Asha Shekaran

List of Publications by Year
in descending order

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26 papers	4,273 citations	257450 24 h-index	552781 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 Insulinâ€Secreting Î²â€Cell Organoids. Advanced Functional Materials, 2020, 30, 2000134.	14.9	16
2	Hydrogel delivery of lysostaphin eliminates orthopedic implant infection by Staphylococcus aureus and supports fracture healing. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E4960-E4969.	7.1	138
3	Evaluation of encapsulating and microporous nondegradable hydrogel scaffold designs on islet engraftment in rodent models of diabetes. Biotechnology and Bioengineering, 2018, 115, 2356-2364.	3.3	19
4	Engineered matrices for skeletal muscle satellite cell engraftment and function. Matrix Biology, 2017, 60-61, 96-109.	3.6	30
5	Bio-synthetic materials for immunomodulation of islet transplants. Advanced Drug Delivery Reviews, 2017, 114, 266-271.	13.7	25
6	Peptide-functionalized poly[oligo(ethylene glycol) methacrylate] brushes on dopamine-coated stainless steel for controlled cell adhesion. Acta Biomaterialia, 2017, 59, 108-116.	8.3	37
7	Material-driven fibronectin assembly for high-efficiency presentation of growth factors. Science Advances, 2016, 2, e1600188.	10.3	104
8	Simple coating with fibronectin fragment enhances stainless steel screw osseointegration in healthy and osteoporotic rats. Biomaterials, 2015, 63, 137-145.	11.4	91
9	Biomaterial strategies for engineering implants for enhanced osseointegration and bone repair. Advanced Drug Delivery Reviews, 2015, 94, 53-62.	13.7	561
10	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. Nature Materials, 2015, 14, 352-360.	27.5	365
11	Engineered VEGF-releasing PEGâ€“MAL hydrogel for pancreatic islet vascularization. Drug Delivery and Translational Research, 2015, 5, 125-136.	5.8	96
12	The effect of conditional inactivation of beta 1 integrins using twist 2 Cre, Osterix Cre and osteocalcin Cre lines on skeletal phenotype. Bone, 2014, 68, 131-141.	2.9	40
13	Microfluidicâ€Based Generation of Sizeâ€Controlled, Biofunctionalized Synthetic Polymer Microgels for Cell Encapsulation. Advanced Materials, 2014, 26, 3003-3008.	21.0	174
14	Bone regeneration using an alpha 2 beta 1 integrin-specific hydrogel as a BMP-2 delivery vehicle. Biomaterials, 2014, 35, 5453-5461.	11.4	156
15	Vasculogenic bio-synthetic hydrogel for enhancement of pancreatic islet engraftment and function in type 1 diabetes. Biomaterials, 2013, 34, 4602-4611.	11.4	142
16	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.	7.1	155
17	Nanoscale engineering of extracellular matrix-mimetic bioadhesive surfaces and implants for tissue engineering. Biochimica Et Biophysica Acta - General Subjects, 2011, 1810, 350-360.	2.4	103
18	Extracellular matrixâ€mimetic adhesive biomaterials for bone repair. Journal of Biomedical Materials Research - Part A, 2011, 96A, 261-272.	4.0	192

#	Article	IF	Citations
19	Coating of biomaterial scaffolds with the collagen-mimetic peptide GFOGER for bone defect repair. Biomaterials, 2010, 31, 2574-2582.	11.4	222
20	Simple application of fibronectinâ€“mimetic coating enhances osseointegration of titanium implants. Journal of Cellular and Molecular Medicine, 2009, 13, 2602-2612.	3.6	70
21	The effect of integrin-specific bioactive coatings on tissue healing and implant osseointegration. Biomaterials, 2008, 29, 2849-2857.	11.4	208
22	A thixotropic nanocomposite gel for three-dimensional cell culture. Nature Nanotechnology, 2008, 3, 671-675.	31.5	108
23	Biomolecular surface coating to enhance orthopaedic tissue healing and integration. Biomaterials, 2007, 28, 3228-3235.	11.4	228
24	Integrin specificity and enhanced cellular activities associated with surfaces presenting a recombinant fibronectin fragment compared to RGD supports. Biomaterials, 2006, 27, 5459-5470.	11.4	221
25	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.	7.1	608
26	Engineering integrin-specific surfaces with a triple-helical collagen-mimetic peptide. Journal of Biomedical Materials Research - Part A, 2003, 65A, 511-523.	4.0	164