

Ankur Singh

List of Publications by Year in descending order

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79

papers

3,779

citations

126907

33

h-index

128289

60

g-index

84

all docs

84

docs citations

84

times ranked

6377

citing authors

#	ARTICLE	IF	CITATIONS
1	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. <i>Nature Materials</i> , 2015, 14, 352-360.	27.5	365
2	Hydrogels and Scaffolds for Immunomodulation. <i>Advanced Materials</i> , 2014, 26, 6530-6541.	21.0	286
3	How vinculin regulates force transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 9788-9793.	7.1	209
4	Engineered Nanomaterials for Infection Control and Healing Acute and Chronic Wounds. <i>ACS Applied Materials & Interfaces</i> , 2016, 8, 10049-10069.	8.0	206
5	Silver Nanoparticles Inhibit Replication of Respiratory Syncytial Virus. <i>Journal of Biomedical Nanotechnology</i> , 2008, 4, 149-158.	1.1	149
6	EZH2 enables germinal centre formation through epigenetic silencing of CDKN1A and an Rb-E2F1 feedback loop. <i>Nature Communications</i> , 2017, 8, 877.	12.8	132
7	In-situ crosslinking hydrogels for combinatorial delivery of chemokines and siRNAâ€“DNA carrying microparticles to dendritic cells. <i>Biomaterials</i> , 2009, 30, 5187-5200.	11.4	118
8	Self-assembling nanoparticles for intra-articular delivery of anti-inflammatory proteins. <i>Biomaterials</i> , 2012, 33, 7665-7675.	11.4	113
9	Solid freeform fabrication of designer scaffolds of hyaluronic acid for nerve tissue engineering. <i>Biomedical Microdevices</i> , 2011, 13, 983-993.	2.8	112
10	Nanopatterning Reveals an ECM Area Threshold for Focal Adhesion Assembly and Force Transmission that is regulated by Integrin Activation and Cytoskeleton Tension. <i>Journal of Cell Science</i> , 2012, 125, 5110-23.	2.0	111
11	Adhesion strengthâ€“based, label-free isolation of human pluripotent stem cells. <i>Nature Methods</i> , 2013, 10, 438-444.	19.0	110
12	Alterations to the Gut Microbiome Impair Bone Strength and Tissue Material Properties. <i>Journal of Bone and Mineral Research</i> , 2017, 32, 1343-1353.	2.8	109
13	Eliciting B cell immunity against infectious diseases using nanovaccines. <i>Nature Nanotechnology</i> , 2021, 16, 16-24.	31.5	109
14	Exâ€“vivo engineered immune organoids for controlled germinal centerâ€“reactions. <i>Biomaterials</i> , 2015, 63, 24-34.	11.4	108
15	Immuno-engineered organoids for regulating the kinetics of B-cell development and antibody production. <i>Nature Protocols</i> , 2017, 12, 168-182.	12.0	84
16	Integrin $\alpha 2 \beta 3$ acting as membrane receptor for thyroid hormones mediates angiogenesis in malignant T cells. <i>Blood</i> , 2015, 125, 841-851.	1.4	74
17	Efficient Gene Silencing in Lungs and Liver Using Imidazole-Modified Chitosan As a Nanocarrier for Small Interfering RNA. <i>Oligonucleotides</i> , 2010, 20, 163-172.	2.7	72
18	An injectable synthetic immune-priming center mediates efficient T-cell class switching and T-helper 1 response against B cell lymphoma. <i>Journal of Controlled Release</i> , 2011, 155, 184-192.	9.9	72

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19	A microparticle approach to morphogen delivery within pluripotent stem cell aggregates. <i>Biomaterials</i> , 2013, 34, 7227-7235.	11.4	67
20	Integrin-specific hydrogels as adaptable tumor organoids for malignant B and T cells. <i>Biomaterials</i> , 2015, 73, 110-119.	11.4	66
21	Efficient Modulation of T-cell Response by Dual-mode, Single-carrier Delivery of Cytokine-targeted siRNA and DNA Vaccine to Antigen-presenting Cells. <i>Molecular Therapy</i> , 2008, 16, 2011-2021.	8.2	61
22	Nanoengineered Particles for Enhanced Intra-articular Retention and Delivery of Proteins. <i>Advanced Healthcare Materials</i> , 2014, 3, 1562-1567.	7.6	55
23	Multiscale engineering of immune cells and lymphoid organs. <i>Nature Reviews Materials</i> , 2019, 4, 355-378.	48.7	55
24	Engineered microscale hydrogels for drug delivery, cell therapy, and sequencing. <i>Biomedical Microdevices</i> , 2019, 21, 31.	2.8	50
25	Self-Assembly Protein Nanogels for Safer Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , 2016, 5, 1413-1419.	7.6	48
26	Point of care technologies for sepsis diagnosis and treatment. <i>Lab on A Chip</i> , 2019, 19, 728-737.	6.0	47
27	Cellular self-assembly and biomaterials-based organoid models of development and diseases. <i>Acta Biomaterialia</i> , 2017, 53, 29-45.	8.3	45
28	Engineering vaccines and niches for immune modulation. <i>Acta Biomaterialia</i> , 2014, 10, 1728-1740.	8.3	42
29	Microfluidic-based patterning of embryonic stem cells for in vitro development studies. <i>Lab on A Chip</i> , 2013, 13, 4617.	6.0	40
30	Endogenous lung surfactant inspired pH responsive nanovesicle aerosols: Pulmonary compatible and site-specific drug delivery in lung metastases. <i>Scientific Reports</i> , 2014, 4, 7085.	3.3	39
31	Ex vivo synthetic immune tissues with T cell signals for differentiating antigen-specific, high affinity germinal center B cells. <i>Biomaterials</i> , 2019, 198, 27-36.	11.4	39
32	Microscale Bioadhesive Hydrogel Arrays for Cell Engineering Applications. <i>Cellular and Molecular Bioengineering</i> , 2014, 7, 394-408.	2.1	37
33	Biomaterials innovation for next generation ex vivo immune tissue engineering. <i>Biomaterials</i> , 2017, 130, 104-110.	11.4	37
34	Single-cell analysis of embryoid body heterogeneity using microfluidic trapping array. <i>Biomedical Microdevices</i> , 2014, 16, 79-90.	2.8	36
35	Beyond Tissue Stiffness and Bioadhesivity: Advanced Biomaterials to Model Tumor Microenvironments and Drug Resistance. <i>Trends in Cancer</i> , 2018, 4, 281-291.	7.4	36
36	How Biophysical Forces Regulate Human B Cell Lymphomas. <i>Cell Reports</i> , 2018, 23, 499-511.	6.4	30

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37	Immunomodulatory nanogels overcome restricted immunity in a murine model of gut microbiome-mediated metabolic syndrome. <i>Science Advances</i> , 2019, 5, eaav9788.	10.3	29
38	Modular Immune Organoids with Integrin Ligand Specificity Differentially Regulate Ex Vivo B Cell Activation. <i>ACS Biomaterials Science and Engineering</i> , 2017, 3, 214-225.	5.2	28
39	Combined EZH2 and Bcl-2 inhibitors as precision therapy for genetically defined DLBCL subtypes. <i>Blood Advances</i> , 2020, 4, 5226-5231.	5.2	28
40	Osteoarthritis: Pathology, Mouse Models, and Nanoparticle Injectable Systems for Targeted Treatment. <i>Annals of Biomedical Engineering</i> , 2016, 44, 2062-2075.	2.5	27
41	Intravital three-photon microscopy allows visualization over the entire depth of mouse lymph nodes. <i>Nature Immunology</i> , 2022, 23, 330-340.	14.5	26
42	Extracellular Matrix in Synthetic Hydrogel-Based Prostate Cancer Organoids Regulate Therapeutic Response to EZH2 and DRD2 Inhibitors. <i>Advanced Materials</i> , 2022, 34, e2100096.	21.0	24
43	Elastomeric Cell-Laden Nanocomposite Microfibers for Engineering Complex Tissues. <i>Cellular and Molecular Bioengineering</i> , 2015, 8, 404-415.	2.1	23
44	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. <i>Journal of Biomedical Materials Research - Part A</i> , 2017, 105, 1833-1844.	4.0	23
45	Self-assembled, ellipsoidal polymeric nanoparticles for intracellular delivery of therapeutics. <i>Journal of Biomedical Materials Research - Part A</i> , 2018, 106, 2048-2058.	4.0	22
46	Identification of MALT1 feedback mechanisms enables rational design of potent antilymphoma regimens for ABC-DLBCL. <i>Blood</i> , 2021, 137, 788-800.	1.4	22
47	Injectable mechanical pillows for attenuation of load-induced post-traumatic osteoarthritis. <i>International Journal of Energy Production and Management</i> , 2019, 6, 211-219.	3.7	21
48	Drug discovery and therapeutic delivery for the treatment of B and T cell tumors. <i>Advanced Drug Delivery Reviews</i> , 2017, 114, 285-300.	13.7	20
49	Organoid Polymer Functionality and Mode of <i>Klebsiella pneumoniae</i> Membrane Antigen Presentation Regulates Ex Vivo Germinal Center Epigenetics in Young and Aged B Cells. <i>Advanced Functional Materials</i> , 2020, 30, 2001232.	14.9	19
50	GHz Ultrasonic Chip-Scale Device Induces Ion Channel Stimulation in Human Neural Cells. <i>Scientific Reports</i> , 2020, 10, 3075.	3.3	14
51	Creating artificial lymphoid tissues to study immunity and hematological malignancies. <i>Current Opinion in Hematology</i> , 2017, 24, 377-383.	2.5	13
52	Microbiome as an immune regulator in health, disease, and therapeutics. <i>Advanced Drug Delivery Reviews</i> , 2022, 188, 114400.	13.7	11
53	Materials modulate immunity and gut microbiome. <i>Nature Materials</i> , 2020, 19, 3-4.	27.5	10
54	Microscale Technologies for Engineering Complex Tissue Structures. , 2016, , 3-25.		6

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55	Engineering early memory Bâ€cellâ€™like phenotype in hydrogelâ€based immune organoids. Journal of Biomedical Materials Research - Part A, 2022, 110, 1435-1447.	4.0	5
56	Immuno-engineering: The Next Frontier in Therapeutics Delivery. Advanced Drug Delivery Reviews, 2017, 114, 1-2.	13.7	4
57	Biomaterials, Cells, and Patho-physiology: Building Better Organoids and On-Chip Technologies. Biomaterials, 2019, 198, 1-2.	11.4	4
58	Photofunctionalization of Materials to Promote Protein and Cell Interactions for Tissue-Engineering Applications. , 2009, , 297-318.		4
59	Microscale Technologies for Cell Engineering. , 2016, , .		3
60	ITK independent development of Th17 responses during hypersensitivity pneumonitis driven lung inflammation. Communications Biology, 2022, 5, 162.	4.4	3
61	High Fidelity Nanopatterning of Proteins onto Well-Defined Surfaces Through Subtractive Contact Printing. Methods in Cell Biology, 2014, 119, 277-292.	1.1	2
62	Miniature Medicine: Nanobiomaterials for therapeutic delivery and cell engineering applications. IEEE Pulse, 2014, 5, 40-43.	0.3	2
63	Breaking the Barriers in Engineering Organoids and Tissues with Advanced Materials. Advanced Functional Materials, 2020, 30, 2008531.	14.9	2
64	Microfluidic chip for label-free removal of teratoma-forming cells from therapeutic human stem cells. Journal of Immunology and Regenerative Medicine, 2020, 10, 100030.	0.4	2
65	Lipid Membraneâ€Based Antigen Presentation to B Cells Using a Fully Synthetic Ex Vivo Germinal Center Model. Advanced NanoBiomed Research, 2022, 2, .	3.6	2
66	Corrigendum to â€œIn-situ crosslinking hydrogels for combinatorial delivery of chemokines and siRNAâ€DNA carrying microparticles to dendritic cellsâ€[Biomaterials 30 (2009) 5187â€5200]. Biomaterials, 2010, 31, 1460.	11.4	1
67	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.	7.6	1
68	Convection-enhanced delivery of drugs for deadliest pediatric brain tumors. Science Translational Medicine, 2018, 10, .	12.4	1
69	Bactericide hydrogel prevents orthopedic implant infections. Science Translational Medicine, 2018, 10, .	12.4	1
70	Send in the decoys: Cell-like particles ameliorate inflammatory autoimmune arthritis. Science Translational Medicine, 2018, 10, .	12.4	1
71	Engineering Niches for Stem and Progenitor Cell Differentiation Into Immune Cells. , 2017, , 547-558.		0
72	Editorial: Probing the Chromatin Architecture. Frontiers in Cell and Developmental Biology, 2021, 9, 727803.	3.7	0

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73	Adhesive Signature-Based, Label-Free Isolation of Human Pluripotent Stem Cells. , 2012, , .		0
74	Immunobioengineering Approaches Towards Combinatorial Delivery of Immune-Modulators and Antigens. , 2013, , 161-181.		0
75	No one is naïve: Young infant's immunity can dodge Darwinian selection. Science Translational Medicine, 2018, 10, .	12.4	0
76	Targeting a conserved epitope: A new chink in malaria's armor. Science Translational Medicine, 2018, 10, .	12.4	0
77	Charting the course of metastatic cells. Science Translational Medicine, 2018, 10, .	12.4	0
78	T cells, the last samurai against humoral rejection in lung transplants. Science Translational Medicine, 2019, 11, .	12.4	0
79	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, .	21.0	0