

# Asha Shekaran

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2863687/publications.pdf>

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	Engineered Biomaterials for Enhanced Function of Insulin-Secreting $\beta$ 2-Cell Organoids. <i>Advanced Functional Materials</i> , 2020, 30, 2000134.	7.8	16
2	Hydrogel delivery of lysostaphin eliminates orthopedic implant infection by <i>Staphylococcus aureus</i> and supports fracture healing. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E4960-E4969.	3.3	138
3	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
4	Engineered matrices for skeletal muscle satellite cell engraftment and function. <i>Matrix Biology</i> , 2017, 60-61, 96-109.	1.5	30
5	Bio-synthetic materials for immunomodulation of islet transplants. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 266-271.	6.6	25
6	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
7	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. <i>Science Advances</i> , 2016, 2, e1600188.	4.7	104
8	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
9	Biomaterial strategies for engineering implants for enhanced osseointegration and bone repair. <i>Advanced Drug Delivery Reviews</i> , 2015, 94, 53-62.	6.6	561
10	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. <i>Nature Materials</i> , 2015, 14, 352-360.	13.3	365
11	Engineered VEGF-releasing PEG-MAL hydrogel for pancreatic islet vascularization. <i>Drug Delivery and Translational Research</i> , 2015, 5, 125-136.	3.0	96
12	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
13	Microfluidic-Based Generation of Size-Controlled, Biofunctionalized Synthetic Polymer Microgels for Cell Encapsulation. <i>Advanced Materials</i> , 2014, 26, 3003-3008.	11.1	174
14	Bone regeneration using an alpha 2 beta 1 integrin-specific hydrogel as a BMP-2 delivery vehicle. <i>Biomaterials</i> , 2014, 35, 5453-5461.	5.7	156
15	Vasculogenic bio-synthetic hydrogel for enhancement of pancreatic islet engraftment and function in type 1 diabetes. <i>Biomaterials</i> , 2013, 34, 4602-4611.	5.7	142
16	Distinct biophysical mechanisms of focal adhesion kinase mechanoactivation by different extracellular matrix proteins. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 19372-19377.	3.3	155
17	Nanoscale engineering of extracellular matrix-mimetic bioadhesive surfaces and implants for tissue engineering. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2011, 1810, 350-360.	1.1	103
18	Extracellular matrix-mimetic adhesive biomaterials for bone repair. <i>Journal of Biomedical Materials Research - Part A</i> , 2011, 96A, 261-272.	2.1	192

#	ARTICLE	IF	CITATIONS
19	Coating of biomaterial scaffolds with the collagen-mimetic peptide GFOGER for bone defect repair. <i>Biomaterials</i> , 2010, 31, 2574-2582.	5.7	222
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 integrin-specific bioactive coatings on tissue healing and implant osseointegration. <i>Biomaterials</i> , 2008, 29, 2849-2857.	5.7	208
22	A thixotropic nanocomposite gel for three-dimensional cell culture. <i>Nature Nanotechnology</i> , 2008, 3, 671-675.	15.6	108
23	Biomolecular surface coating to enhance orthopaedic tissue healing and integration. <i>Biomaterials</i> , 2007, 28, 3228-3235.	5.7	228
24	Integrin specificity and enhanced cellular activities associated with surfaces presenting a recombinant fibronectin fragment compared to RGD supports. <i>Biomaterials</i> , 2006, 27, 5459-5470.	5.7	221
25	Integrin binding specificity regulates biomaterial surface chemistry effects on cell differentiation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 5953-5957.	3.3	608
26	Engineering integrin-specific surfaces with a triple-helical collagen-mimetic peptide. <i>Journal of Biomedical Materials Research - Part A</i> , 2003, 65A, 511-523.	2.1	164