

# Bin Xu

## List of Publications by Year in descending order

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28  
papers

1,278  
citations

394421

19  
h-index

477307

29  
g-index

33  
all docs

33  
docs citations

33  
times ranked

1917  
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural product-based nanomedicine: recent advances and issues. <i>International Journal of Nanomedicine</i> , 2015, 10, 6055.	6.7	189
2	Natural product-based amyloid inhibitors. <i>Biochemical Pharmacology</i> , 2017, 139, 40-55.	4.4	155
3	Crystal structure of a $\hat{3}$ T-cell receptor specific for the human MHC class I homolog MICA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 2414-2419.	7.1	133
4	How Insulin Binds: the B-Chain $\hat{1}$ -Helix Contacts the L1 $\hat{2}$ -Helix of the Insulin Receptor. <i>Journal of Molecular Biology</i> , 2004, 341, 529-550.	4.2	74
5	Amylin Amyloid Inhibition by Flavonoid Baicalein: Key Roles of Its Vicinal Dihydroxyl Groups of the Catechol Moiety. <i>Biochemistry</i> , 2016, 55, 4255-4258.	2.5	62
6	Diabetes-Associated Mutations in Insulin: Consecutive Residues in the B Chain Contact Distinct Domains of the Insulin Receptor. <i>Biochemistry</i> , 2004, 43, 8356-8372.	2.5	58
7	An Achilles' Heel in an Amyloidogenic Protein and Its Repair. <i>Journal of Biological Chemistry</i> , 2010, 285, 10806-10821.	3.4	49
8	Diabetes-Associated Mutations in Human Insulin: Crystal Structure and Photo-Cross-Linking Studies of A-Chain Variant Insulin. <i>Biochemistry</i> , 2005, 44, 5000-5016.	2.5	47
9	Olive Component Oleuropein Promotes $\hat{2}$ -Cell Insulin Secretion and Protects $\hat{2}$ -Cells from Amylin Amyloid-Induced Cytotoxicity. <i>Biochemistry</i> , 2017, 56, 5035-5039.	2.5	46
10	Early preclinical detection of prions in the skin of prion-infected animals. <i>Nature Communications</i> , 2019, 10, 247.	12.8	46
11	Chiral mutagenesis of insulin's hidden receptor-binding surface: structure of an Allo-isoleucine A2 analogue. <i>Journal of Molecular Biology</i> , 2002, 316, 435-441.	4.2	43
12	Decoding the Cryptic Active Conformation of a Protein by Synthetic Photoscanning. <i>Journal of Biological Chemistry</i> , 2009, 284, 14597-14608.	3.4	43
13	Enhancing the Activity of a Protein by Stereospecific Unfolding. <i>Journal of Biological Chemistry</i> , 2009, 284, 14586-14596.	3.4	40
14	GPR30 regulates diet-induced adiposity in female mice and adipogenesis in vitro. <i>Scientific Reports</i> , 2016, 6, 34302.	3.3	40
15	Enhancing the Activity of Insulin at the Receptor Interface: Crystal Structure and Photo-Cross-Linking of A8 Analogues. <i>Biochemistry</i> , 2004, 43, 16119-16133.	2.5	37
16	Protein Structure and the Spandrels of San Marco: Insulin's Receptor-Binding Surface Is Buttressed by an Invariant Leucine Essential for Its Stability. <i>Biochemistry</i> , 2002, 41, 809-819.	2.5	35
17	Diabetes-Associated Mutations in Insulin Identify Invariant Receptor Contacts. <i>Diabetes</i> , 2004, 53, 1599-1602.	0.6	29
18	Phytonutrient genistein is a survival factor for pancreatic $\hat{2}$ -cells via GPR30-mediated mechanism. <i>Journal of Nutritional Biochemistry</i> , 2018, 58, 59-70.	4.2	27

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19	Crystal Structure of allo-IleA2-Insulin, an Inactive Chiral Analogue: Implications for the Mechanism of Receptor Binding. <i>Biochemistry</i> , 2003, 42, 12770-12783.	2.5	20
20	Development of Autologous C5 Vaccine Nanoparticles to Reduce Intravascular Hemolysis <i>in Vivo</i> . <i>ACS Chemical Biology</i> , 2017, 12, 539-547.	3.4	17
21	A cavity-forming mutation in insulin induces segmental unfolding of a surrounding $\alpha$ -helix. <i>Protein Science</i> , 2002, 11, 104-116.	7.6	14
22	Insights into the Impact of a Membrane-Anchoring Moiety on the Biological Activities of Bivalent Compounds As Potential Neuroprotectants for Alzheimer's Disease. <i>Journal of Medicinal Chemistry</i> , 2018, 61, 777-790.	6.4	14
23	Rosmarinic Acid Potently Detoxifies Amylin Amyloid and Ameliorates Diabetic Pathology in a Transgenic Rat Model of Type 2 Diabetes. <i>ACS Pharmacology and Translational Science</i> , 2021, 4, 1322-1337.	4.9	14
24	Design of an Insulin Analog with Enhanced Receptor Binding Selectivity. <i>Journal of Biological Chemistry</i> , 2009, 284, 32178-32187.	3.4	13
25	A Rapid Method for Refolding Cell Surface Receptors and Ligands. <i>Scientific Reports</i> , 2016, 6, 26482.	3.3	8
26	Using Thermogenic Beige Cells to Identify Biologically Active Small Molecules and Peptides. <i>Methods in Molecular Biology</i> , 2017, 1566, 203-212.	0.9	8
27	Analysis of receptor-ligand binding by photoaffinity cross-linking. <i>Science China Chemistry</i> , 2014, 57, 232-242.	8.2	4
28	Analysis of Protein Ligand-Receptor Binding by Photoaffinity Cross-Linking. <i>Current Protocols in Protein Science</i> , 2015, 79, 19.26.1-19.26.14.	2.8	2