Ramesh Subbiah

List of Publications by Citations

38 papers	1,073 citations	19 h-index	32 g-index
42 ext. papers	1,238 ext. citations	7.7 avg, IF	4.66 L-index

#	Paper	IF	Citations
38	Nanoparticles: functionalization and multifunctional applications in biomedical sciences. *Current Medicinal Chemistry*, **2010**, 17, 4559-77	4.3	211
37	Materials Science and Design Principles of Growth Factor Delivery Systems in Tissue Engineering and Regenerative Medicine. *Advanced Healthcare Materials*, **2019**, 8, e1801000	10.1	91
36	Osteogenic/angiogenic dual growth factor delivery microcapsules for regeneration of vascularized bone tissue. *Advanced Healthcare Materials*, **2015**, 4, 1982-92	10.1	72
35	N,N,N-Trimethyl chitosan nanoparticles for controlled intranasal delivery of HBV surface antigen. *Carbohydrate Polymers*, **2012**, 89, 1289-97	10.3	69
34	Biogenic synthesis of multidimensional gold nanoparticles assisted by Streptomyces hygroscopicus and its electrochemical and antibacterial properties. *BioMetals*, **2012**, 25, 351-60	3.4	47
33	Dual growth factor delivery using biocompatible core-shell microcapsules for angiogenesis. *Small*, **2013**, 9, 3468-76	11	47
32	Tribological properties, corrosion resistance and biocompatibility of magnetron sputtered titanium-amorphous carbon coatings. *Applied Surface Science*, **2016**, 371, 262-274	6.7	38
31	Influence of Growth Parameters on the Formation of Hydroxyapatite (HAp) Nanostructures and Their Cell Viability Studies. *Nanobiomedicine*, **2015**, 2, 2	4.8	33
30	Vascular morphogenesis of human umbilical vein endothelial cells on cell-derived macromolecular matrix microenvironment. *Tissue Engineering - Part A*, **2014**, 20, 2365-77	3.9	31
29	Mechanotransduction of human pluripotent stem cells cultivated on tunable cell-derived extracellular matrix. *Biomaterials*, **2018**, 150, 100-111	15.6	29
28	Fibronectin-tethered graphene oxide as an artificial matrix for osteogenesis. *Biomedical Materials (Bristol)*, **2014**, 9, 065003	3.5	29
27	Tunable Crosslinked Cell-Derived Extracellular Matrix Guides Cell Fate. *Macromolecular Bioscience*, **2016**, 16, 1723-1734	5.5	28
26	Copper-glucosamine microcubes: synthesis, characterization, and C-reactive protein detection. *Langmuir*, **2011**, 27, 8934-42	4	25
25	Approximating bone ECM: Crosslinking directs individual and coupled osteoblast/osteoclast behavior. *Biomaterials*, **2016**, 103, 22-32	15.6	24
24	Novel Platform of Cardiomyocyte Culture and Coculture via Fibroblast-Derived Matrix-Coupled Aligned Electrospun Nanofiber. *ACS Applied Materials & Interfaces*, **2017**, 9, 224-235	9.5	23
23	Lipid-based carriers for controlled delivery of nitric oxide. *Expert Opinion on Drug Delivery*, **2017**, 14, 1341-1353	8	22
22	3D Printing of Microgel-Loaded Modular Microcages as Instructive Scaffolds for Tissue Engineering. *Advanced Materials*, **2020**, 32, e2001736	24	22

21	InP/ZnS-graphene oxide and reduced graphene oxide nanocomposites as fascinating materials for potential optoelectronic applications. *Nanoscale*, **2013**, 5, 9793-805	7.7	21
20	Effects of controlled dual growth factor delivery on bone regeneration following composite bone-muscle injury. *Acta Biomaterialia*, **2020**, 114, 63-75	10.8	20
19	Cardiomyoblast (h9c2) differentiation on tunable extracellular matrix microenvironment. *Tissue Engineering - Part A*, **2015**, 21, 1940-51	3.9	19
18	Evaluation of cytotoxicity, biophysics and biomechanics of cells treated with functionalized hybrid nanomaterials. *Journal of the Royal Society Interface*, **2013**, 10, 20130694	4.1	18
17	Structural and biological evaluation of a multifunctional SWCNT-AgNPs-DNA/PVA bio-nanofilm. *Analytical and Bioanalytical Chemistry*, **2011**, 400, 547-60	4.4	18
16	The three dimensional cues-integrated-biomaterial potentiates differentiation of human mesenchymal stem cells. *Carbohydrate Polymers*, **2018**, 202, 488-496	10.3	18
15	Surface functionalized magnetic nanoparticles shift cell behavior with on/off magnetic fields. *Journal of Cellular Physiology*, **2018**, 233, 1168-1178	7	14
14	Stretchable ECM Patch Enhances Stem Cell Delivery for Post-MI Cardiovascular Repair. *Advanced Healthcare Materials*, **2019**, 8, e1900593	10.1	14
13	Dual growth factor-loaded core-shell polymer microcapsules can promote osteogenesis and angiogenesis. *Macromolecular Research*, **2014**, 22, 1320-1329	1.9	14
12	Fibroblast-derived matrix (FDM) as a novel vascular endothelial growth factor delivery platform. *Journal of Controlled Release*, **2014**, 194, 122-9	11.7	13
11	Effect of chain flexibility on cell adhesion: Semi-flexible model-based analysis of cell adhesion to hydrogels. *Scientific Reports*, **2019**, 9, 2463	4.9	11
10	Triad CNT-NPs/Polymer Nanocomposites: Fabrication, Characterization, and Preliminary Antimicrobial Study. *Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry*, **2011**, 41, 345-355		9
9	Investigation of the changes of biophysical/mechanical characteristics of differentiating preosteoblasts in vitro. *Biomaterials Research*, **2015**, 19, 24	16.8	8
8	Investigation of cellular responses upon interaction with silver nanoparticles. *International Journal of Nanomedicine*, **2015**, 10 Spec Iss, 191-201	7.3	8
7	Prevascularized hydrogels with mature vascular networks promote the regeneration of critical-size calvarial bone defects in vivo. *Journal of Tissue Engineering and Regenerative Medicine*, **2021**, 15, 219-231	4.4	7
6	Triple growth factor delivery promotes functional bone regeneration following composite musculoskeletal trauma. *Acta Biomaterialia*, **2021**, 127, 180-192	10.8	6
5	Embedding cells within nanoscale, rapidly mineralizing hydrogels: A new paradigm to engineer cell-laden bone-like tissue. *Journal of Structural Biology*, **2020**, 212, 107636	3.4	5
4	Elasticity Modulation of Fibroblast-Derived Matrix for Endothelial Cell Vascular Morphogenesis and Mesenchymal Stem Cell Differentiation. *Tissue Engineering - Part A*, **2016**, 22, 415-26	3.9	4

3 Nanoscale mineralization of cell-laden methacrylated gelatin hydrogels using calcium carbonate-calcium citrate core-shell microparticles. *Journal of Materials Chemistry B*, **2021**, 9, 9583-9593 7.3 2

2 3D printing of Microgel-loaded Modular LEGO-like Cages as Instructive Scaffolds for Tissue Engineering 1

1 Functional Nanomaterials for Biomedical Research: Focus on Bio-Functionalization, Biosynthesis, and Biomedical Applications **2013**, 67-96