

# Sang-Jun Ha

## List of Publications by Year in descending order

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114  
papers

8,286  
citations

76294

40  
h-index

49868

87  
g-index

118  
all docs

118  
docs citations

118  
times ranked

14355  
citing authors

#	ARTICLE	IF	CITATIONS
1	Molecular Signature of CD8+ T Cell Exhaustion during Chronic Viral Infection. <i>Immunity</i> , 2007, 27, 670-684.	6.6	1,695
2	Cooperation of Tim-3 and PD-1 in CD8 T-cell exhaustion during chronic viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 14733-14738.	3.3	697
3	Chronic Virus Infection Enforces Demethylation of the Locus that Encodes PD-1 in Antigen-Specific CD8+ T Cells. <i>Immunity</i> , 2011, 35, 400-412.	6.6	357
4	Stimulation History Dictates Memory CD8 T Cell Phenotype: Implications for Prime-Boost Vaccination. <i>Journal of Immunology</i> , 2006, 177, 831-839.	0.4	266
5	Highly efficient gene knockout in mice and zebrafish with RNA-guided endonucleases. <i>Genome Research</i> , 2014, 24, 125-131.	2.4	249
6	PD-L1 blockade synergizes with IL-2 therapy in reinvigorating exhausted T cells. <i>Journal of Clinical Investigation</i> , 2013, 123, 2604-2615.	3.9	245
7	Enhancing therapeutic vaccination by blocking PD-1-mediated inhibitory signals during chronic infection. <i>Journal of Experimental Medicine</i> , 2008, 205, 543-555.	4.2	201
8	PD-L1 expression on immune cells, but not on tumor cells, is a favorable prognostic factor for head and neck cancer patients. <i>Scientific Reports</i> , 2016, 6, 36956.	1.6	196
9	IL-10 and PD-L1 operate through distinct pathways to suppress T-cell activity during persistent viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20428-20433.	3.3	186
10	Activation of IL-6R/JAK1/STAT3 Signaling Induces <i>De Novo</i> Resistance to Irreversible EGFR Inhibitors in Non-Small Cell Lung Cancer with T790M Resistance Mutation. <i>Molecular Cancer Therapeutics</i> , 2012, 11, 2254-2264.	1.9	179
11	Visualizing Antigen-Specific and Infected Cells in Situ Predicts Outcomes in Early Viral Infection. <i>Science</i> , 2009, 323, 1726-1729.	6.0	176
12	PD-1 Upregulated on Regulatory T Cells during Chronic Virus Infection Enhances the Suppression of CD8+ T Cell Immune Response via the Interaction with PD-L1 Expressed on CD8+ T Cells. <i>Journal of Immunology</i> , 2015, 194, 5801-5811.	0.4	170
13	Antigen-specific CD4 T-cell help rescues exhausted CD8 T cells during chronic viral infection. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 21182-21187.	3.3	155
14	Fibroblast Growth Factor Receptor 1 Gene Amplification Is Associated With Poor Survival and Cigarette Smoking Dosage in Patients With Resected Squamous Cell Lung Cancer. <i>Journal of Clinical Oncology</i> , 2013, 31, 731-737.	0.8	154
15	Recruitment of monocytes/macrophages in different tumor microenvironments. <i>Biochimica Et Biophysica Acta: Reviews on Cancer</i> , 2013, 1835, 170-179.	3.3	136
16	Distinct clinical features and outcomes in never-smokers with nonsmall cell lung cancer who harbor EGFR or KRAS mutations or ALK rearrangement. <i>Cancer</i> , 2012, 118, 729-739.	2.0	132
17	PD-L1 has distinct functions in hematopoietic and nonhematopoietic cells in regulating T cell responses during chronic infection in mice. <i>Journal of Clinical Investigation</i> , 2010, 120, 2508-2515.	3.9	129
18	Impact of Epitope Escape on PD-1 Expression and CD8 T-Cell Exhaustion during Chronic Infection. <i>Journal of Virology</i> , 2009, 83, 4386-4394.	1.5	125

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19	Genome-wide identification of differentially methylated promoters and enhancers associated with response to anti-PD-1 therapy in non-small cell lung cancer. <i>Experimental and Molecular Medicine</i> , 2020, 52, 1550-1563.	3.2	99
20	Single-cell transcriptome analysis reveals TOX as a promoting factor for T cell exhaustion and a predictor for anti-PD-1 responses in human cancer. <i>Genome Medicine</i> , 2020, 12, 22.	3.6	98
21	Interleukin-21 Is a Critical Cytokine for the Generation of Virus-Specific Long-Lived Plasma Cells. <i>Journal of Virology</i> , 2013, 87, 7737-7746.	1.5	90
22	The Ratio of Peripheral Regulatory T Cells to Lox-1 Polymorphonuclear Myeloid-derived Suppressor Cells Predicts the Early Response to Anti-PD-1 Therapy in Patients with Non-Small Cell Lung Cancer. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2019, 199, 243-246.	2.5	85
23	4-1BB Signaling Synergizes with Programmed Death Ligand 1 Blockade To Augment CD8 T Cell Responses during Chronic Viral Infection. <i>Journal of Immunology</i> , 2011, 187, 1634-1642.	0.4	83
24	Manipulating both the inhibitory and stimulatory immune system towards the success of therapeutic vaccination against chronic viral infections. <i>Immunological Reviews</i> , 2008, 223, 317-333.	2.8	82
25	Lung cancer in never smokers: Change of a mindset in the molecular era. <i>Lung Cancer</i> , 2011, 72, 9-15.	0.9	78
26	Clinical Insights Into Novel Immune Checkpoint Inhibitors. <i>Frontiers in Pharmacology</i> , 2021, 12, 681320.	1.6	76
27	Tumor-infiltrating regulatory T cells delineated by upregulation of PD-1 and inhibitory receptors. <i>Cellular Immunology</i> , 2012, 278, 76-83.	1.4	75
28	Regulation of chitinase-3-like-1 in T cell elicits Th1 and cytotoxic responses to inhibit lung metastasis. <i>Nature Communications</i> , 2018, 9, 503.	5.8	72
29	IL-23 Induces Stronger Sustained CTL and Th1 Immune Responses Than IL-12 in Hepatitis C Virus Envelope Protein 2 DNA Immunization. <i>Journal of Immunology</i> , 2004, 172, 525-531.	0.4	71
30	Therapeutic effect of DNA vaccines combined with chemotherapy in a latent infection model after aerosol infection of mice with Mycobacterium tuberculosis. <i>Gene Therapy</i> , 2003, 10, 1592-1599.	2.3	70
31	Hepatitis C Virus Core Protein Inhibits Interleukin 12 and Nitric Oxide Production from Activated Macrophages. <i>Virology</i> , 2001, 279, 271-279.	1.1	65
32	Tumor microenvironment dictates regulatory T cell phenotype: Upregulated immune checkpoints reinforce suppressive function. , 2019, 7, 339.		65
33	High EGFR Gene Copy Number and Skin Rash as Predictive Markers for EGFR Tyrosine Kinase Inhibitors in Patients with Advanced Squamous Cell Lung Carcinoma. <i>Clinical Cancer Research</i> , 2012, 18, 1760-1768.	3.2	60
34	IL-12 Priming during In Vitro Antigenic Stimulation Changes Properties of CD8 T Cells and Increases Generation of Effector and Memory Cells. <i>Journal of Immunology</i> , 2004, 172, 2818-2826.	0.4	59
35	Protective effect of DNA vaccine during chemotherapy on reactivation and reinfection of Mycobacterium tuberculosis. <i>Gene Therapy</i> , 2005, 12, 634-638.	2.3	56
36	Engineering N-glycosylation mutations in IL-12 enhances sustained cytotoxic T lymphocyte responses for DNA immunization. <i>Nature Biotechnology</i> , 2002, 20, 381-386.	9.4	55

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37	Discrimination between Active and Latent Tuberculosis Based on Ratio of Antigen-Specific to Mitogen-Induced IP-10 Production. <i>Journal of Clinical Microbiology</i> , 2015, 53, 504-510.	1.8	55
38	Immune Checkpoint Inhibitors in 10 Years: Contribution of Basic Research and Clinical Application in Cancer Immunotherapy. <i>Immune Network</i> , 2022, 22, e2.	1.6	53
39	Generation of Tolerogenic Dendritic Cells and Their Therapeutic Applications. <i>Immune Network</i> , 2016, 16, 52.	1.6	52
40	<sc>E</sc>gr2 induced during <sc>DC</sc> development acts as an intrinsic negative regulator of <sc>DC</sc> immunogenicity. <i>European Journal of Immunology</i> , 2013, 43, 2484-2496.	1.6	51
41	Mechanism of T cell exhaustion in a chronic environment. <i>BMB Reports</i> , 2011, 44, 217-231.	1.1	50
42	AMIGO2, a novel membrane anchor of PDK1, controls cell survival and angiogenesis via Akt activation. <i>Journal of Cell Biology</i> , 2015, 211, 619-637.	2.3	49
43	Peripheral natural killer cells and myeloid-derived suppressor cells correlate with anti-PD-1 responses in non-small cell lung cancer. <i>Scientific Reports</i> , 2020, 10, 9050.	1.6	43
44	Negative Regulation of Type I IFN Expression by OASL1 Permits Chronic Viral Infection and CD8+ T-Cell Exhaustion. <i>PLoS Pathogens</i> , 2013, 9, e1003478.	2.1	41
45	A Novel Function of Phosphorothioate Oligodeoxynucleotides as Chemoattractants for Primary Macrophages. <i>Journal of Immunology</i> , 2001, 167, 2847-2854.	0.4	40
46	A neuron-specific gene transfer by a recombinant defective Sindbis virus. <i>Molecular Brain Research</i> , 1998, 63, 53-61.	2.5	39
47	miR-150-Mediated Foxo1 Regulation Programs CD8 + T Cell Differentiation. <i>Cell Reports</i> , 2017, 20, 2598-2611.	2.9	38
48	Direct endothelial junction restoration results in significant tumor vascular normalization and metastasis inhibition in mice. <i>Oncotarget</i> , 2014, 5, 2761-2777.	0.8	38
49	Enhanced Immunogenicity and Protective Efficacy with the Use of Interleukin-12-Encapsulated Microspheres plus AS01B in Tuberculosis Subunit Vaccination. <i>Infection and Immunity</i> , 2006, 74, 4954-4959.	1.0	37
50	IL-4 Induced Innate CD8+ T Cells Control Persistent Viral Infection. <i>PLoS Pathogens</i> , 2015, 11, e1005193.	2.1	36
51	Re-defining T-Cell Exhaustion: Subset, Function, and Regulation. <i>Immune Network</i> , 2020, 20, e2.	1.6	33
52	Long-term protective efficacy with a BCG-prime ID93/GLA-SE boost regimen against the hyper-virulent <i>Mycobacterium tuberculosis</i> strain K in a mouse model. <i>Scientific Reports</i> , 2019, 9, 15560.	1.6	32
53	Dysregulation of TFH-B-TRM lymphocyte cooperation is associated with unfavorable anti-PD-1 responses in EGFR-mutant lung cancer. <i>Nature Communications</i> , 2021, 12, 6068.	5.8	31
54	Peptidylarginine deiminase inhibition impairs Toll-like receptor agonist-induced functional maturation of dendritic cells, resulting in the loss of T cell-proliferative capacity: a partial mechanism with therapeutic potential in inflammatory settings. <i>Journal of Leukocyte Biology</i> , 2015, 97, 351-362.	1.5	30

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55	CD160 serves as a negative regulator of NKT cells in acute hepatic injury. <i>Nature Communications</i> , 2019, 10, 3258.	5.8	29
56	Tumor-Infiltrating Regulatory T-cell Accumulation in the Tumor Microenvironment Is Mediated by IL33/ST2 Signaling. <i>Cancer Immunology Research</i> , 2020, 8, 1393-1406.	1.6	28
57	Rapid recruitment of macrophages in interleukin-12-mediated tumour regression. <i>Immunology</i> , 1998, 95, 156-163.	2.0	27
58	Sustained Type I Interferon Reinforces NK Cell-Mediated Cancer Immunosurveillance during Chronic Virus Infection. <i>Cancer Immunology Research</i> , 2019, 7, 584-599.	1.6	27
59	Combination of PD-L1 and PVR determines sensitivity to PD-1 blockade. <i>JCI Insight</i> , 2020, 5, .	2.3	27
60	Monocyte-Derived Dendritic Cells Dictate the Memory Differentiation of CD8+ T Cells During Acute Infection. <i>Frontiers in Immunology</i> , 2019, 10, 1887.	2.2	26
61	Cisplatin induces tolerogenic dendritic cells in response to TLR agonists via the abundant production of IL-10, thereby promoting Th2- and Tr1-biased T-cell immunity. <i>Oncotarget</i> , 2016, 7, 33765-33782.	0.8	26
62	Diagnostic Performance of a Cytokine and IFN- $\gamma$ -Induced Chemokine mRNA Assay after Mycobacterium tuberculosis-Specific Antigen Stimulation in Whole Blood from Infected Individuals. <i>Journal of Molecular Diagnostics</i> , 2015, 17, 90-99.	1.2	24
63	Enhancement of Interleukin-12 Gene-Based Tumor Immunotherapy by the Reduced Secretion of p40 Subunit and the Combination with Farnesyltransferase Inhibitor. <i>Human Gene Therapy</i> , 2005, 16, 328-338.	1.4	22
64	Inhibition of IL-17A Suppresses Enhanced-Tumor Growth in Low Dose Pre-Irradiated Tumor Beds. <i>PLoS ONE</i> , 2014, 9, e106423.	1.1	20
65	Differentiation of Antigen-Specific T Cells with Limited Functional Capacity during Mycobacterium tuberculosis Infection. <i>Infection and Immunity</i> , 2014, 82, 132-139.	1.0	20
66	Identification of a subnuclear body involved in sequence-specific cytokine RNA processing. <i>Nature Communications</i> , 2015, 6, 5791.	5.8	20
67	The Impact of Cigarette Smoking on the Frequency of and Qualitative Differences in KRAS Mutations in Korean Patients with Lung Adenocarcinoma. <i>Yonsei Medical Journal</i> , 2013, 54, 865.	0.9	18
68	Biosynthesis of Nonimmunosuppressive FK506 Analogues with Antifungal Activity. <i>Journal of Natural Products</i> , 2019, 82, 2078-2086.	1.5	18
69	A phase I trial of gefitinib and nimotuzumab in patients with advanced non-small cell lung cancer (NSCLC). <i>Lung Cancer</i> , 2013, 79, 270-275.	0.9	17
70	Identification of MYC as an antineoplastic protein that stifles RIPK1-RIPK3 complex formation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 19982-19993.	3.3	17
71	Niche-specific MHC II and PD-L1 regulate CD4+CD8 $\alpha$ <sup>+</sup> intraepithelial lymphocyte differentiation. <i>Journal of Experimental Medicine</i> , 2021, 218, .	4.2	17
72	Concordance of programmed death-ligand 1 expression between primary and metastatic non-small cell lung cancer by immunohistochemistry and RNA <i>in situ</i> hybridization. <i>Oncotarget</i> , 2017, 8, 87234-87243.	0.8	17

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73	Cell Type Preference of a Novel Human Derived Cell-Permeable Peptide dNP2 and TAT in Murine Splenic Immune Cells. <i>PLoS ONE</i> , 2016, 11, e0155689.	1.1	16
74	Therapeutic efficacy of cancer vaccine adjuvanted with nanoemulsion loaded with TLR7/8 agonist in lung cancer model. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2021, 37, 102415.	1.7	16
75	Distinct exhaustion features of T lymphocytes shape the tumor-immune microenvironment with therapeutic implication in patients with non-small-cell lung cancer. , 2021, 9, e002780.		15
76	Combination of TLR1/2 and TLR3 ligands enhances CD4+ T cell longevity and antibody responses by modulating type I IFN production. <i>Scientific Reports</i> , 2016, 6, 32526.	1.6	14
77	Decreased ex vivo production of interferon-gamma is associated with severity and poor prognosis in patients with lupus. <i>Arthritis Research and Therapy</i> , 2017, 19, 193.	1.6	14
78	Effect of IL-4 on the Development and Function of Memory-like CD8 T Cells in the Peripheral Lymphoid Tissues. <i>Immune Network</i> , 2016, 16, 126.	1.6	13
79	Overexpression of PVR and PD-L1 and its association with prognosis in surgically resected squamous cell lung carcinoma. <i>Scientific Reports</i> , 2021, 11, 8551.	1.6	13
80	Clinical Perspectives to Overcome Acquired Resistance to Anti-Programmed Death-1 and Anti-Programmed Death Ligand-1 Therapy in Non-Small Cell Lung Cancer. <i>Molecules and Cells</i> , 2021, 44, 363-373.	1.0	13
81	Engineered Attenuated <i>Salmonella typhimurium</i> Expressing Neoantigen Has Anticancer Effects. <i>ACS Synthetic Biology</i> , 2021, 10, 2478-2487.	1.9	13
82	Differential Role of PD-1 Expressed by Various Immune and Tumor Cells in the Tumor Immune Microenvironment: Expression, Function, Therapeutic Efficacy, and Resistance to Cancer Immunotherapy. <i>Frontiers in Cell and Developmental Biology</i> , 2021, 9, 767466.	1.8	13
83	CU06-1004-Induced Vascular Normalization Improves Immunotherapy by Modulating Tumor Microenvironment via Cytotoxic T Cells. <i>Frontiers in Immunology</i> , 2020, 11, 620166.	2.2	12
84	Systems biology analysis identifies TNFRSF9 as a functional marker of tumor-infiltrating regulatory T-cell enabling clinical outcome prediction in lung cancer. <i>Computational and Structural Biotechnology Journal</i> , 2021, 19, 860-868.	1.9	12
85	Mind Bomb-1 in Dendritic Cells Is Specifically Required for Notch-mediated T Helper Type 2 Differentiation. <i>PLoS ONE</i> , 2012, 7, e36359.	1.1	12
86	Enhancement of VP1-specific immune responses and protection against EMCV-K challenge by co-delivery of IL-12 DNA with VP1 DNA vaccine. <i>Vaccine</i> , 2001, 19, 1891-1898.	1.7	11
87	A small molecule inhibitor for ATPase activity of Hsp70 and Hsc70 enhances the immune response to protein antigens. <i>Scientific Reports</i> , 2015, 5, 17642.	1.6	11
88	Viral coinfection promotes tuberculosis immunopathogenesis by type I IFN signaling-dependent impediment of Th1 cell pulmonary influx. <i>Nature Communications</i> , 2022, 13, .	5.8	11
89	Structural Study of Monomethyl Fumarate-Bound Human GAPDH. <i>Molecules and Cells</i> , 2019, 42, 597-603.	1.0	10
90	MicroRNA-150 modulates intracellular Ca <sup>2+</sup> levels in naïve CD8+ T cells by targeting TMEM20. <i>Scientific Reports</i> , 2017, 7, 2623.	1.6	9

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91	Programmed Death Ligand 1-Expressing Classical Dendritic Cells Mitigate -Induced Gastritis. Cellular and Molecular Gastroenterology and Hepatology, 2021, 12, 715-739.	2.3	9
92	Co-Immunization of Plasmid DNA Encoding IL-12 and IL-18 with Bacillus Calmette-Guérin Vaccine against Progressive Tuberculosis. Yonsei Medical Journal, 2011, 52, 1008.	0.9	8
93	IL-15 Generates IFN- $\gamma$ -producing Cells Reciprocally Expressing Lymphoid-Myeloid Markers during Dendritic Cell Differentiation. International Journal of Biological Sciences, 2019, 15, 464-480.	2.6	8
94	VirtualCytometry: a webserver for evaluating immune cell differentiation using single-cell RNA sequencing data. Bioinformatics, 2020, 36, 546-551.	1.8	8
95	Regulatory T cells are an important target for cancer immunotherapy. Nature Reviews Clinical Oncology, 2014, 11, 307-307.	12.5	7
96	Enriching CCL3 in the Tumor Microenvironment Facilitates T cell Responses and Improves the Efficacy of Anti-PD-1 Therapy. Immune Network, 2021, 21, e23.	1.6	7
97	Perspectives on immune checkpoint ligands: expression, regulation, and clinical implications. BMB Reports, 2021, 54, 403-412.	1.1	7
98	Metabolic Reprogramming by the Excessive AMPK Activation Exacerbates Antigen-Specific Memory CD8 <sup>+</sup> T Cell Differentiation after Acute Lymphocytic Choriomeningitis Virus Infection. Immune Network, 2019, 19, e11.	1.6	7
99	TLR2 contributes to trigger immune response of pleural mesothelial cells against Mycobacterium bovis BCG and M. tuberculosis infection. Cytokine, 2017, 95, 80-87.	1.4	6
100	MicroRNA-150 controls differentiation of intraepithelial lymphocytes through TGF- $\beta$ 2 receptor II regulation. Journal of Allergy and Clinical Immunology, 2018, 141, 1382-1394.e14.	1.5	6
101	Altered Biological Potential and Radioresponse of Murine Tumors in Different Microenvironments. Cancer Research and Treatment, 2016, 48, 727-737.	1.3	5
102	The R229Q mutation of Rag2 does not characterize severe immunodeficiency in mice. Scientific Reports, 2019, 9, 4415.	1.6	4
103	Overexpression of poliovirus receptor is associated with poor prognosis in head and neck squamous cell carcinoma patients. Journal of Cancer Research and Clinical Oncology, 2021, 147, 2741-2750.	1.2	4
104	Enhancing T Cell Immune Responses by B Cell-based Therapeutic Vaccine Against Chronic Virus Infection. Immune Network, 2014, 14, 207.	1.6	3
105	Extrinsic Acquisition of CD80 by Antigen-Specific CD8 <sup>+</sup> T Cells Regulates Their Recall Immune Responses to Acute Viral Infection. Immune Network, 2019, 19, e25.	1.6	3
106	OASL1-Mediated Inhibition of Type I IFN Reduces Influenza A Infection-Induced Airway Inflammation by Regulating ILC2s. Allergy, Asthma and Immunology Research, 2022, 14, 99.	1.1	3
107	Semi-Functional Quantitative Flow Cytometry Assay for Lymphocytic Choriomeningitis Virus Titration. Immune Network, 2017, 17, 307.	1.6	2
108	Disproportional enrichment of FoxP3 <sup>+</sup> CD4 <sup>+</sup> regulatory T cells shapes a suppressive tumour microenvironment in head and neck squamous cell carcinoma. Clinical and Translational Medicine, 2022, 12, e753.	1.7	2

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109	Differentiation of Antigen-Specific T Cells with Limited Functional Capacity during Mycobacterium tuberculosis Infection. <i>Infection and Immunity</i> , 2014, 82, 3514-3514.	1.0	1
110	Phenotypic and Functional Analysis of Activated Regulatory T Cells Isolated from Chronic Lymphocytic Choriomeningitis Virus-infected Mice. <i>Journal of Visualized Experiments</i> , 2016, , .	0.2	1
111	Biosynthesis of Nonimmunosuppressive ProlylFK506 Analogues with Neurite Outgrowth and Synaptogenic Activity. <i>Journal of Natural Products</i> , 2021, 84, 195-203.	1.5	1
112	AMIGO2, a novel membrane anchor of PDK1, controls cell survival and angiogenesis via Akt activation. <i>Journal of Experimental Medicine</i> , 2015, 212, 212120IA105.	4.2	1
113	PD-1: Dual guard for immunopathology. <i>Oncotarget</i> , 2015, 6, 21783-21784.	0.8	1
114	Establishment of a mechanism-based in vitro coculture assay for evaluating the efficacy of immune checkpoint inhibitors. <i>Cancer Immunology, Immunotherapy</i> , 2022, , 1.	2.0	0