

# Ramesh Subbiah

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

1,427  
citations

304602

22  
h-index

345118

36  
g-index

42  
all docs

42  
docs citations

42  
times ranked

2626  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanoparticles: Functionalization and Multifunctional Applications in Biomedical Sciences. <i>Current Medicinal Chemistry</i> , 2010, 17, 4559-4577.	1.2	261
2	Materials Science and Design Principles of Growth Factor Delivery Systems in Tissue Engineering and Regenerative Medicine. <i>Advanced Healthcare Materials</i> , 2019, 8, e1801000.	3.9	133
3	Osteogenic/Angiogenic Dual Growth Factor Delivery Microcapsules for Regeneration of Vascularized Bone Tissue. <i>Advanced Healthcare Materials</i> , 2015, 4, 1982-1992.	3.9	88
4	N,N,N-Trimethyl chitosan nanoparticles for controlled intranasal delivery of HBV surface antigen. <i>Carbohydrate Polymers</i> , 2012, 89, 1289-1297.	5.1	84
5	Biogenic synthesis of multidimensional gold nanoparticles assisted by <i>Streptomyces hygroscopicus</i> and its electrochemical and antibacterial properties. <i>BioMetals</i> , 2012, 25, 351-360.	1.8	59
6	Dual Growth Factor Delivery Using Biocompatible Core-Shell Microcapsules for Angiogenesis. <i>Small</i> , 2013, 9, 3468-3476.	5.2	52
7	Tribological properties, corrosion resistance and biocompatibility of magnetron sputtered titanium-amorphous carbon coatings. <i>Applied Surface Science</i> , 2016, 371, 262-274.	3.1	49
8	Influence of Growth Parameters on the Formation of Hydroxyapatite (HAp) Nanostructures and Their Cell Viability Studies. <i>Nanobiomedicine</i> , 2015, 2, 2.	4.4	46
9	Effects of controlled dual growth factor delivery on bone regeneration following composite bone-muscle injury. <i>Acta Biomaterialia</i> , 2020, 114, 63-75.	4.1	46
10	3D Printing of Microgel-Loaded Modular Microcages as Instructive Scaffolds for Tissue Engineering. <i>Advanced Materials</i> , 2020, 32, e2001736.	11.1	42
11	Mechanotransduction of human pluripotent stem cells cultivated on tunable cell-derived extracellular matrix. <i>Biomaterials</i> , 2018, 150, 100-111.	5.7	39
12	Novel Platform of Cardiomyocyte Culture and Coculture via Fibroblast-Derived Matrix-Coupled Aligned Electrospun Nanofiber. <i>ACS Applied Materials &amp; Interfaces</i> , 2017, 9, 224-235.	4.0	36
13	Vascular Morphogenesis of Human Umbilical Vein Endothelial Cells on Cell-Derived Macromolecular Matrix Microenvironment. <i>Tissue Engineering - Part A</i> , 2014, 20, 2365-2377.	1.6	35
14	Fibronectin-tethered graphene oxide as an artificial matrix for osteogenesis. <i>Biomedical Materials (Bristol)</i> , 2014, 9, 065003.	1.7	34
15	Tunable Crosslinked Cell-Derived Extracellular Matrix Guides Cell Fate. <i>Macromolecular Bioscience</i> , 2016, 16, 1723-1734.	2.1	32
16	Lipid-based carriers for controlled delivery of nitric oxide. <i>Expert Opinion on Drug Delivery</i> , 2017, 14, 1341-1353.	2.4	30
17	Copper-Glucosamine Microcubes: Synthesis, Characterization, and C-Reactive Protein Detection. <i>Langmuir</i> , 2011, 27, 8934-8942.	1.6	28
18	Approximating bone ECM: Crosslinking directs individual and coupled osteoblast/osteoclast behavior. <i>Biomaterials</i> , 2016, 103, 22-32.	5.7	28

#	ARTICLE	IF	CITATIONS
19	InP/ZnSâ€“graphene oxide and reduced graphene oxide nanocomposites as fascinating materials for potential optoelectronic applications. <i>Nanoscale</i> , 2013, 5, 9793.	2.8	27
20	Cardiomyoblast (H9c2) Differentiation on Tunable Extracellular Matrix Microenvironment. <i>Tissue Engineering - Part A</i> , 2015, 21, 1940-1951.	1.6	27
21	Triple growth factor delivery promotes functional bone regeneration following composite musculoskeletal trauma. <i>Acta Biomaterialia</i> , 2021, 127, 180-192.	4.1	25
22	Stretchable ECM Patch Enhances Stem Cell Delivery for Postâ€“MI Cardiovascular Repair. <i>Advanced Healthcare Materials</i> , 2019, 8, e1900593.	3.9	24
23	The three dimensional cues-integrated-biomaterial potentiates differentiation of human mesenchymal stem cells. <i>Carbohydrate Polymers</i> , 2018, 202, 488-496.	5.1	23
24	Evaluation of cytotoxicity, biophysics and biomechanics of cells treated with functionalized hybrid nanomaterials. <i>Journal of the Royal Society Interface</i> , 2013, 10, 20130694.	1.5	21
25	Structural and biological evaluation of a multifunctional SWCNT-AgNPs-DNA/PVA bio-nanofilm. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 547-560.	1.9	20
26	Effect of chain flexibility on cell adhesion: Semi-flexible model-based analysis of cell adhesion to hydrogels. <i>Scientific Reports</i> , 2019, 9, 2463.	1.6	19
27	Prevascularized hydrogels with mature vascular networks promote the regeneration of criticalâ€“size calvarial bone defects in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2021, 15, 219-231.	1.3	18
28	Surface functionalized magnetic nanoparticles shift cell behavior with on/off magnetic fields. <i>Journal of Cellular Physiology</i> , 2018, 233, 1168-1178.	2.0	17
29	Fibroblast-derived matrix (FDM) as a novel vascular endothelial growth factor delivery platform. <i>Journal of Controlled Release</i> , 2014, 194, 122-129.	4.8	16
30	Dual growth factor-loaded core-shell polymer microcapsules can promote osteogenesis and angiogenesis. <i>Macromolecular Research</i> , 2014, 22, 1320-1329.	1.0	15
31	Investigation of the changes of biophysical/mechanical characteristics of differentiating preosteoblasts in vitro. <i>Biomaterials Research</i> , 2015, 19, 24.	3.2	11
32	Investigation of cellular responses upon interaction with silver nanoparticles. <i>International Journal of Nanomedicine</i> , 2015, 10 Spec Iss, 191.	3.3	11
33	Triad CNT-NPs/Polymer Nanocomposites: Fabrication, Characterization, and Preliminary Antimicrobial Study. <i>Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry</i> , 2011, 41, 345-355.	0.6	10
34	Embedding cells within nanoscale, rapidly mineralizing hydrogels: A new paradigm to engineer cell-laden bone-like tissue. <i>Journal of Structural Biology</i> , 2020, 212, 107636.	1.3	8
35	Elasticity Modulation of Fibroblast-Derived Matrix for Endothelial Cell Vascular Morphogenesis and Mesenchymal Stem Cell Differentiation. <i>Tissue Engineering - Part A</i> , 2016, 22, 415-426.	1.6	4
36	Nanoscale mineralization of cell-laden methacrylated gelatin hydrogels using calcium carbonate - calcium citrate core-shell microparticles. <i>Journal of Materials Chemistry B</i> , 2021, 9, 9583-9593.	2.9	4

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37	Evaluation of cytotoxicity, biophysics and biomechanics of cells treated with functionalized hybrid nanomaterials. Journal of the Royal Society Interface, 2014, 11, 20140676.	1.5	1