Cheng Zhang

List of Publications by Year
in descending order

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73 papers	4,767 citations	172386 29 h-index	102432 66 g-index
81 all docs	81 docs citations	81 times ranked	6782 citing authors

#	Article	IF	Citations
1	Structure and function of an irreversible agonist-Î²2 adrenoceptor complex. Nature, 2011, 469, 236-240.	13.7	741
2	Structure of the human M2 muscarinic acetylcholine receptor bound to an antagonist. Nature, 2012, 482, 547-551.	13.7	706
3	High-resolution crystal structure of human protease-activated receptor 1. Nature, 2012, 492, 387-392.	13.7	416
4	Versatile and multivalent nanobodies efficiently neutralize SARS-CoV-2. Science, 2020, 370, 1479-1484.	6.0	306
5	Cryo-EM Structure of the Human Cannabinoid Receptor CB2-Gi Signaling Complex. Cell, 2020, 180, 645-654.e13.	13.5	167
6	Structural insights into binding specificity, efficacy and bias of a Î²2AR partial agonist. Nature Chemical Biology, 2018, 14, 1059-1066.	3.9	155
7	Cholesterol increases kinetic, energetic, and mechanical stability of the human Î² ₂ -adrenergic receptor. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, E3463-72.	3.3	142
8	Environment-friendly preparation of porous graphite-phase polymeric carbon nitride using calcium carbonate as templates, and enhanced photoelectrochemical activity. Journal of Materials Chemistry A, 2015, 3, 5126-5131.	5.2	142
9	Structural insights into the human D1 and D2 dopamine receptor signaling complexes. Cell, 2021, 184, 931-942.e18.	13.5	140
10	Cryo-EM structure of oxysterol-bound human Smoothened coupled to a heterotrimeric Gi. Nature, 2019, 571, 279-283.	13.7	131
11	Imaging G proteinâ€“coupled receptors while quantifying their ligand-binding free-energy landscape. Nature Methods, 2015, 12, 845-851.	9.0	106
12	Orthosteric and allosteric action of the C5a receptor antagonists. Nature Structural and Molecular Biology, 2018, 25, 472-481.	3.6	106
13	Structure of formylpeptide receptor 2-Gi complex reveals insights into ligand recognition and signaling. Nature Communications, 2020, 11, 885.	5.8	85
14	Covalent agonists for studying G protein-coupled receptor activation. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 10744-10748.	3.3	82
15	Potent neutralizing nanobodies resist convergent circulating variants of SARS-CoV-2 by targeting diverse and conserved epitopes. Nature Communications, 2021, 12, 4676.	5.8	74
16	G Proteinâ€“Coupled Receptors in Asthma Therapy: Pharmacology and Drug Action. Pharmacological Reviews, 2020, 72, 1-49.	7.1	69
17	Identifying and quantifying two ligand-binding sites while imaging native human membrane receptors by AFM. Nature Communications, 2015, 6, 8857.	5.8	64
18	Trypsin inhibitory loop is an excellent lead structure to design serine protease inhibitors and antimicrobial peptides. FASEB Journal, 2007, 21, 2466-2473.	0.2	62

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19	Meta-analyses of gene methylation and smoking behavior in non-small cell lung cancer patients. Scientific Reports, 2015, 5, 8897.	1.6	59
20	Structures of the Human PGD2 Receptor CRTH2 Reveal Novel Mechanisms for Ligand Recognition. Molecular Cell, 2018, 72, 48-59.e4.	4.5	53
21	Effective Application of Bicelles for Conformational Analysis of G Protein-Coupled Receptors by Hydrogen/Deuterium Exchange Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 808-817.	1.2	50
22	Mechanism of dopamine binding and allosteric modulation of the human D1 dopamine receptor. Cell Research, 2021, 31, 593-596.	5.7	48
23	A potential role for Î²- and Î³-crystallins in the vascular remodeling of the eye. Developmental Dynamics, 2005, 234, 36-47.	0.8	47
24	Structure of human steroid 5Î±-reductase 2 with the anti-androgen drug finasteride. Nature Communications, 2020, 11, 5430.	5.8	47
25	Discovery and optimization of 1-(1 H -indol-1-yl)ethanone derivatives as CBP/EP300 bromodomain inhibitors for the treatment of castration-resistant prostate cancer. European Journal of Medicinal Chemistry, 2018, 147, 238-252.	2.6	46
26	Structure-Based Discovery and Optimization of Benzo[d]isoxazole Derivatives as Potent and Selective BET Inhibitors for Potential Treatment of Castration-Resistant Prostate Cancer (CRPC). Journal of Medicinal Chemistry, 2018, 61, 3037-3058.	2.9	46
27	Molecular recognition of formylpeptides and diverse agonists by the formylpeptide receptors FPR1 and FPR2. Nature Communications, 2022, 13, 1054.	5.8	35
28	Discovery and Characterization of XY101, a Potent, Selective, and Orally Bioavailable RORÎ³ Inverse Agonist for Treatment of Castration-Resistant Prostate Cancer. Journal of Medicinal Chemistry, 2019, 62, 4716-4730.	2.9	34
29	Distinguishing Lung Adenocarcinoma from Lung Squamous Cell Carcinoma by Two Hypomethylated and Three Hypermethylated Genes: A Meta-Analysis. PLoS ONE, 2016, 11, e0149088.	1.1	34
30	Y08197 is a novel and selective CBP/EP300 bromodomain inhibitor for the treatment of prostate cancer. Acta Pharmacologica Sinica, 2019, 40, 1436-1447.	2.8	30
31	Single-molecule force spectroscopy of G-protein-coupled receptors. Chemical Society Reviews, 2013, 42, 7801.	18.7	27
32	Structural basis of human ghrelin receptor signaling by ghrelin and the synthetic agonist ibutamoren. Nature Communications, 2021, 12, 6410.	5.8	27
33	Cryo-EM structure of the AVPâ€“vasopressin receptor 2â€“Gs signaling complex. Cell Research, 2021, 31, 932-934.	5.7	25
34	JQ1, a BETâ€bromodomain inhibitor, inhibits human cancer growth and suppresses PDâ€Ł1 expression. Cell Biology International, 2019, 43, 642-650.	1.4	24
35	The regulative effect and repercussion of probiotics and prebiotics on osteoporosis: involvement of brain-gut-bone axis. Critical Reviews in Food Science and Nutrition, 2023, 63, 7510-7528.	5.4	23
36	Design, Synthesis, and Biological Evaluation of 1-(Indolizin-3-yl)ethan-1-ones as CBP Bromodomain Inhibitors for the Treatment of Prostate Cancer. Journal of Medicinal Chemistry, 2022, 65, 785-810.	2.9	23

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37	Benzoxazinone-containing 3,5-dimethylisoxazole derivatives as BET bromodomain inhibitors for treatment of castration-resistant prostate cancer. European Journal of Medicinal Chemistry, 2018, 152, 542-559.	2.6	21
38	MicroRNAs-mediated cell fate in triple negative breast cancers. Cancer Letters, 2015, 361, 8-12.	3.2	20
39	Crystal Structures of Human IPP Isomerase: New Insights into the Catalytic Mechanism. Journal of Molecular Biology, 2007, 366, 1437-1446.	2.0	19
40	Consumption of beer and colorectal cancer incidence: a meta-analysis of observational studies. Cancer Causes and Control, 2015, 26, 549-560.	0.8	19
41	Development of â€œPlug and Playâ€•Fiducial Marks for Structural Studies of GPCR Signaling Complexes by Single-Particle Cryo-EM. Structure, 2019, 27, 1862-1874.e7.	1.6	19
42	Crystal structure of the C-terminal domain of the É› subunit of human translation initiation factor eIF2B. Protein and Cell, 2010, 1, 595-603.	4.8	18
43	Higher BMP Expression in Tendon Stem/Progenitor Cells Contributes to the Increased Heterotopic Ossification in Achilles Tendon With Aging. Frontiers in Cell and Developmental Biology, 2020, 8, 570605.	1.8	18
44	Genetic Associations with Hypertension: Meta-Analyses of Six Candidate Genetic Variants. Genetic Testing and Molecular Biomarkers, 2013, 17, 736-742.	0.3	15
45	Increased expression of CX43 on stromal cells promotes leukemia apoptosis. Oncotarget, 2015, 6, 44323-44331.	0.8	15
46	Targeting blood thrombogenicity precipitates atherothrombotic events in a mouse model of plaque destabilization. Scientific Reports, 2015, 5, 10225.	1.6	14
47	Y08060: A Selective BET Inhibitor for Treatment of Prostate Cancer. ACS Medicinal Chemistry Letters, 2018, 9, 262-267.	1.3	14
48	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. Structure, 2018, 26, 829-838.e4.	1.6	13
49	GSK3Î² attenuates TGF-Î²1 induced epithelialâ€“mesenchymal transition and metabolic alterations in ARPE-19 cells. Biochemical and Biophysical Research Communications, 2017, 486, 744-751.	1.0	12
50	An inactive receptor-G protein complex maintains the dynamic range of agonist-induced signaling. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 30755-30762.	3.3	12
51	Submolecular probing of the complement C5a receptorâ€“ligand binding reveals a cooperative two-site binding mechanism. Communications Biology, 2020, 3, 786.	2.0	12
52	Discovery and Characterization of Benzimidazole Derivative XY123 as a Potent, Selective, and Orally Available RORÎ³ Inverse Agonist. Journal of Medicinal Chemistry, 2021, 64, 8775-8797.	2.9	12
53	Crystal Structure of Human ASB9-2 and Substrate-Recognition of CKB. Protein Journal, 2012, 31, 275-284.	0.7	11
54	Parallel Post-Translational Modification Scanning Enhancing Hydrogenâ€“Deuterium Exchange-Mass Spectrometry Coverage of Key Structural Regions. Analytical Chemistry, 2019, 91, 6976-6980.	3.2	10

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55	Discovery and optimization of novel N-benzyl-3,6-dimethylbenzo[d]isoxazol-5-amine derivatives as potent and selective TRIM24 bromodomain inhibitors with potential anti-cancer activities. Bioorganic Chemistry, 2020, 94, 103424.	2.0	10
56	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. Structure, 2019, 27, 1517-1526.e3.	1.6	8
57	Chromatin remodeling factors OsYAF9 and OsSWC4 interact to promote internode elongation in rice. Plant Physiology, 2022, 188, 2199-2214.	2.3	8
58	A cholesterol analog stabilizes the human Î² ₂ -adrenergic receptor nonlinearly with temperature. Science Signaling, 2022, 15, .	1.6	8
59	Molecular basis for lipid recognition by the prostaglandin D₂receptor CRTH2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	7
60	Association between LGALS2 3279C>T and coronary artery disease: A case-control study and a meta-analysis. Biomedical Reports, 2014, 2, 879-885.	0.9	6
61	CFam: a chemical families database based on iterative selection of functional seeds and seed-directed compound clustering. Nucleic Acids Research, 2015, 43, D558-D565.	6.5	6
62	Relationship Between First 24-h Mean Body Temperature and Clinical Outcomes of Post-cardiac Surgery Patients. Frontiers in Cardiovascular Medicine, 2021, 8, 746228.	1.1	6
63	Membrane binding of the insertion sequence of Proteus vulgaris L-amino acid deaminase stabilizes protein structure and increases catalytic activity. Scientific Reports, 2017, 7, 13719.	1.6	5
64	Free fatty acids and triglyceride change in the gallbladder bile of gallstone patients with pancreaticobiliary reflux. Lipids in Health and Disease, 2021, 20, 97.	1.2	5
65	A successful cesarean section followed with endovascular stent-graft implantation for a 36-week twin pregnancy with acute aortic dissection: a case report. Irish Journal of Medical Science, 2016, 185, 735-739.	0.8	4
66	Quantitative Analysis of Collagen Produced by Rabbit Keratocytes using Second Harmonic Generation Microscopy. Current Eye Research, 2017, 42, 195-200.	0.7	3
67	Y06014 is a selective BET inhibitor for the treatment of prostate cancer. Acta Pharmacologica Sinica, 2021, 42, 2120-2131.	2.8	3
68	<scp>OsHUB2</scp> inhibits function of <scp>OsTrx1</scp> in heading date in rice. Plant Journal, 2022, 110, 1670-1680.	2.8	3
69	Discovery, optimization and evaluation of 1-(indolin-1-yl)ethan-1-ones as novel selective TRIM24/BRPF1 bromodomain inhibitors. European Journal of Medicinal Chemistry, 2022, 236, 114311.	2.6	3
70	Correlation analysis of RDM1 gene with immune infiltration and clinical prognosis of hepatocellular carcinoma. Bioscience Reports, 2021, 41, .	1.1	1
71	Measuring Smoothened (SMO)-Mediated Activation of the Gi Protein. Methods in Molecular Biology, 2022, 2374, 205-212.	0.4	0
72	Cannabinoid Receptor CB2 Structure and CB2/Gi Signaling Mechanisms. FASEB Journal, 2019, 33, 493.12.	0.2	0

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73	Structure and drug development of the human formylpeptide receptors FPR1 and FPR2. FASEB Journal, 2022, 36, .	0.2	0