

Ankur Singh

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

69
papers

2,805
citations

30
h-index

52
g-index

84
ext. papers

3,318
ext. citations

12.4
avg, IF

5.79
L-index

#	Paper	IF	Citations
69	Extracellular Matrix in Synthetic Hydrogel-Based Prostate Cancer Organoids Regulate Therapeutic Response to EZH2 and DRD2 Inhibitors (Adv. Mater. 2/2022). <i>Advanced Materials</i> , 2022 , 34, 2270014	24	
68	ITK independent development of Th17 responses during hypersensitivity pneumonitis driven lung inflammation.. <i>Communications Biology</i> , 2022 , 5, 162	6.7	1
67	Extracellular Matrix in Synthetic Hydrogel-Based Prostate Cancer Organoids Regulate Therapeutic Response to EZH2 and DRD2 Inhibitors. <i>Advanced Materials</i> , 2021 , e2100096	24	3
66	Identification of MALT1 feedback mechanisms enables rational design of potent antilymphoma regimens for ABC-DLBCL. <i>Blood</i> , 2021 , 137, 788-800	2.2	6
65	Eliciting B cell immunity against infectious diseases using nanovaccines. <i>Nature Nanotechnology</i> , 2021 , 16, 16-24	28.7	41
64	Organoid Polymer Functionality and Mode of Membrane Antigen Presentation Regulates Germinal Center Epigenetics in Young and Aged B Cells. <i>Advanced Functional Materials</i> , 2020 , 30, 2001232	15.6	11
63	GHz Ultrasonic Chip-Scale Device Induces Ion Channel Stimulation in Human Neural Cells. <i>Scientific Reports</i> , 2020 , 10, 3075	4.9	3
62	Microfluidic chip for label-free removal of teratoma-forming cells from therapeutic human stem cells. <i>Journal of Immunology and Regenerative Medicine</i> , 2020 , 10, 100030	2.8	1
61	Materials modulate immunity and gut microbiome. <i>Nature Materials</i> , 2020 , 19, 3-4	27	3
60	Combined EZH2 and Bcl-2 inhibitors as precision therapy for genetically defined DLBCL subtypes. <i>Blood Advances</i> , 2020 , 4, 5226-5231	7.8	12
59	Engineered microscale hydrogels for drug delivery, cell therapy, and sequencing. <i>Biomedical Microdevices</i> , 2019 , 21, 31	3.7	28
58	Immunomodulatory nanogels overcome restricted immunity in a murine model of gut microbiome-mediated metabolic syndrome. <i>Science Advances</i> , 2019 , 5, eaav9788	14.3	18
57	Multiscale engineering of immune cells and lymphoid organs. <i>Nature Reviews Materials</i> , 2019 , 4, 355-378	73.3	36
56	Point of care technologies for sepsis diagnosis and treatment. <i>Lab on A Chip</i> , 2019 , 19, 728-737	7.2	27
55	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	15.6	26
54	Injectable mechanical pillows for attenuation of load-induced post-traumatic osteoarthritis. <i>International Journal of Energy Production and Management</i> , 2019 , 6, 211-219	5.3	12
53	Self-assembled, ellipsoidal polymeric nanoparticles for intracellular delivery of therapeutics. <i>Journal of Biomedical Materials Research - Part A</i> , 2018 , 106, 2048-2058	5.4	14

52	How Biophysical Forces Regulate Human B Cell Lymphomas. <i>Cell Reports</i> , 2018 , 23, 499-511	10.6	19
51	Beyond Tissue Stiffness and Bioadhesivity: Advanced Biomaterials to Model Tumor Microenvironments and Drug Resistance. <i>Trends in Cancer</i> , 2018 , 4, 281-291	12.5	19
50	Convection-enhanced delivery of drugs for deadliest pediatric brain tumors. <i>Science Translational Medicine</i> , 2018 , 10, eaau7380	17.5	1
49	Bactericide hydrogel prevents orthopedic implant infections. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	1
48	Send in the decoys: Cell-like particles ameliorate inflammatory autoimmune arthritis. <i>Science Translational Medicine</i> , 2018 , 10,	17.5	1
47	Cellular self-assembly and biomaterials-based organoid models of development and diseases. <i>Acta Biomaterialia</i> , 2017 , 53, 29-45	10.8	33
46	Alterations to the Gut Microbiome Impair Bone Strength and Tissue Material Properties. <i>Journal of Bone and Mineral Research</i> , 2017 , 32, 1343-1353	6.3	74
45	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	5.4	12
44	Creating artificial lymphoid tissues to study immunity and hematological malignancies. <i>Current Opinion in Hematology</i> , 2017 , 24, 377-383	3.3	11
43	Drug discovery and therapeutic delivery for the treatment of B and T cell tumors. <i>Advanced Drug Delivery Reviews</i> , 2017 , 114, 285-300	18.5	14
42	Biomaterials innovation for next generation ex vivo immune tissue engineering. <i>Biomaterials</i> , 2017 , 130, 104-110	15.6	31
41	Immuno-engineered organoids for regulating the kinetics of B-cell development and antibody production. <i>Nature Protocols</i> , 2017 , 12, 168-182	18.8	59
40	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	5.5	19
39	EZH2 enables germinal centre formation through epigenetic silencing of CDKN1A and an Rb-E2F1 feedback loop. <i>Nature Communications</i> , 2017 , 8, 877	17.4	87
38	Engineering Niches for Stem and Progenitor Cell Differentiation Into Immune Cells 2017 , 547-558		
37	Microscale Technologies for Cell Engineering 2016 ,		3
36	Microscale Technologies for Engineering Complex Tissue Structures 2016 , 3-25		4
35	Self-Assembly Protein Nanogels for Safer Cancer Immunotherapy. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1413-9	10.1	40

34	Engineered Nanomaterials for Infection Control and Healing Acute and Chronic Wounds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 10049-69	9.5	150
33	Osteoarthritis: Pathology, Mouse Models, and Nanoparticle Injectable Systems for Targeted Treatment. <i>Annals of Biomedical Engineering</i> , 2016 , 44, 2062-75	4.7	14
32	Elastomeric Cell-Laden Nanocomposite Microfibers for Engineering Complex Tissues. <i>Cellular and Molecular Bioengineering</i> , 2015 , 8, 404-415	3.9	21
31	Integrin $\alpha 5 \beta 1$ acting as membrane receptor for thyroid hormones mediates angiogenesis in malignant T cells. <i>Blood</i> , 2015 , 125, 841-51	2.2	61
30	Biomaterial-Based Modulation of Cancer 2015 , 171-192		
29	Integrin-specific hydrogels as adaptable tumor organoids for malignant B and T cells. <i>Biomaterials</i> , 2015 , 73, 110-9	15.6	49
28	Light-triggered in vivo activation of adhesive peptides regulates cell adhesion, inflammation and vascularization of biomaterials. <i>Nature Materials</i> , 2015 , 14, 352-60	27	319
27	Ex vivo engineered immune organoids for controlled germinal center reactions. <i>Biomaterials</i> , 2015 , 63, 24-34	15.6	78
26	Single-cell analysis of embryoid body heterogeneity using microfluidic trapping array. <i>Biomedical Microdevices</i> , 2014 , 16, 79-90	3.7	34
25	High fidelity nanopatterning of proteins onto well-defined surfaces through subtractive contact printing. <i>Methods in Cell Biology</i> , 2014 , 119, 277-92	1.8	1
24	Drug Delivery: Nanoengineered Particles for Enhanced Intra-Articular Retention and Delivery of Proteins (Adv. Healthcare Mater. 10/2014). <i>Advanced Healthcare Materials</i> , 2014 , 3, 1561-1561	10.1	1
23	Hydrogels and scaffolds for immunomodulation. <i>Advanced Materials</i> , 2014 , 26, 6530-41	24	215
22	Miniature medicine: nanobiomaterials for therapeutic delivery and cell engineering applications. <i>IEEE Pulse</i> , 2014 , 5, 40-3	0.7	
21	Microscale Bioadhesive Hydrogel Arrays for Cell Engineering Applications. <i>Cellular and Molecular Bioengineering</i> , 2014 , 7, 394-408	3.9	29
20	Engineering vaccines and niches for immune modulation. <i>Acta Biomaterialia</i> , 2014 , 10, 1728-40	10.8	37
19	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	4.9	31
18	Nanoengineered particles for enhanced intra-articular retention and delivery of proteins. <i>Advanced Healthcare Materials</i> , 2014 , 3, 1562-7, 1525	10.1	42
17	A microparticle approach to morphogen delivery within pluripotent stem cell aggregates. <i>Biomaterials</i> , 2013 , 34, 7227-35	15.6	56

16	How vinculin regulates force transmission. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 9788-93	11.5	175
15	Microfluidic-based patterning of embryonic stem cells for in vitro development studies. <i>Lab on a Chip</i> , 2013 , 13, 4617-24	7.2	34
14	Adhesion strength-based, label-free isolation of human pluripotent stem cells. <i>Nature Methods</i> , 2013 , 10, 438-44	21.6	93
13	Immunobioengineering Approaches Towards Combinatorial Delivery of Immune-Modulators and Antigens 2013 , 161-181		
12	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	5.3	94
11	Self-assembling nanoparticles for intra-articular delivery of anti-inflammatory proteins. <i>Biomaterials</i> , 2012 , 33, 7665-75	15.6	89
10	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, 184-92	11.7	66
9	Solid freeform fabrication of designer scaffolds of hyaluronic acid for nerve tissue engineering. <i>Biomedical Microdevices</i> , 2011 , 13, 983-93	3.7	100
8	Efficient gene silencing in lungs and liver using imidazole-modified chitosan as a nanocarrier for small interfering RNA. <i>Oligonucleotides</i> , 2010 , 20, 163-72		63
7	In-situ crosslinking hydrogels for combinatorial delivery of chemokines and siRNA-DNA carrying microparticles to dendritic cells. <i>Biomaterials</i> , 2009 , 30, 5187-200	15.6	106
6	Photofunctionalization of Materials to Promote Protein and Cell Interactions for Tissue-Engineering Applications 2009 , 297-318		3
5	Radiosensitization by Gold Nanoparticles: Comparison of DNA Damage Induced by Low and High-Energy Electrons. <i>Journal of Biomedical Nanotechnology</i> , 2008 , 4, 469-473	4	104
4	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, 2011-21	11.7	56
3	T cells Mediate Progression of Load-Induced Osteoarthritis		1
2	Extracellular Microenvironment in Patient-derived Hydrogel Organoids of Prostate Cancer Regulates Therapeutic Response		2
1	Lipid Membrane-Based Antigen Presentation to B Cells Using a Fully Synthetic Ex Vivo Germinal Center Model. <i>Advanced NanoBiomed Research</i> , 2100137	0	0