

Saravanan Sekaran

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

4,438
citations

136950

32
h-index

144013

57
g-index

60
all docs

60
docs citations

60
times ranked

5875
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of chitosan and its derivatives in bone tissue engineering. <i>Carbohydrate Polymers</i> , 2016, 151, 172-188.	10.2	493
2	Chitosan based biocomposite scaffolds for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1354-1365.	7.5	301
3	Preparation, characterization and antimicrobial activity of a bio-composite scaffold containing chitosan/nano-hydroxyapatite/nano-silver for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 188-193.	7.5	263
4	Chitosan and its derivatives for gene delivery. <i>International Journal of Biological Macromolecules</i> , 2011, 48, 234-238.	7.5	223
5	Biocomposite scaffolds containing chitosan/alginate/nano-silica for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 109, 294-300.	5.0	215
6	Nanohydroxyapatite-reinforced chitosan composite hydrogel for bone tissue repair in vitro and in vivo. <i>Journal of Nanobiotechnology</i> , 2015, 13, 40.	9.1	198
7	A review of natural polysaccharides for drug delivery applications: Special focus on cellulose, starch and glycogen. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 96-108.	5.6	196
8	The emergence of COVID-19 as a global pandemic: Understanding the epidemiology, immune response and potential therapeutic targets of SARS-CoV-2. <i>Biochimie</i> , 2020, 179, 85-100.	2.6	172
9	Scaffolds containing chitosan, gelatin and graphene oxide for bone tissue regeneration in vitro and in vivo. <i>International Journal of Biological Macromolecules</i> , 2017, 104, 1975-1985.	7.5	164
10	A review on injectable chitosan/beta glycerophosphate hydrogels for bone tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2019, 121, 38-54.	7.5	162
11	Bio-composite scaffolds containing chitosan/nano-hydroxyapatite/nano-copper/zinc for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2012, 50, 294-299.	7.5	160
12	A novel injectable temperature-sensitive zinc doped chitosan/ β -glycerophosphate hydrogel for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2013, 54, 24-29.	7.5	137
13	Scaffolds containing chitosan/carboxymethyl cellulose/mesoporous wollastonite for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2015, 80, 481-488.	7.5	114
14	Chitosan scaffolds containing chicken feather keratin nanoparticles for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2013, 62, 481-486.	7.5	105
15	Biogenic gold nanoparticles synthesis mediated by <i>Mangifera indica</i> seed aqueous extracts exhibits antibacterial, anticancer and anti-angiogenic properties. <i>Biomedicine and Pharmacotherapy</i> , 2018, 105, 440-448.	5.6	102
16	Chitosan scaffolds containing silicon dioxide and zirconia nano particles for bone tissue engineering. <i>International Journal of Biological Macromolecules</i> , 2011, 49, 1167-1172.	7.5	100
17	Role of tau protein in Alzheimer's disease: The prime pathological player. <i>International Journal of Biological Macromolecules</i> , 2020, 163, 1599-1617.	7.5	100
18	Chitosan/nano-hydroxyapatite/nano-zirconium dioxide scaffolds with miR-590-5p for bone regeneration. <i>International Journal of Biological Macromolecules</i> , 2018, 111, 953-958.	7.5	83

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19	Graphene Oxide-Gold Nanosheets Containing Chitosan Scaffold Improves Ventricular Contractility and Function After Implantation into Infarcted Heart. <i>Scientific Reports</i> , 2018, 8, 15069.	3.3	82
20	Enhanced Osteoblast Adhesion on Polymeric Nano-Scaffolds for Bone Tissue Engineering. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 238-244.	1.1	80
21	Chitosan based thermoresponsive hydrogel containing graphene oxide for bone tissue repair. <i>Biomedicine and Pharmacotherapy</i> , 2018, 107, 908-917.	5.6	68
22	Role of Mesoporous Wollastonite (Calcium Silicate) in Mesenchymal Stem Cell Proliferation and Osteoblast Differentiation: A Cellular and Molecular Study. <i>Journal of Biomedical Nanotechnology</i> , 2015, 11, 1124-1138.	1.1	65
23	Flavonoids: Classification, Function, and Molecular Mechanisms Involved in Bone Remodelling. <i>Frontiers in Endocrinology</i> , 2021, 12, 779638.	3.5	65
24	Effect of size of bioactive glass nanoparticles on mesenchymal stem cell proliferation for dental and orthopedic applications. <i>Materials Science and Engineering C</i> , 2015, 53, 142-149.	7.3	63
25	Synthesis and Characterization of Diopside Particles and Their Suitability Along with Chitosan Matrix for Bone Tissue Engineering & In Vitro and & In Vivo. <i>Journal of Biomedical Nanotechnology</i> , 2014, 10, 970-981.	1.1	57
26	Synthesis, Characterization, and Antimicrobial Activity of Nano-Hydroxyapatite-Zinc for Bone Tissue Engineering Applications. <i>Journal of Nanoscience and Nanotechnology</i> , 2012, 12, 167-172.	0.9	46
27	Carbon nanomaterials for cardiovascular theranostics: Promises and challenges. <i>Bioactive Materials</i> , 2021, 6, 2261-2280.	15.6	42
28	Effects of silica and calcium levels in nanobioglass ceramic particles on osteoblast proliferation. <i>Materials Science and Engineering C</i> , 2014, 43, 458-464.	7.3	41
29	Fabrication and Investigation of the Suitability of Chitosan-Silver Composite Scaffolds for Bone Tissue Engineering Applications. <i>Process Biochemistry</i> , 2021, 100, 178-187.	3.7	39
30	Bioactive Zinc(II) complex incorporated PCL/gelatin electrospun nanofiber enhanced bone tissue regeneration. <i>European Journal of Pharmaceutical Sciences</i> , 2021, 160, 105768.	4.0	39
31	Prophylactic supplementation of resveratrol is more effective than its therapeutic use against doxorubicin induced cardiotoxicity. <i>PLoS ONE</i> , 2017, 12, e0181535.	2.5	37
32	Chicken egg yolk antibody (IgY) as diagnostics and therapeutics in parasitic infections – A review. <i>International Journal of Biological Macromolecules</i> , 2019, 136, 755-763.	7.5	36
33	Inflammation in myocardial injury: mesenchymal stem cells as potential immunomodulators. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2019, 317, H213-H225.	3.2	33
34	A Combinatorial effect of carboxymethyl cellulose based scaffold and microRNA-15b on osteoblast differentiation. <i>International Journal of Biological Macromolecules</i> , 2016, 93, 1457-1464.	7.5	31
35	Melatonin regulates tumor angiogenesis via miR-424-5p/VEGFA signaling pathway in osteosarcoma. <i>Life Sciences</i> , 2020, 256, 118011.	4.3	30
36	Intussusceptive angiogenesis as a key therapeutic target for cancer therapy. <i>Life Sciences</i> , 2020, 252, 117670.	4.3	30

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37	Synthesis and characterization of zinc-silibinin complexes: A potential bioactive compound with angiogenic, and antibacterial activity for bone tissue engineering. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 167, 134-143.	5.0	28
38	Kaempferol-zinc(II) complex synthesis and evaluation of bone formation using zebrafish model. <i>Life Sciences</i> , 2020, 256, 117993.	4.3	26
39	Synthesis, Characterization and Biological Action of Nano-Bioglass Ceramic Particles for Bone Formation. <i>Journal of Biomaterials and Tissue Engineering</i> , 2012, 2, 197-205.	0.1	22
40	Bio-inspired multifunctional collagen/electrospun bioactive glass membranes for bone tissue engineering applications. <i>Materials Science and Engineering C</i> , 2021, 126, 111856.	7.3	21
41	Synthesis and characterization of silibinin/phenanthroline/neocuproine copper(II) complexes for augmenting bone tissue regeneration: an in vitro analysis. <i>Journal of Biological Inorganic Chemistry</i> , 2018, 23, 753-762.	2.6	20
42	The Physiological and Pathological Role of Tissue Nonspecific Alkaline Phosphatase beyond Mineralization. <i>Biomolecules</i> , 2021, 11, 1564.	4.0	19
43	Zinc chelated morin promotes osteoblast differentiation over its uncomplexed counterpart. <i>Process Biochemistry</i> , 2019, 82, 167-172.	3.7	14
44	A Minireview of the Promising Drugs and Vaccines in Pipeline for the Treatment of COVID-19 and Current Update on Clinical Trials. <i>Frontiers in Molecular Biosciences</i> , 2021, 8, 637378.	3.5	13
45	Myocardial Cell Signaling During the Transition to Heart Failure. , 2018, 9, 75-125.		12
46	Models to investigate intussusceptive angiogenesis: A special note on CRISPR/Cas9 based system in zebrafish. <i>International Journal of Biological Macromolecules</i> , 2019, 123, 1229-1240.	7.5	12
47	MicroRNA-432-5p regulates sprouting and intussusceptive angiogenesis in osteosarcoma microenvironment by targeting PDGFB. <i>Laboratory Investigation</i> , 2021, 101, 1011-1025.	3.7	12
48	Rutin-Zn(II) complex promotes bone formation - A concise assessment in human dental pulp stem cells and zebrafish. <i>Chemico-Biological Interactions</i> , 2021, 349, 109674.	4.0	12
49	Inflammation in myocardial injury- Stem cells as potential immunomodulators for myocardial regeneration and restoration. <i>Life Sciences</i> , 2020, 250, 117582.	4.3	10
50	Heteroleptic pincer palladium(II) complex coated orthopedic implants impede the AbaI/AbaR quorum sensing system and biofilm development by <i>Acinetobacter baumannii</i> . <i>Biofouling</i> , 2022, 38, 55-70.	2.2	8
51	Recent Breakthrough of Bismuth-Based Nanostructured Materials for Multimodal Theranostic Applications. <i>Journal of Nanomaterials</i> , 2022, 2022, 1-7.	2.7	7
52	Re-appraising the role of flavonols, flavones and flavonones on osteoblasts and osteoclasts- A review on its molecular mode of action. <i>Chemico-Biological Interactions</i> , 2022, 355, 109831.	4.0	6
53	Mesenchymal stem cells and COVID-19: What they do and what they can do. <i>World Journal of Stem Cells</i> , 2021, 13, 1318-1337.	2.8	5
54	Chitosan-Based Biocomposite Scaffolds and Hydrogels for Bone Tissue Regeneration. <i>Springer Series in Biomaterials Science and Engineering</i> , 2019, , 413-442.	1.0	4

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55	Ferulic acid-Cu(II) and Zn(II) complexes promote bone formation. <i>Process Biochemistry</i> , 2021, 107, 145-152.	3.7	4
56	Antibody therapy against antibiotic-resistant diarrheagenic <i>Escherichia coli</i> : a systematic review. <i>Immunotherapy</i> , 2021, 13, 1305-1320.	2.0	4
57	Solid-state ¹ H NMR-based metabolomics assessment of tributyltin effects in zebrafish bone. <i>Life Sciences</i> , 2022, 289, 120233.	4.3	4
58	Human-Induced Pluripotent Stem Cell-Derived Mesenchymal Stem Cells as an Individual-Specific and Renewable Source of Adult Stem Cells. <i>Methods in Molecular Biology</i> , 2017, 1553, 183-190.	0.9	3
59	Commentary: "Silver Nanoparticles Coated Poly(L-Lactide) Electrospun Membrane for Implant Associated Infections Prevention". <i>Frontiers in Pharmacology</i> , 2021, 12, 759304.	3.5	0
60	Magnetic Nanoparticles for Imaging, Diagnosis, and Drug-Delivery Applications. , 2022, , 98-129.		0