

# Asha Shekaran

## List of Publications by Year in descending order

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Version: 2024-02-01

26  
papers

4,273  
citations

257101

24  
h-index

552369

26  
g-index

26  
all docs

26  
docs citations

26  
times ranked

6870  
citing authors

#	ARTICLE	IF	CITATIONS
1	Integrin binding specificity regulates biomaterial surface chemistry effects on cell differentiation. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 5953-5957.	3.3	608
2	Biomaterial strategies for engineering implants for enhanced osseointegration and bone repair. Advanced Drug Delivery Reviews, 2015, 94, 53-62.	6.6	561
3	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. Nature Materials, 2015, 14, 352-360.	13.3	365
4	Biomolecular surface coating to enhance orthopaedic tissue healing and integration. Biomaterials, 2007, 28, 3228-3235.	5.7	228
5	Coating of biomaterial scaffolds with the collagen-mimetic peptide GFOGER for bone defect repair. Biomaterials, 2010, 31, 2574-2582.	5.7	222
6	Integrin specificity and enhanced cellular activities associated with surfaces presenting a recombinant fibronectin fragment compared to RGD supports. Biomaterials, 2006, 27, 5459-5470.	5.7	221
7	The effect of integrin-specific bioactive coatings on tissue healing and implant osseointegration. Biomaterials, 2008, 29, 2849-2857.	5.7	208
8	Extracellular matrix-mimetic adhesive biomaterials for bone repair. Journal of Biomedical Materials Research - Part A, 2011, 96A, 261-272.	2.1	192
9	Microfluidic-Based Generation of Size-Controlled, Biofunctionalized Synthetic Polymer Microgels for Cell Encapsulation. Advanced Materials, 2014, 26, 3003-3008.	11.1	174
10	Engineering integrin-specific surfaces with a triple-helical collagen-mimetic peptide. Journal of Biomedical Materials Research - Part A, 2003, 65A, 511-523.	2.1	164
11	Bone regeneration using an alpha 2 beta 1 integrin-specific hydrogel as a BMP-2 delivery vehicle. Biomaterials, 2014, 35, 5453-5461.	5.7	156
12	Distinct biophysical mechanisms of focal adhesion kinase mechanoactivation by different extracellular matrix proteins. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19372-19377.	3.3	155
13	Vasculogenic bio-synthetic hydrogel for enhancement of pancreatic islet engraftment and function in type 1 diabetes. Biomaterials, 2013, 34, 4602-4611.	5.7	142
14	Hydrogel delivery of lysostaphin eliminates orthopedic implant infection by <i>Staphylococcus aureus</i> and supports fracture healing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4960-E4969.	3.3	138
15	A thixotropic nanocomposite gel for three-dimensional cell culture. Nature Nanotechnology, 2008, 3, 671-675.	15.6	108
16	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. Science Advances, 2016, 2, e1600188.	4.7	104
17	Nanoscale engineering of extracellular matrix-mimetic bioadhesive surfaces and implants for tissue engineering. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 350-360.	1.1	103
18	Engineered VEGF-releasing PEG-MAL hydrogel for pancreatic islet vascularization. Drug Delivery and Translational Research, 2015, 5, 125-136.	3.0	96

#	ARTICLE	IF	CITATIONS
19	Simple coating with fibronectin fragment enhances stainless steel screw osseointegration in healthy and osteoporotic rats. <i>Biomaterials</i> , 2015, 63, 137-145.	5.7	91
20	Simple application of fibronectin-mimetic coating enhances osseointegration of titanium implants. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 2602-2612.	1.6	70
21	The effect of conditional inactivation of beta 1 integrins using twist 2 Cre, Osterix Cre and osteocalcin Cre lines on skeletal phenotype. <i>Bone</i> , 2014, 68, 131-141.	1.4	40
22	Peptide-functionalized poly[oligo(ethylene glycol) methacrylate] brushes on dopamine-coated stainless steel for controlled cell adhesion. <i>Acta Biomaterialia</i> , 2017, 59, 108-116.	4.1	37
23	Engineered matrices for skeletal muscle satellite cell engraftment and function. <i>Matrix Biology</i> , 2017, 60-61, 96-109.	1.5	30
24	Bio-synthetic materials for immunomodulation of islet transplants. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 266-271.	6.6	25
25	Evaluation of encapsulating and microporous nondegradable hydrogel scaffold designs on islet engraftment in rodent models of diabetes. <i>Biotechnology and Bioengineering</i> , 2018, 115, 2356-2364.	1.7	19
26	Engineered Biomaterials for Enhanced Function of Insulin-Secreting $\beta$ Cell Organoids. <i>Advanced Functional Materials</i> , 2020, 30, 2000134.	7.8	16