

Manish Butte

List of Publications by Citations

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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.

119
papers

11,966
citations

36
h-index

109
g-index

141
ext. papers

14,155
ext. citations

9.6
avg, IF

6.28
L-index

#	Paper	IF	Citations
119	PD-1 and its ligands in tolerance and immunity. <i>Annual Review of Immunology</i> , 2008 , 26, 677-704	34.7	3557
118	Patterned paper as a platform for inexpensive, low-volume, portable bioassays. <i>Angewandte Chemie - International Edition</i> , 2007 , 46, 1318-20	16.4	2111
117	Programmed death-1 ligand 1 interacts specifically with the B7-1 costimulatory molecule to inhibit T cell responses. <i>Immunity</i> , 2007 , 27, 111-22	32.3	1206
116	Patient-specific induced pluripotent stem cells as a model for familial dilated cardiomyopathy. <i>Science Translational Medicine</i> , 2012 , 4, 130ra47	17.5	497
115	TIM-1 and TIM-4 glycoproteins bind phosphatidylserine and mediate uptake of apoptotic cells. <i>Immunity</i> , 2007 , 27, 927-40	32.3	461
114	Epicardial FSTL1 reconstitution regenerates the adult mammalian heart. <i>Nature</i> , 2015 , 525, 479-85	50.4	309
113	Differential fates of biomolecules delivered to target cells via extracellular vesicles. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015 , 112, E1433-42	11.5	296
112	Thread as a matrix for biomedical assays. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1722-8	9.5	200
111	Topological and phenomenological classification of bursting oscillations. <i>Bulletin of Mathematical Biology</i> , 1995 , 57, 413-39	2.1	194
110	Interaction of human PD-L1 and B7-1. <i>Molecular Immunology</i> , 2008 , 45, 3567-72	4.3	184
109	Endothelial programmed death-1 ligand 1 (PD-L1) regulates CD8+ T-cell mediated injury in the heart. <i>Circulation</i> , 2007 , 116, 2062-71	16.7	164
108	Strain-enhanced stress relaxation impacts nonlinear elasticity in collagen gels. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 5492-7	11.5	146
107	The effect of bioengineered acellular collagen patch on cardiac remodeling and ventricular function post myocardial infarction. <i>Biomaterials</i> , 2013 , 34, 9048-55	15.6	133
106	Adult enteric nervous system in health is maintained by a dynamic balance between neuronal apoptosis and neurogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017 , 114, E3709-E3718	11.5	127
105	A Global Effort to Define the Human Genetics of Protective Immunity to SARS-CoV-2 Infection. <i>Cell</i> , 2020 , 181, 1194-1199	56.2	113
104	T cell activation requires force generation. <i>Journal of Cell Biology</i> , 2016 , 213, 535-42	7.3	101
103	Broad-spectrum antibodies against self-antigens and cytokines in RAG deficiency. <i>Journal of Clinical Investigation</i> , 2015 , 125, 4135-48	15.9	94

102	Atomic force mechanobiology of pluripotent stem cell-derived cardiomyocytes. <i>PLoS ONE</i> , 2012 , 7, e37559	3.9	88
101	The Role of the Anti-Inflammatory Cytokine Interleukin-10 in Tissue Fibrosis. <i>Advances in Wound Care</i> , 2020 , 9, 184-198	4.8	88
100	Dependence of avidity on linker length for a bivalent ligand-bivalent receptor model system. <i>Journal of the American Chemical Society</i> , 2012 , 134, 333-45	16.4	83
99	Newborn Screening for Severe Combined Immunodeficiency and T-cell Lymphopenia in California, 2010-2017. <i>Pediatrics</i> , 2019 , 143,	7.4	82
98	Quantitative Deformability Cytometry: Rapid, Calibrated Measurements of Cell Mechanical Properties. <i>Biophysical Journal</i> , 2017 , 113, 1574-1584	2.9	68
97	Cell encapsulation in sub-mm sized gel modules using replica molding. <i>PLoS ONE</i> , 2008 , 3, e2258	3.7	67
96	Characterization of T and B cell repertoire diversity in patients with RAG deficiency. <i>Science Immunology</i> , 2016 , 1,	28	62
95	Diagnostic utility of transcriptome sequencing for rare Mendelian diseases. <i>Genetics in Medicine</i> , 2020 , 22, 490-499	8.1	60
94	Polyvinylpyrrolidone microneedles enable delivery of intact proteins for diagnostic and therapeutic applications. <i>Acta Biomaterialia</i> , 2013 , 9, 7767-74	10.8	55
93	PRKDC mutations associated with immunodeficiency, granuloma, and autoimmune regulator-dependent autoimmunity. <i>Journal of Allergy and Clinical Immunology</i> , 2015 , 135, 1578-88.e5	11.5	52
92	Crystal structure of neurotrophin-3 homodimer shows distinct regions are used to bind its receptors. <i>Biochemistry</i> , 1998 , 37, 16846-52	3.2	49
91	Interleukin-10-mediated regenerative postnatal tissue repair is dependent on regulation of hyaluronan metabolism fibroblast-specific STAT3 signaling. <i>FASEB Journal</i> , 2017 , 31, 868-881	0.9	43
90	Pediatric myocardial infarction after racemic epinephrine administration. <i>Pediatrics</i> , 1999 , 104, e9	7.4	43
89	Outcomes and Treatment Strategies for Autoimmunity and Hyperinflammation in Patients with RAG Deficiency. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019 , 7, 1970-1985.e4	5.4	41
88	Cytoskeletal adaptivity regulates T cell receptor signaling. <i>Science Signaling</i> , 2017 , 10,	8.8	40
87	Hyaluronan synthesis is necessary for autoreactive T-cell trafficking, activation, and Th1 polarization. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016 , 113, 1339-44	11.5	39
86	CRISPR-based gene editing enables gene repair in IPEX patient cells. <i>Science Advances</i> , 2020 , 6, eaaz0571	14.3	38
85	YAP-dependent mechanotransduction is required for proliferation and migration on native-like substrate topography. <i>Biomaterials</i> , 2017 , 115, 155-166	15.6	37

84	A comprehensive iterative approach is highly effective in diagnosing individuals who are exome negative. <i>Genetics in Medicine</i> , 2019 , 21, 161-172	8.1	36
83	Dominant-negative mutations in human IL6ST underlie hyper-IgE syndrome. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	36
82	Human amniotic mesenchymal stem cell-derived induced pluripotent stem cells may generate a universal source of cardiac cells. <i>Stem Cells and Development</i> , 2012 , 21, 2798-808	4.4	35
81	Apelin enhances directed cardiac differentiation of mouse and human embryonic stem cells. <i>PLoS ONE</i> , 2012 , 7, e38328	3.7	33
80	Multi-cellular interactions sustain long-term contractility of human pluripotent stem cell-derived cardiomyocytes. <i>American Journal of Translational Research (discontinued)</i> , 2014 , 6, 724-35	3	32
79	NKp46 Clusters at the Immune Synapse and Regulates NK Cell Polarization. <i>Frontiers in Immunology</i> , 2015 , 6, 495	8.4	31
78	Lysosomal Storage and Albinism Due to Effects of a De Novo CLCN7 Variant on Lysosomal Acidification. <i>American Journal of Human Genetics</i> , 2019 , 104, 1127-1138	11	30
77	Hyaluronan content governs tissue stiffness in pancreatic islet inflammation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 567-578	5.4	29
76	CD28 costimulation regulates genome-wide effects on alternative splicing. <i>PLoS ONE</i> , 2012 , 7, e40032	3.7	29
75	Real-time GPU-based 3D Deconvolution. <i>Optics Express</i> , 2013 , 21, 4766-73	3.3	29
74	Heterozygous FOXP1 Variants Cause Low TRECs and Severe T Cell Lymphopenia, Revealing a Crucial Role of FOXP1 in Supporting Early Thymopoiesis. <i>American Journal of Human Genetics</i> , 2019 , 105, 549-561	11	28
73	Swab-Seq: A high-throughput platform for massively scaled up SARS-CoV-2 testing 2021 ,		28
72	Spectrum of neurodevelopmental disease associated with the GNAO1 guanosine triphosphate-binding region. <i>Epilepsia</i> , 2019 , 60, 406-418	6.4	26
71	Prevalence and clinical challenges among adults with primary immunodeficiency and recombination-activating gene deficiency. <i>Journal of Allergy and Clinical Immunology</i> , 2018 , 141, 2303-2308	11.5	25
70	IL-7 receptor deficient SCID with a unique intronic mutation and post-transplant autoimmunity due to chronic GVHD. <i>Clinical Immunology</i> , 2007 , 125, 159-64	9	25
69	T-cell activation is modulated by the 3D mechanical microenvironment. <i>Biomaterials</i> , 2020 , 252, 120058	15.6	24
68	T Lymphocytes Attenuate Dermal Scarring by Regulating Inflammation, Neovascularization, and Extracellular Matrix Remodeling. <i>Advances in Wound Care</i> , 2019 , 8, 527-537	4.8	24
67	Winner of the Young Investigator Award of the Society for Biomaterials at the 10th World Biomaterials Congress, May 17-22, 2016, Montreal QC, Canada: Microribbon-based hydrogels accelerate stem cell-based bone regeneration in a mouse critical-size cranial defect model. <i>Journal of Biomedical Materials Research Part A</i> , 2016 , 104, 1321-31	5.4	24

66	Neurotrophic factor structures reveal clues to evolution, binding, specificity, and receptor activation. <i>Cellular and Molecular Life Sciences</i> , 2001 , 58, 1003-13	10.3	23
65	Prior diagnoses and medications as risk factors for COVID-19 in a Los Angeles Health System 2020 ,		22
64	De novo EIF2AK1 and EIF2AK2 Variants Are Associated with Developmental Delay, Leukoencephalopathy, and Neurologic Decompensation. <i>American Journal of Human Genetics</i> , 2020 , 106, 570-583	11	21
63	Unraveling the mechanobiology of immune cells. <i>Current Opinion in Biotechnology</i> , 2020 , 66, 236-245	11.4	20
62	De Novo Variants in WDR37 Are Associated with Epilepsy, Colobomas, Dysmorphism, Developmental Delay, Intellectual Disability, and Cerebellar Hypoplasia. <i>American Journal of Human Genetics</i> , 2019 , 105, 413-424	11	19
61	Functional studies of the BTB domain in the Drosophila GAGA and Mod(mdg4) proteins. <i>Nucleic Acids Research</i> , 2000 , 28, 3864-70	20.1	19
60	Partial Loss of USP9X Function Leads to a Male Neurodevelopmental and Behavioral Disorder Converging on Transforming Growth Factor β Signaling. <i>Biological Psychiatry</i> , 2020 , 87, 100-112	7.9	19
59	Treatment of CGD-associated Colitis with the IL-23 Blocker Ustekinumab. <i>Journal of Clinical Immunology</i> , 2016 , 36, 619-20	5.7	18
58	Use of bio-mimetic three-dimensional technology in therapeutics for heart disease. <i>Bioengineered</i> , 2014 , 5, 193-7	5.7	18
57	De Novo Pathogenic Variants in N-cadherin Cause a Syndromic Neurodevelopmental Disorder with Corpus Collosum, Axon, Cardiac, Ocular, and Genital Defects. <i>American Journal of Human Genetics</i> , 2019 , 105, 854-868	11	17
56	Cytokine Secreting Microparticles Engineer the Fate and the Effector Functions of T-Cells. <i>Advanced Materials</i> , 2018 , 30, 1703178	24	17
55	Modified High-Molecular-Weight Hyaluronan Promotes Allergen-Specific Immune Tolerance. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2017 , 56, 109-120	5.7	17
54	Augmentation of T-Cell Activation by Oscillatory Forces and Engineered Antigen-Presenting Cells. <i>Nano Letters</i> , 2019 , 19, 6945-6954	11.5	16
53	Fast Stiffness Mapping of Cells Using High-Bandwidth Atomic Force Microscopy. <i>ACS Nano</i> , 2016 , 10, 257-64	16.7	16
52	Mechanosensing through YAP controls T cell activation and metabolism. <i>Journal of Experimental Medicine</i> , 2020 , 217,	16.6	14
51	Massively scaled-up testing for SARS-CoV-2 RNA via next-generation sequencing of pooled and barcoded nasal and saliva samples. <i>Nature Biomedical Engineering</i> , 2021 , 5, 657-665	19	14
50	Case Study: Mechanism for Increased Follicular Helper T Cell Development in Activated PI3K Delta Syndrome. <i>Frontiers in Immunology</i> , 2019 , 10, 753	8.4	12
49	Pentobarbital desensitization in a 3-month-old child. <i>Allergy and Asthma Proceedings</i> , 2004 , 25, 225-7	2.6	11

48	Disseminated Coccidioidomycosis Treated with Interferon- γ and Dupilumab. <i>New England Journal of Medicine</i> , 2020 , 382, 2337-2343	59.2	10
47	Bi-allelic Variants in TONSL Cause SPONASTRIME Dysplasia and a Spectrum of Skeletal Dysplasia Phenotypes. <i>American Journal of Human Genetics</i> , 2019 , 104, 422-438	11	10
46	Differential Contributions of Actin and Myosin to the Physical Phenotypes and Invasion of Pancreatic Cancer Cells. <i>Cellular and Molecular Bioengineering</i> , 2020 , 13, 27-44	3.9	9
45	Multiplexed Functional Assessment of Genetic Variants in CARD11. <i>American Journal of Human Genetics</i> , 2020 , 107, 1029-1043	11	8
44	Compound heterozygous mutation of Rag1 leading to Omenn syndrome. <i>PLoS ONE</i> , 2015 , 10, e0121489	3.7	8
43	Counting cells with a low-cost integrated microfluidics-waveguide sensor. <i>Biomicrofluidics</i> , 2012 , 6, 14115-14118	3.2	8
42	Heterozygous variants in MYBPC1 are associated with an expanded neuromuscular phenotype beyond arthrogryposis. <i>Human Mutation</i> , 2019 , 40, 1115-1126	4.7	7
41	Treatment with rituximab and brentuximab vedotin in a patient of common variable immune deficiency-associated classic Hodgkin lymphoma. <i>Biomarker Research</i> , 2016 , 4, 7	8	7
40	IgG4-related disease: Association with a rare gene variant expressed in cytotoxic T cells. <i>Molecular Genetics & Genomic Medicine</i> , 2019 , 7, e686	2.3	6
39	Taking T cell priming down a Notch: signaling through Notch receptors enhances T cell sensitivity to antigen. <i>Immunity</i> , 2015 , 42, 6-8	32.3	6
38	Early infantile epileptic encephalopathy due to biallelic pathogenic variants in PIGQ: Report of seven new subjects and review of the literature. <i>Journal of Inherited Metabolic Disease</i> , 2020 , 43, 1321-1332	5.1	6
37	Clinical sites of the Undiagnosed Diseases Network: unique contributions to genomic medicine and science. <i>Genetics in Medicine</i> , 2021 , 23, 259-271	8.1	6
36	When Screening for Severe Combined Immunodeficiency (SCID) with T Cell Receptor Excision Circles Is Not SCID: a Case-Based Review. <i>Journal of Clinical Immunology</i> , 2021 , 41, 294-302	5.7	6
35	Spatiotemporally and mechanically controlled triggering of mast cells using atomic force microscopy. <i>Immunologic Research</i> , 2014 , 58, 211-7	4.3	5
34	Measurement of elastic properties in fluid using high bandwidth atomic force microscope probes. <i>Applied Physics Letters</i> , 2013 , 102, 103111	3.4	5
33	Infections in Infants with SCID: Isolation, Infection Screening, and Prophylaxis in PIDTC Centers. <i>Journal of Clinical Immunology</i> , 2021 , 41, 38-50	5.7	5
32	Treatment of systemic mastocytosis in an infant with midostaurin. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019 , 7, 2929-2931.e1	5.4	4
31	A toolkit for genetics providers in follow-up of patients with non-diagnostic exome sequencing. <i>Journal of Genetic Counseling</i> , 2019 , 28, 213-228	2.5	4

30	Magnetic Resonance Imaging characteristics in case of TOR1AIP1 muscular dystrophy. <i>Clinical Imaging</i> , 2019 , 58, 108-113	2.7	4
29	Customized atomic force microscopy probe by focused-ion-beam-assisted tip transfer. <i>Applied Physics Letters</i> , 2014 , 105, 053101	3.4	4
28	Optical planar waveguide for cell counting. <i>Applied Physics Letters</i> , 2012 , 100, 43701-437015	3.4	4
27	Single molecule labeling of an atomic force microscope cantilever tip. <i>Applied Physics Letters</i> , 2012 , 101, 163705	3.4	4
26	Immunomodulatory Microneedle Patch for Periodontal Tissue Regeneration.. <i>Matter</i> , 2022 , 5, 666-682	12.7	4
25	Systems approach to uncover signaling networks in primary immunodeficiency diseases. <i>Journal of Allergy and Clinical Immunology</i> , 2017 , 140, 881-884.e8	11.5	3
24	MPEG1/Perforin-2 Haploinsufficiency Associated Polymicrobial Skin Infections and Considerations for Interferon- γ therapy. <i>Frontiers in Immunology</i> , 2020 , 11, 601584	8.4	3
23	Host-Pathogen Interactions in Coccidioidomycosis: Prognostic Clues and Opportunities for Novel Therapies. <i>Clinical Therapeutics</i> , 2019 , 41, 1939-1954.e1	3.5	3
22	High-Bandwidth AFM Probes for Imaging in Air and Fluid. <i>Journal of Microelectromechanical Systems</i> , 2013 , 22, 603-612	2.5	3
21	The New "Wholly Trinity" in the Diagnosis and Management of Inborn Errors of Immunity. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021 , 9, 613-625	5.4	3
20	Intact B-Cell Signaling and Function With Host B-Cells 47 Years After Transplantation for X-SCID. <i>Frontiers in Immunology</i> , 2020 , 11, 415	8.4	2
19	Progressive B Cell Loss in Revertant X-SCID. <i>Journal of Clinical Immunology</i> , 2020 , 40, 1001-1009	5.7	2
18	Pre-existing conditions in Hispanics/Latinxs that are COVID-19 risk factors. <i>IScience</i> , 2021 , 24, 102188	6.1	2
17	CADINS in an Adult with Chronic Sinusitis and Atopic Disease. <i>Journal of Clinical Immunology</i> , 2021 , 41, 256-258	5.7	2
16	Commonalities across computational workflows for uncovering explanatory variants in undiagnosed cases. <i>Genetics in Medicine</i> , 2021 , 23, 1075-1085	8.1	2
15	Leveraging genomic diversity for discovery in an EHR-linked biobank: the UCLA ATLAS Community Health Initiative		2
14	Biochemical Stimulation of Immune Cells and Measurement of Mechanical Responses Using Atomic Force Microscopy. <i>Current Protocols in Chemical Biology</i> , 2019 , 11, e63	1.8	1
13	DYRK1A pathogenic variants in two patients with syndromic intellectual disability and a review of the literature. <i>Molecular Genetics & Genomic Medicine</i> , 2020 , 8, e1544	2.3	1

12	The actin-capping protein alpha-adducin is required for T-cell costimulation		1
11	Augmenting T-cell responses to tumors by nanomanufacturing. <i>Materials Horizons</i> , 2020 , 7, 3028-3033	14.4	1
10	Commercial immunoglobulin products contain cross-reactive but not neutralizing antibodies against SARS-CoV-2. <i>Journal of Allergy and Clinical Immunology</i> , 2021 , 147, 876-877	11.5	1
9	Variants in PRKAR1B cause a neurodevelopmental disorder with autism spectrum disorder, apraxia, and insensitivity to pain. <i>Genetics in Medicine</i> , 2021 , 23, 1465-1473	8.1	1
8	Detection of a mosaic CDKL5 deletion and inversion by optical genome mapping ends an exhaustive diagnostic odyssey. <i>Molecular Genetics & Genomic Medicine</i> , 2021 , 9, e1665	2.3	1
7	Biallelic PI4KA variants cause neurological, intestinal and immunological disease. <i>Brain</i> , 2021 ,	11.2	1
6	The Actin-Capping Protein Alpha-Adducin Is Required for T-Cell Costimulation. <i>Frontiers in Immunology</i> , 2019 , 10, 2706	8.4	0
5	Expanding the potential genes of inborn errors of immunity through protein interactions. <i>BMC Genomics</i> , 2021 , 22, 618	4.5	0
4	Biologics and therapeutics 2020 , 1099-1111		
3	Chronic Rhinosinusitis in Pediatric Immunodeficiency. <i>Current Treatment Options in Allergy</i> , 2020 , 7, 219-232		
2	Intravenous Immunoglobulin 2007 , 870-873		
1	T cell activation requires force generation. <i>Journal of Experimental Medicine</i> , 2016 , 213, 2137OIA56	16.6	