

# Ramesh Subbiah

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Nanoscale mineralization of cell-laden methacrylated gelatin hydrogels using calcium carbonate-calcium citrate core-shell microparticles. <i>Journal of Materials Chemistry B</i> , <b>2021</b> , 9, 9583-9593	7.3	2
37	Triple growth factor delivery promotes functional bone regeneration following composite musculoskeletal trauma. <i>Acta Biomaterialia</i> , <b>2021</b> , 127, 180-192	10.8	6
36	Prevascularized hydrogels with mature vascular networks promote the regeneration of critical-size calvarial bone defects in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2021</b> , 15, 219-231	4.4	7
35	Embedding cells within nanoscale, rapidly mineralizing hydrogels: A new paradigm to engineer cell-laden bone-like tissue. <i>Journal of Structural Biology</i> , <b>2020</b> , 212, 107636	3.4	5
34	Effects of controlled dual growth factor delivery on bone regeneration following composite bone-muscle injury. <i>Acta Biomaterialia</i> , <b>2020</b> , 114, 63-75	10.8	20
33	3D Printing of Microgel-Loaded Modular Microcages as Instructive Scaffolds for Tissue Engineering. <i>Advanced Materials</i> , <b>2020</b> , 32, e2001736	24	22
32	Effect of chain flexibility on cell adhesion: Semi-flexible model-based analysis of cell adhesion to hydrogels. <i>Scientific Reports</i> , <b>2019</b> , 9, 2463	4.9	11
31	Stretchable ECM Patch Enhances Stem Cell Delivery for Post-MI Cardiovascular Repair. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900593	10.1	14
30	Materials Science and Design Principles of Growth Factor Delivery Systems in Tissue Engineering and Regenerative Medicine. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1801000	10.1	91
29	Surface functionalized magnetic nanoparticles shift cell behavior with on/off magnetic fields. <i>Journal of Cellular Physiology</i> , <b>2018</b> , 233, 1168-1178	7	14
28	Mechanotransduction of human pluripotent stem cells cultivated on tunable cell-derived extracellular matrix. <i>Biomaterials</i> , <b>2018</b> , 150, 100-111	15.6	29
27	The three dimensional cues-integrated-biomaterial potentiates differentiation of human mesenchymal stem cells. <i>Carbohydrate Polymers</i> , <b>2018</b> , 202, 488-496	10.3	18
26	Lipid-based carriers for controlled delivery of nitric oxide. <i>Expert Opinion on Drug Delivery</i> , <b>2017</b> , 14, 1348-1353	2.2	22
25	Novel Platform of Cardiomyocyte Culture and Coculture via Fibroblast-Derived Matrix-Coupled Aligned Electrospun Nanofiber. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 224-235	9.5	23
24	Tunable Crosslinked Cell-Derived Extracellular Matrix Guides Cell Fate. <i>Macromolecular Bioscience</i> , <b>2016</b> , 16, 1723-1734	5.5	28
23	Approximating bone ECM: Crosslinking directs individual and coupled osteoblast/osteoclast behavior. <i>Biomaterials</i> , <b>2016</b> , 103, 22-32	15.6	24
22	Elasticity Modulation of Fibroblast-Derived Matrix for Endothelial Cell Vascular Morphogenesis and Mesenchymal Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , <b>2016</b> , 22, 415-26	3.9	4

21	Tribological properties, corrosion resistance and biocompatibility of magnetron sputtered titanium-amorphous carbon coatings. <i>Applied Surface Science</i> , <b>2016</b> , 371, 262-274	6.7	38
20	Influence of Growth Parameters on the Formation of Hydroxyapatite (HAp) Nanostructures and Their Cell Viability Studies. <i>Nanobiomedicine</i> , <b>2015</b> , 2, 2	4.8	33
19	Investigation of the changes of biophysical/mechanical characteristics of differentiating preosteoblasts in vitro. <i>Biomaterials Research</i> , <b>2015</b> , 19, 24	16.8	8
18	Osteogenic/angiogenic dual growth factor delivery microcapsules for regeneration of vascularized bone tissue. <i>Advanced Healthcare Materials</i> , <b>2015</b> , 4, 1982-92	10.1	72
17	Investigation of cellular responses upon interaction with silver nanoparticles. <i>International Journal of Nanomedicine</i> , <b>2015</b> , 10 Spec Iss, 191-201	7.3	8
16	Cardiomyoblast (h9c2) differentiation on tunable extracellular matrix microenvironment. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1940-51	3.9	19
15	Fibronectin-tethered graphene oxide as an artificial matrix for osteogenesis. <i>Biomedical Materials (Bristol)</i> , <b>2014</b> , 9, 065003	3.5	29
14	Fibroblast-derived matrix (FDM) as a novel vascular endothelial growth factor delivery platform. <i>Journal of Controlled Release</i> , <b>2014</b> , 194, 122-9	11.7	13
13	Dual growth factor-loaded core-shell polymer microcapsules can promote osteogenesis and angiogenesis. <i>Macromolecular Research</i> , <b>2014</b> , 22, 1320-1329	1.9	14
12	Vascular morphogenesis of human umbilical vein endothelial cells on cell-derived macromolecular matrix microenvironment. <i>Tissue Engineering - Part A</i> , <b>2014</b> , 20, 2365-77	3.9	31
11	InP/ZnS-graphene oxide and reduced graphene oxide nanocomposites as fascinating materials for potential optoelectronic applications. <i>Nanoscale</i> , <b>2013</b> , 5, 9793-805	7.7	21
10	Functional Nanomaterials for Biomedical Research: Focus on Bio-Functionalization, Biosynthesis, and Biomedical Applications <b>2013</b> , 67-96		
9	Dual growth factor delivery using biocompatible core-shell microcapsules for angiogenesis. <i>Small</i> , <b>2013</b> , 9, 3468-76	11	47
8	Evaluation of cytotoxicity, biophysics and biomechanics of cells treated with functionalized hybrid nanomaterials. <i>Journal of the Royal Society Interface</i> , <b>2013</b> , 10, 20130694	4.1	18
7	Biogenic synthesis of multidimensional gold nanoparticles assisted by <i>Streptomyces hygroscopicus</i> and its electrochemical and antibacterial properties. <i>BioMetals</i> , <b>2012</b> , 25, 351-60	3.4	47
6	N,N,N-Trimethyl chitosan nanoparticles for controlled intranasal delivery of HBV surface antigen. <i>Carbohydrate Polymers</i> , <b>2012</b> , 89, 1289-97	10.3	69
5	Copper-glucosamine microcubes: synthesis, characterization, and C-reactive protein detection. <i>Langmuir</i> , <b>2011</b> , 27, 8934-42	4	25
4	Structural and biological evaluation of a multifunctional SWCNT-AgNPs-DNA/PVA bio-nanofilm. <i>Analytical and Bioanalytical Chemistry</i> , <b>2011</b> , 400, 547-60	4.4	18

3	Triad CNT-NPs/Polymer Nanocomposites: Fabrication, Characterization, and Preliminary Antimicrobial Study. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , <b>2011</b> , 41, 345-355	9
2	Nanoparticles: functionalization and multifunctional applications in biomedical sciences. <i>Current Medicinal Chemistry</i> , <b>2010</b> , 17, 4559-77	4-3 211
1	3D printing of Microgel-loaded Modular LEGO-like Cages as Instructive Scaffolds for Tissue Engineering	1