

# Alok Kumar

## List of Publications by Year in descending order

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29  
papers

1,116  
citations

430874

18  
h-index

477307

29  
g-index

30  
all docs

30  
docs citations

30  
times ranked

1700  
citing authors

#	ARTICLE	IF	CITATIONS
1	Load-bearing biodegradable PCL/PGA-beta TCP scaffolds for bone tissue regeneration. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2021, 109, 193-200.	3.4	46
2	3D Bioprinting for Organs, Skin, and Engineered Tissues. , 2019, , 115-128.		0
3	Load-bearing biodegradable polycaprolactone-poly (lactic-co-glycolic acid)-beta tri-calcium phosphate scaffolds for bone tissue regeneration. Polymers for Advanced Technologies, 2019, 30, 1189-1197.	3.2	14
4	The applicability of furfuryl-gelatin as a novel bioink for tissue engineering applications. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2019, 107, 314-323.	3.4	54
5	A Contact-Based Method for Differentiation of Human Mesenchymal Stem Cells into an Endothelial Cell-Phenotype. Cell Biochemistry and Biophysics, 2018, 76, 187-195.	1.8	13
6	Design and biological functionality of a novel hybrid Ti-6Al-4V/hydrogel system for reconstruction of bone defects. Journal of Tissue Engineering and Regenerative Medicine, 2018, 12, 1133-1144.	2.7	33
7	Delivery of Mesenchymal Stem Cells from Gelatin-Alginate Hydrogels to Stomach Lumen for Treatment of Gastroparesis. Bioengineering, 2018, 5, 12.	3.5	15
8	Attenuation of the in vitro neurotoxicity of 316L SS by graphene oxide surface coating. Materials Science and Engineering C, 2017, 73, 788-797.	7.3	27
9	Biodegradable hydrogel-based biomaterials with high absorbent properties for non-adherent wound dressing. International Wound Journal, 2017, 14, 1076-1087.	2.9	46
10	Tunable TiO <sub>2</sub> -pepsin thin film as a low-temperature electron transport layer for photoelectrochemical cells. Materials Technology, 2017, 32, 829-837.	3.0	18
11	Functional response of osteoblasts in functionally gradient titanium alloy mesh arrays processed by 3D additive manufacturing. Colloids and Surfaces B: Biointerfaces, 2017, 150, 78-88.	5.0	72
12	Microstructure and compression properties of 3D powder printed Ti-6Al-4V scaffolds with designed porosity: Experimental and computational analysis. Materials Science and Engineering C, 2017, 70, 812-823.	7.3	103
13	A Bioactive Hydrogel and 3D Printed Polycaprolactone System for Bone Tissue Engineering. Gels, 2017, 3, 26.	4.5	55
14	Understanding the response of pulsed electric field on osteoblast functions in three-dimensional mesh structures. Journal of Biomaterials Applications, 2016, 31, 594-605.	2.4	19
15	Biological functionality and mechanistic contribution of extracellular matrix-ornamented three dimensional Ti-6Al-4V mesh scaffolds. Journal of Biomedical Materials Research - Part A, 2016, 104, 2751-2763.	4.0	37
16	Structure-Property Relationship in an Electroconductive Hydroxyapatite-Titanium Disilicide Composite. International Journal of Applied Ceramic Technology, 2016, 13, 773-786.	2.1	3
17	Effect of iron alloying in evolution of nanostructure and microstructural stability in nickel. Metals and Materials International, 2016, 22, 451-458.	3.4	4
18	Low temperature additive manufacturing of three dimensional scaffolds for bone-tissue engineering applications: Processing related challenges and property assessment. Materials Science and Engineering Reports, 2016, 103, 1-39.	31.8	175

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19	Mechanistic contribution of electroconductive hydroxyapatite-titanium disilicide composite on the alignment and proliferation of cells. <i>Journal of Biomaterials Applications</i> , 2016, 30, 1505-1516.	2.4	15
20	Three-dimensional plotted hydroxyapatite scaffolds with predefined architecture: comparison of stabilization by alginate cross-linking versus sintering. <i>Journal of Biomaterials Applications</i> , 2016, 30, 1168-1181.	2.4	29
21	Strength reliability and in vitro degradation of three-dimensional powder printed strontium-substituted magnesium phosphate scaffolds. <i>Acta Biomaterialia</i> , 2016, 31, 401-411.	8.3	79
22	Flow Cytometry Analysis of Cytotoxicity <i>In Vitro</i> and Long-Term Toxicity of HA-40wt% BaTiO <sub>3</sub> Nanoparticles <i>In Vivo</i> . <i>Journal of the American Ceramic Society</i> , 2015, 98, 3202-3211.	3.8	6
23	Hydroxyapatite-titanium bulk composites for bone tissue engineering applications. <i>Journal of Biomedical Materials Research - Part A</i> , 2015, 103, 791-806.	4.0	58
24	Hot pressed silver doped hydroxyapatite biomaterials with bactericidal properties against magnetotactic bacteria. <i>Materials Technology</i> , 2014, 29, B21-B25.	3.0	6
25	Flow cytometry analysis of human fetal osteoblast fate processes on spark plasma sintered hydroxyapatite-titanium biocomposites. <i>Journal of Biomedical Materials Research - Part A</i> , 2013, 101, 2925-2938.	4.0	31
26	<i>In vitro</i> bioactivity and cytocompatibility properties of spark plasma sintered HA-Ti composites. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 223-236.	3.4	28
27	On the toughness enhancement in hydroxyapatite-based composites. <i>Acta Materialia</i> , 2013, 61, 5198-5215.	7.9	82
28	Fretting wear behaviour of hydroxyapatite-titanium composites in simulated body fluid, supplemented with 5 g l <sup>-1</sup> bovine serum albumin. <i>Journal Physics D: Applied Physics</i> , 2013, 46, 404004.	2.8	21
29	Cytocompatibility property evaluation of gas pressure sintered SiAlON-SiC composites with L929 fibroblast cells and Saos-2 osteoblast-like cells. <i>Materials Science and Engineering C</i> , 2012, 32, 464-469.	7.3	18