Rajan Choudhary

List of Publications by Year
in descending order

24	989	687363 13	642732 23
papers	citations	h-index	g-index

24	24	24	947
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Comparative Review of Natural and Synthetic Biopolymer Composite Scaffolds. Polymers, 2021, 13, 1105.	4.5	435
2	Bioactivity studies of calcium magnesium silicate prepared from eggshell waste by solâ€“gel combustion synthesis. Journal of Asian Ceramic Societies, 2015, 3, 173-177.	2.3	125
3	Biocompatibility and Physico-Chemical Properties of Highly Porous PLA/HA Scaffolds for Bone Reconstruction. Polymers, 2020, 12, 2938.	4.5	63
4	Antibacterial forsterite (Mg2SiO4) scaffold: A promising bioceramic for load bearing applications. Bioactive Materials, 2018, 3, 218-224.	15.6	46
5	In-vitro bioactivity, biocompatibility and dissolution studies of diopside prepared from biowaste by using solâ€“gel combustion method. Materials Science and Engineering C, 2016, 68, 89-100.	7.3	45
6	Biomineralization, dissolution and cellular studies of silicate bioceramics prepared from eggshell and rice husk. Materials Science and Engineering C, 2021, 118, 111456.	7.3	43
7	Preparation of nanocrystalline forsterite by combustion of different fuels and their comparative in-vitro bioactivity, dissolution behaviour and antibacterial studies. Materials Science and Engineering C, 2017, 77, 811-822.	7.3	32
8	Biomineralization, antibacterial activity and mechanical properties of biowaste derived diopside nanopowders. Advanced Powder Technology, 2019, 30, 1950-1964.	4.1	30
9	Biomineralization, mechanical, antibacterial and biological investigation of larnite and rankinite bioceramics. Materials Science and Engineering C, 2021, 118, 111466.	7.3	24
10	The physicochemical and biomechanical profile of forsterite and its osteogenic potential of mesenchymal stromal cells. PLoS ONE, 2019, 14, e0214212.	2.5	22
11	In-vitro bioactivity of nanocrystalline and bulk larnite/chitosan composites: comparative study. Journal of Sol-Gel Science and Technology, 2015, 74, 631-640.	2.4	19
12	Impact of forsterite addition on mechanical and biological properties of composites. Journal of Asian Ceramic Societies, 2020, 8, 1051-1065.	2.3	15
13	Advances in Sintering Techniques for Calcium Phosphates Ceramics. Materials, 2021, 14, 6133.	2.9	15
14	Photocatalytic Degradation of Methylene Blue Dye by Calciumâ€and Magnesiumâ€Based Silicate Ceramics. ChemistrySelect, 2020, 5, 12198-12205.	1.5	12
15	Comparative investigation on antibacterial, biological and mechanical behaviour of monticellite and diopside derived from biowaste for bone regeneration. Materials Chemistry and Physics, 2022, 286, 126157.	4.0	12
16	In vitro bioactivity studies of larnite and larnite/chitin composites prepared from biowaste for biomedical applications. Bulletin of Materials Science, 2016, 39, 1213-1221.	1.7	11
17	Wollastonite/forsterite composite scaffolds offer better surface for hydroxyapatite formation. Bulletin of Materials Science, 2019, 42, 1.	1.7	9
18	Investigation on bioactivity, mechanical stability, bactericidal activity and in-vitro biocompatibility of magnesium silicates for bone tissue engineering applications. Journal of Materials Research, 2022, 37, 608-621.	2.6	9

#	Article	IF	Citations
19	A Fundamental Approach Toward Polymers and Polymer Composites: Current Trends for Biomedical Applications. Lecture Notes in Bioengineering, 2019, , 1-28.	0.4	5
20	Designing of porous PMMA/diopside bone cement for non-load bearing applications. Journal of Asian Ceramic Societies, 2020, 8, 862-872.	2.3	5
21	Biomimetic scaffold fabricated with a mammalian trabecular bone template. Polymer Degradation and Stability, 2020, 172, 109076.	5.8	5
22	Conversion of Biowaste into Larnite by Solâ€Gel Combustion Route for Biomedical Applications. ChemistrySelect, 2022, 7, e202103783.	1.5	4
23	Antibacterial wollastonite supported excellent proliferation and osteogenic differentiation of human bone marrow derived mesenchymal stromal cells. Journal of Sol-Gel Science and Technology, 2021, 100, 506-516.	2.4	3
24	Production of Biodiesel from Soybean Oil in Less Time and at Low Temperature. Asian Journal of Chemistry, 2022, 34, 2173-2177.	0.3	0