

Arvind Sinha, FNASc

List of Publications by Year in descending order

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35
papers

1,215
citations

394421

19
h-index

361022

35
g-index

36
all docs

36
docs citations

36
times ranked

1989
citing authors

#	ARTICLE	IF	CITATIONS
1	Bactericidal effect of iron oxide nanoparticles on Staphylococcus aureus. International Journal of Nanomedicine, 2010, 5, 277.	6.7	253
2	Evolution of PVA gels prepared without crosslinking agents as a cell adhesive surface. Journal of Materials Science: Materials in Medicine, 2011, 22, 1763-1772.	3.6	121
3	Composition dependent structural modulations in transparent poly(vinyl alcohol) hydrogels. Colloids and Surfaces B: Biointerfaces, 2009, 74, 186-190.	5.0	90
4	Synthesis of Nanosized and Microporous Precipitated Hydroxyapatite in Synthetic Polymers and Biopolymers. Journal of the American Ceramic Society, 2003, 86, 357-359.	3.8	78
5	A combined effect of freeze-thaw cycles and polymer concentration on the structure and mechanical properties of transparent PVA gels. Biomedical Materials (Bristol), 2012, 7, 015006.	3.3	75
6	Biomimetic nanocomposites of carboxymethyl cellulose-hydroxyapatite: Novel three dimensional load bearing bone grafts. Colloids and Surfaces B: Biointerfaces, 2014, 115, 182-190.	5.0	58
7	Mesenchymal cell response to nanosized biphasic calcium phosphate composites. Colloids and Surfaces B: Biointerfaces, 2009, 73, 146-151.	5.0	57
8	Poly(vinyl alcohol)-hydroxyapatite biomimetic scaffold for tissue regeneration. Materials Science and Engineering C, 2007, 27, 70-74.	7.3	52
9	Synthesis and sintering of biomimetic hydroxyapatite nanoparticles for biomedical applications. Journal of Materials Science: Materials in Medicine, 2006, 17, 1063-1068.	3.6	43
10	Biomimetic patterning of polymer hydrogels with hydroxyapatite nanoparticles. Materials Science and Engineering C, 2009, 29, 1330-1333.	7.3	40
11	Systematic evolution of a porous hydroxyapatite-poly(vinylalcohol)-gelatin composite. Colloids and Surfaces B: Biointerfaces, 2004, 35, 29-32.	5.0	37
12	Evaluation of nano-biphasic calcium phosphate ceramics for bone tissue engineering applications: In vitro and preliminary in vivo studies. Journal of Biomaterials Applications, 2013, 27, 565-575.	2.4	37
13	Facile synthesis of carbon fiber reinforced polymer-hydroxyapatite ternary composite: A mechanically strong bioactive bone graft. Materials Science and Engineering C, 2019, 97, 388-396.	7.3	30
14	Topographical heterogeneity in transparent PVA hydrogels studied by AFM. Materials Science and Engineering C, 2012, 32, 222-227.	7.3	29
15	Synthesis of Nanosized Copper Powder by an Aqueous Route. Journal of Materials Synthesis and Processing, 1999, 7, 373-377.	0.3	25
16	Composition dependent mechanical response of transparent poly(vinyl alcohol) hydrogels. Colloids and Surfaces B: Biointerfaces, 2010, 78, 115-119.	5.0	24
17	Biomimetic synthesis of superparamagnetic iron oxide particles in proteins. Journal of Materials Research, 2003, 18, 1309-1313.	2.6	23
18	Biomimetically synthesized polymer-hydroxyapatite sheet like nano-composite. Journal of Materials Science: Materials in Medicine, 2008, 19, 301-304.	3.6	21

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19	Three dimensional biphasic calcium phosphate nanocomposites for load bearing bioactive bone grafts. <i>Materials Science and Engineering C</i> , 2016, 59, 375-383.	7.3	20
20	Stiffness and wettability dependent myoblast cell compatibility of transparent poly(vinyl alcohol) hydrogels. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2013, 101B, 346-354.	3.4	15
21	Oriented Arrays of Nanocrystalline Magnetite in Polymer Matrix Produced by Biomimetic Synthesis. <i>Materials Transactions</i> , 2001, 42, 1672-1675.	1.2	13
22	Aqueous ferrofluids as templates for magnetic hydroxyapatite nanocomposites. <i>Journal of Materials Science: Materials in Medicine</i> , 2010, 21, 2365-2369.	3.6	13
23	Magnetic field induced synthesis and self-assembly of super paramagnetic particles in a protein matrix. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005, 43, 7-11.	5.0	10
24	Synthesis of injectable and cohesive nano hydroxyapatite scaffolds. <i>Journal of Materials Science: Materials in Medicine</i> , 2012, 23, 913-919.	3.6	9
25	Effect of solid to liquid ratio on the physical properties of injectable nanohydroxyapatite. <i>Journal of Materials Science: Materials in Medicine</i> , 2013, 24, 53-59.	3.6	7
26	Biomimetic route to produce nanosized inorganic crystals. <i>Scripta Materialia</i> , 2001, 44, 1933-1936.	5.2	5
27	Patterning of copper particles on polymeric surface. <i>Journal of Materials Research</i> , 2001, 16, 1354-1357.	2.6	5
28	Mimicking biomineralization under microgravity. <i>Materials Science and Engineering C</i> , 2009, 29, 779-784.	7.3	5
29	Cells Behaviour in Presence of Nano-Scaffolds. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 43-44.	1.1	5
30	Surface Mineralization of Hydrogels Through Octacalcium Phosphate. <i>International Journal of Applied Ceramic Technology</i> , 2011, 8, 540-546.	2.1	4
31	Magnetic field induced biomimetic synthesis of superparamagnetic poly (vinyl alcohol) maghemite composite. <i>Journal of Materials Research</i> , 2004, 19, 1676-1681.	2.6	3
32	Dehydration driven changes in the structure and mechanical behavior of electrospun poly (vinyl) Tj ETQq0 0 0 rgBT /Qverlock_10 Tf 50 2	7.3	3
33	Microhydrogel mediated Synthesis of Sintered Hydroxyapatite Granules. <i>International Journal of Applied Ceramic Technology</i> , 2008, 5, 458-463.	2.1	2
34	Macroporous hybrid frameworks for bone graft substitute. <i>Materials Science and Engineering C</i> , 2010, 30, 873-877.	7.3	2
35	Assessment of injectable and cohesive nanohydroxyapatite composites for biological functions. <i>Progress in Biomaterials</i> , 2015, 4, 31-38.	4.5	1