Ankur Singh

List of Publications by Citations

69	2,805	30	52
papers	citations	h-index	g-index
84	3,318	12.4	5.79
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
69	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. *Nature Materials*, **2015**, 14, 352-60	27	319
68	Hydrogels and scaffolds for immunomodulation. *Advanced Materials*, **2014**, 26, 6530-41	24	215
67	How vinculin regulates force transmission. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 9788-93	11.5	175
66	Engineered Nanomaterials for Infection Control and Healing Acute and Chronic Wounds. *ACS Applied Materials & Interfaces*, **2016**, 8, 10049-69	9.5	150
65	In-situ crosslinking hydrogels for combinatorial delivery of chemokines and siRNA-DNA carrying microparticles to dendritic cells. *Biomaterials*, **2009**, 30, 5187-200	15.6	106
64	Radiosensitization by Gold Nanoparticles: Comparison of DNA Damage Induced by Low and High-Energy Electrons. *Journal of Biomedical Nanotechnology*, **2008**, 4, 469-473	4	104
63	Solid freeform fabrication of designer scaffolds of hyaluronic acid for nerve tissue engineering. *Biomedical Microdevices*, **2011**, 13, 983-93	3.7	100
62	Nanopatterning reveals an ECM area threshold for focal adhesion assembly and force transmission that is regulated by integrin activation and cytoskeleton tension. *Journal of Cell Science*, **2012**, 125, 5110-23	5.3	94
61	Adhesion strength-based, label-free isolation of human pluripotent stem cells. *Nature Methods*, **2013**, 10, 438-44	21.6	93
60	Self-assembling nanoparticles for intra-articular delivery of anti-inflammatory proteins. *Biomaterials*, **2012**, 33, 7665-75	15.6	89
59	EZH2 enables germinal centre formation through epigenetic silencing of CDKN1A and an Rb-E2F1 feedback loop. *Nature Communications*, **2017**, 8, 877	17.4	87
58	Ex□vivo engineered immune organoids for controlled germinal center□reactions. *Biomaterials*, **2015**, 63, 24-34	15.6	78
57	Alterations to the Gut Microbiome Impair Bone Strength and Tissue Material Properties. *Journal of Bone and Mineral Research*, **2017**, 32, 1343-1353	6.3	74
56	An injectable synthetic immune-priming center mediates efficient T-cell class switching and T-helper 1 response against B cell lymphoma. *Journal of Controlled Release*, **2011**, 155, 184-92	11.7	66
55	Efficient gene silencing in lungs and liver using imidazole-modified chitosan as a nanocarrier for small interfering RNA. *Oligonucleotides*, **2010**, 20, 163-72		63
54	Integrin □□3 acting as membrane receptor for thyroid hormones mediates angiogenesis in malignant T cells. *Blood*, **2015**, 125, 841-51	2.2	61
53	Immuno-engineered organoids for regulating the kinetics of B-cell development and antibody production. *Nature Protocols*, **2017**, 12, 168-182	18.8	59

52	A microparticle approach to morphogen delivery within pluripotent stem cell aggregates. *Biomaterials*, **2013**, 34, 7227-35	15.6	56
51	Efficient modulation of T-cell response by dual-mode, single-carrier delivery of cytokine-targeted siRNA and DNA vaccine to antigen-presenting cells. *Molecular Therapy*, **2008**, 16, 2011-21	11.7	56
50	Integrin-specific hydrogels as adaptable tumor organoids for malignant B and T cells. *Biomaterials*, **2015**, 73, 110-9	15.6	49
49	Nanoengineered particles for enhanced intra-articular retention and delivery of proteins. *Advanced Healthcare Materials*, **2014**, 3, 1562-7, 1525	10.1	42
48	Eliciting B cell immunity against infectious diseases using nanovaccines. *Nature Nanotechnology*, **2021**, 16, 16-24	28.7	41
47	Self-Assembly Protein Nanogels for Safer Cancer Immunotherapy. *Advanced Healthcare Materials*, **2016**, 5, 1413-9	10.1	40
46	Engineering vaccines and niches for immune modulation. *Acta Biomaterialia*, **2014**, 10, 1728-40	10.8	37
45	Multiscale engineering of immune cells and lymphoid organs. *Nature Reviews Materials*, **2019**, 4, 355-378	73.3	36
44	Single-cell analysis of embryoid body heterogeneity using microfluidic trapping array. *Biomedical Microdevices*, **2014**, 16, 79-90	3.7	34
43	Microfluidic-based patterning of embryonic stem cells for in vitro development studies. *Lab on A Chip*, **2013**, 13, 4617-24	7.2	34
42	Cellular self-assembly and biomaterials-based organoid models of development and diseases. *Acta Biomaterialia*, **2017**, 53, 29-45	10.8	33
41	Biomaterials innovation for next generation ex‐vivo immune tissue engineering. *Biomaterials*, **2017**, 130, 104-110	15.6	31
40	Endogenous lung surfactant inspired pH responsive nanovesicle aerosols: pulmonary compatible and site-specific drug delivery in lung metastases. *Scientific Reports*, **2014**, 4, 7085	4.9	31
39	Microscale Bioadhesive Hydrogel Arrays for Cell Engineering Applications. *Cellular and Molecular Bioengineering*, **2014**, 7, 394-408	3.9	29
38	Engineered microscale hydrogels for drug delivery, cell therapy, and sequencing. *Biomedical Microdevices*, **2019**, 21, 31	3.7	28
37	Point of care technologies for sepsis diagnosis and treatment. *Lab on A Chip*, **2019**, 19, 728-737	7.2	27
36	Ex‐vivo synthetic immune tissues with T cell signals for differentiating antigen-specific, high affinity germinal center B cells. *Biomaterials*, **2019**, 198, 27-36	15.6	26
35	Elastomeric Cell-Laden Nanocomposite Microfibers for Engineering Complex Tissues. *Cellular and Molecular Bioengineering*, **2015**, 8, 404-415	3.9	21

34	Modular Immune Organoids with Integrin Ligand Specificity Differentially Regulate Ex Vivo B Cell Activation. *ACS Biomaterials Science and Engineering*, **2017**, 3, 214-225	5.5	19
33	How Biophysical Forces Regulate Human B Cell Lymphomas. *Cell Reports*, **2018**, 23, 499-511	10.6	19
32	Beyond Tissue Stiffness and Bioadhesivity: Advanced Biomaterials to Model Tumor Microenvironments and Drug Resistance. *Trends in Cancer*, **2018**, 4, 281-291	12.5	19
31	Immunomodulatory nanogels overcome restricted immunity in a murine model of gut microbiome-mediated metabolic syndrome. *Science Advances*, **2019**, 5, eaav9788	14.3	18
30	Drug discovery and therapeutic delivery for the treatment of B and T cell tumors. *Advanced Drug Delivery Reviews*, **2017**, 114, 285-300	18.5	14
29	Self-assembled, ellipsoidal polymeric nanoparticles for intracellular delivery of therapeutics. *Journal of Biomedical Materials Research - Part A*, **2018**, 106, 2048-2058	5.4	14
28	Osteoarthritis: Pathology, Mouse Models, and Nanoparticle Injectable Systems for Targeted Treatment. *Annals of Biomedical Engineering*, **2016**, 44, 2062-75	4.7	14
27	Award Winner in the Young Investigator Category, 2017 Society for Biomaterials Annual Meeting and Exposition, Minneapolis, MN, April 05-08, 2017: Lymph node stiffness-mimicking hydrogels regulate human B-cell lymphoma growth and cell surface receptor expression in a molecular subtype-specific manner. *Journal of Biomedical Materials Research - Part A*, **2017**, 105, 1833-1844	5.4	12
26	Injectable mechanical pillows for attenuation of load-induced post-traumatic osteoarthritis. *International Journal of Energy Production and Management*, **2019**, 6, 211-219	5.3	12
25	Combined EZH2 and Bcl-2 inhibitors as precision therapy for genetically defined DLBCL subtypes. *Blood Advances*, **2020**, 4, 5226-5231	7.8	12
24	Creating artificial lymphoid tissues to study immunity and hematological malignancies. *Current Opinion in Hematology*, **2017**, 24, 377-383	3.3	11
23	Organoid Polymer Functionality and Mode of Membrane Antigen Presentation Regulates Germinal Center Epigenetics in Young and Aged B Cells. *Advanced Functional Materials*, **2020**, 30, 2001232	15.6	11
22	Identification of MALT1 feedback mechanisms enables rational design of potent antilymphoma regimens for ABC-DLBCL. *Blood*, **2021**, 137, 788-800	2.2	6
21	Microscale Technologies for Engineering Complex Tissue Structures **2016**, 3-25		4
20	Microscale Technologies for Cell Engineering **2016**,		3
19	GHz Ultrasonic Chip-Scale Device Induces Ion Channel Stimulation in Human Neural Cells. *Scientific Reports*, **2020**, 10, 3075	4.9	3
18	Extracellular Matrix in Synthetic Hydrogel-Based Prostate Cancer Organoids Regulate Therapeutic Response to EZH2 and DRD2 Inhibitors. *Advanced Materials*, **2021**, e2100096	24	3
17	Materials modulate immunity and gut microbiome. *Nature Materials*, **2020**, 19, 3-4	27	3

List of Publications

16	Photofunctionalization of Materials to Promote Protein and Cell Interactions for Tissue-Engineering Applications **2009**, 297-318		3
15	Extracellular Microenvironment in Patient-derived Hydrogel Organoids of Prostate Cancer Regulates Therapeutic Response		2
14	High fidelity nanopatterning of proteins onto well-defined surfaces through subtractive contact printing. *Methods in Cell Biology*, **2014**, 119, 277-92	1.8	1
13	Drug Delivery: Nanoengineered Particles for Enhanced Intra-Articular Retention and Delivery of Proteins (Adv. Healthcare Mater. 10/2014). *Advanced Healthcare Materials*, **2014**, 3, 1561-1561	10.1	1
12	Convection-enhanced delivery of drugs for deadliest pediatric brain tumors. *Science Translational Medicine*, **2018**, 10, eaau7380	17.5	1
11	Bactericide hydrogel prevents orthopedic implant infections. *Science Translational Medicine*, **2018**, 10,	17.5	1
10	Send in the decoys: Cell-like particles ameliorate inflammatory autoimmune arthritis. *Science Translational Medicine*, **2018**, 10,	17.5	1
9	T cells Mediate Progression of Load-Induced Osteoarthritis		1
8	Microfluidic chip for label-free removal of teratoma-forming cells from therapeutic human stem cells. *Journal of Immunology and Regenerative Medicine*, **2020**, 10, 100030	2.8	1
7	ITK independent development of Th17 responses during hypersensitivity pneumonitis driven lung inflammation.. *Communications Biology*, **2022**, 5, 162	6.7	1
6	Lipid Membrane-Based Antigen Presentation to B Cells Using a Fully Synthetic Ex Vivo Germinal Center Model. *Advanced NanoBiomed Research*,2100137	0	0
5	Biomaterial-Based Modulation of Cancer **2015**, 171-192		
4	Engineering Niches for Stem and Progenitor Cell Differentiation Into Immune Cells **2017**, 547-558		
3	Miniature medicine: nanobiomaterials for therapeutic delivery and cell engineering applications. *IEEE Pulse*, **2014**, 5, 40-3	0.7	
2	Extracellular Matrix in Synthetic Hydrogel-Based Prostate Cancer Organoids Regulate Therapeutic Response to EZH2 and DRD2 Inhibitors (Adv. Mater. 2/2022). *Advanced Materials*, **2022**, 34, 2270014	24	
1	Immunobioengineering Approaches Towards Combinatorial Delivery of Immune-Modulators and Antigens **2013**, 161-181		