Jia-Huai Wang

List of Publications by Year
in descending order

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47	3,749	304743	254184
papers	citations	22 h-index	43 g-index

128	128	128	4555
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Structural basis for allostery in integrins and binding to fibrinogen-mimetic therapeutics. Nature, 2004, 432, 59-67.	27.8	762
2	Structures of the Î±L I Domain and Its Complex with ICAM-1 Reveal a Shape-Shifting Pathway for Integrin Regulation. Cell, 2003, 112, 99-111.	28.9	499
3	The Crystal Structure of a T Cell Receptor in Complex with Peptide and MHC Class II. Science, 1999, 286, 1913-1921.	12.6	376
4	Force-dependent transition in the T-cell receptor Î²-subunit allosterically regulates peptide discrimination and pMHC bond lifetime. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 1517-1522.	7.1	209
5	A dimeric crystal structure for the N-terminal two domains of intercellular adhesion molecule-1. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 4134-4139.	7.1	204
6	Structural specializations of immunoglobulin superfamily members for adhesion to integrins and viruses. Immunological Reviews, 1998, 163, 197-215.	6.0	161
7	Atomic structure of an alpha beta T cell receptor (TCR) heterodimer in complex with an anti-TCR Fab fragment derived from a mitogenic antibody. EMBO Journal, 1998, 17, 10-26.	7.8	159
8	Structural basis of Dscam isoform specificity. Nature, 2007, 449, 487-491.	27.8	146
9	Neuropilin-1 functions as a VEGFR2 co-receptor to guide developmental angiogenesis independent of ligand binding. ELife, 2014, 3, e03720.	6.0	117
10	Identification of a common docking topology with substantial variation among different TCRâ€“peptideâ€“MHC complexes. Current Biology, 1998, 8, 409-414.	3.9	105
11	The Crystal Structure of Netrin-1 in Complex with DCC Reveals the Bifunctionality of Netrin-1 As a Guidance Cue. Neuron, 2014, 83, 839-849.	8.1	103
12	The structural basis of Î±Î² Tâ€lineage immune recognition: <scp>TCR</scp> docking topologies, mechanotransduction, and coâ€receptor function. Immunological Reviews, 2012, 250, 102-119.	6.0	92
13	Terazosin activates Pgk1 and Hsp90 to promote stress resistance. Nature Chemical Biology, 2015, 11, 19-25.	8.0	84
14	Protein recognition by cell surface receptors: physiological receptors versus virus interactions. Trends in Biochemical Sciences, 2002, 27, 122-126.	7.5	69
15	Pre-TCR ligand binding impacts thymocyte development before Î±Î²TCR expression. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 8373-8378.	7.1	62
16	Signaling mechanism of the netrin-1 receptor DCC in axon guidance. Progress in Biophysics and Molecular Biology, 2015, 118, 153-160.	2.9	60
17	Structural Features of the Î±Î²TCR Mechanotransduction Apparatus That Promote pMHC Discrimination. Frontiers in Immunology, 2015, 6, 441.	4.8	55
18	Differential thymic selection outcomes stimulated by focal structural alteration in peptide/major histocompatibility complex ligands. Proceedings of the National Academy of Sciences of the United States of America, 1998, 95, 10061-10066.	7.1	53

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19	Distinct recognition of complement iC3b by integrins Î±_XÎ²₂and Î±_MÎ²₂. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 3403-3408.	7.1	47
20	Structural Basis for Draxin-Modulated Axon Guidance and Fasciculation by Netrin-1 through DCC. Neuron, 2018, 97, 1261-1267.e4.	8.1	39
21	Pull and push: Talin activation for integrin signaling. Cell Research, 2012, 22, 1512-1514.	12.0	34
22	N-terminal horseshoe conformation of DCC is functionally required for axon guidance and might be shared by other neural receptors. Journal of Cell Science, 2013, 126, 186-195.	2.0	27
23	The sequence signature of an Ig-fold. Protein and Cell, 2013, 4, 569-572.	11.0	27
24	Preâ€“T cell receptors topologically sample self-ligands during thymocyte Î²-selection. Science, 2021, 371, 181-185.	12.6	25
25	Crystal structures of influenza nucleoprotein complexed with nucleic acid provide insights into the mechanism of RNA interaction. Nucleic Acids Research, 2021, 49, 4144-4154.	14.5	24
26	Crystal structure of HLA-B*5801 with a TW10 HIV Gag epitope reveals a novel mode of peptide presentation. Cellular and Molecular Immunology, 2017, 14, 631-634.	10.5	22
27	Topological analysis of the gp41 MPER on lipid bilayers relevant to the metastable HIV-1 envelope prefusion state. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 22556-22566.	7.1	22
28	Netrin Synergizes Signaling and Adhesion through DCC. Trends in Biochemical Sciences, 2020, 45, 6-12.	7.5	21
29	Mutational analysis of MAdCAM-1/Î±4Î²7 interactions reveals significant binding determinants in both the first and second immunoglobulin domains. Cell Adhesion and Communication, 1999, 7, 167-181.	1.7	20
30	NMR: an essential structural tool for integrative studies of T cell development, pMHC ligand recognition and TCR mechanobiology. Journal of Biomolecular NMR, 2019, 73, 319-332.	2.8	18
31	A Conserved Hydrophobic Patch on VÎ² Domains Revealed by TCRÎ² Chain Crystal Structures: Implications for Pre-TCR Dimerization. Frontiers in Immunology, 2011, 2, 5.	4.8	17
32	Structural basis of Dscam1 homodimerization: Insights into context constraint for protein recognition. Science Advances, 2016, 2, e1501118.	10.3	15
33	Codification of bidentate pMHC interaction with TCR and its co-receptor. Trends in Immunology, 2015, 36, 300-306.	6.8	14
34	T cell receptors, mechanosensors, catch bonds and immunotherapy. Progress in Biophysics and Molecular Biology, 2020, 153, 23-27.	2.9	13
35	The binding of DCC-P3 motif and FAK-FAT domain mediates the initial step of netrin-1/DCC signaling for axon attraction. Cell Discovery, 2018, 4, 8.	6.7	10
36	Revisiting the putative TCR CÎ± dimerization model through structural analysis. Frontiers in Immunology, 2013, 4, 16.	4.8	7

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37	Crystal structure of HLA-B*5801, a protective HLA allele for HIV-1 infection. Protein and Cell, 2016, 7, 761-765.	11.0	7
38	Assembling atomic resolution views of the immunological synapse. Current Opinion in Immunology, 2003, 15, 286-293.	5.5	5
39	The insulin connection: Dorothy Hodgkin and the Beijing Insulin Group. Trends in Biochemical Sciences, 1998, 23, 497-500.	7.5	4
40	Immunodominant-Peptide Recognition: Beta Testing TCRÎ±Î². Immunity, 2008, 28, 139-141.	14.3	4
41	A New Angle on TCR Activation. Immunity, 2011, 35, 658-660.	14.3	4
42	A general chemical crosslinking strategy for structural analyses of weakly interacting proteins applied to preTCRâ€“pMHC complexes. Journal of Biological Chemistry, 2021, 296, 100255.	3.4	4
43	Structure of unliganded membrane-proximal domains FN4-FN5-FN6 of DCC. Protein and Cell, 2017, 8, 701-705.	11.0	2
44	The CHINA CONNECTION: Michael Rossmann and his first encounter with me. Protein and Cell, 2010, 1, 6-8.	11.0	0
45	The immunology connectionâ€”my first T cell receptor structure projects. Protein and Cell, 2014, 5, 649-652.	11.0	0
46	Transmembrane signaling: A multiplex problem with converging solutions. Progress in Biophysics and Molecular Biology, 2015, 118, 87-88.	2.9	0
47	The early days of structural biology at the Beijing Institute of Biophysics: In memory of Professor Zhengjiong Lin (1935â€“2022). Protein and Cell, 2022, , 1.	11.0	0