Pharmacology*, **2021**, 12, 759304	5.6	
1	Magnetic Nanoparticles for Imaging, Diagnosis, and Drug-Delivery Applications **2022**, 98-129		