

Xiao Yu

List of Publications by Year in Descending Order

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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.

110
papers

2,349
citations

28
h-index

42
g-index

120
ext. papers

2,983
ext. citations

9
avg, IF

4.66
L-index

#	Paper	IF	Citations
110	Autonomous sensing of the insulin peptide by an olfactory G protein-coupled receptor modulates glucose metabolism.. <i>Cell Metabolism</i> , 2022 , 34, 240-255.e10	24.6	4
109	Tethered peptide activation mechanism of the adhesion GPCRs ADGRG2 and ADGRG4.. <i>Nature</i> , 2022 ,	50.4	5
108	Progesterone activates GPR126 to promote breast cancer development via the Gi pathway.. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2022 , 119, e2117004119	11.5	0
107	Rifaximin Modulates the Gut Microbiota to Prevent Hepatic Encephalopathy in Liver Cirrhosis Without Impacting the Resistome.. <i>Frontiers in Cellular and Infection Microbiology</i> , 2021 , 11, 761192	5.9	1
106	Activation of PTH1R alleviates epididymitis and orchitis through Gq and Arrestin-1 pathways. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021 , 118,	11.5	1
105	Structure, function and pharmacology of human itch receptor complexes. <i>Nature</i> , 2021 , 600, 164-169	50.4	8
104	Ten-eleven translocation proteins (TETs): tumor suppressors or tumor enhancers?. <i>Frontiers in Bioscience</i> , 2021 , 26, 895-915		1
103	The Role of IL-36 in the Pathophysiological Processes of Autoimmune Diseases. <i>Frontiers in Pharmacology</i> , 2021 , 12, 727956	5.6	3
102	Associations between dietary patterns and physical fitness among Chinese elderly. <i>Public Health Nutrition</i> , 2021 , 24, 4466-4473	3.3	3
101	PTP-MEG2 regulates quantal size and fusion pore opening through two distinct structural bases and substrates. <i>EMBO Reports</i> , 2021 , 22, e52141	6.5	3
100	Ligand recognition, unconventional activation, and G protein coupling of the prostaglandin E receptor EP2 subtype. <i>Science Advances</i> , 2021 , 7,	14.3	5
99	Structural studies of phosphorylation-dependent interactions between the V2R receptor and arrestin-2. <i>Nature Communications</i> , 2021 , 12, 2396	17.4	11
98	Sensitive analysis of doxorubicin and curcumin by micellar electromagnetic chromatography with a double wavelength excitation source. <i>Analytical and Bioanalytical Chemistry</i> , 2021 , 413, 469-478	4.4	
97	Structures of the glucocorticoid-bound adhesion receptor GPR97-G complex. <i>Nature</i> , 2021 , 589, 620-626	50.4	33
96	The role of prostate-specific antigen and multiparametric magnetic resonance imaging in the diagnosis of granulomatous prostatitis induced by intravesical Bacillus Calmette-Guérin vaccine therapy in patients with nonmuscle invasive bladder cancer. <i>Journal of Cancer Research and Therapeutics</i> , 2021 , 17, 625-633	1.2	0
95	Ligand recognition and allosteric regulation of DRD1-Gs signaling complexes. <i>Cell</i> , 2021 , 184, 943-956.e18	36.2	24
94	Capillary Electrophoresis-Indirect Laser-Induced Fluorescence Detection of Neomycin in Fish. <i>Chromatographia</i> , 2021 , 84, 861-868	2.1	1

93	Long Non-coding RNAs in Pathogenesis of Neurodegenerative Diseases. <i>Frontiers in Cell and Developmental Biology</i> , 2021 , 9, 719247	5.7	3
92	Simultaneous determination of flavonoids and anthraquinones in honey by using SPE-CE-LIF. <i>Analytical Biochemistry</i> , 2021 , 631, 114373	3.1	1
91	An ionic lock and a hydrophobic zipper mediate the coupling between an insect pheromone receptor BmOR3 and downstream effectors. <i>Journal of Biological Chemistry</i> , 2021 , 297, 101160	5.4	3
90	Optimization of a peptide ligand for the adhesion GPCR ADGRG2 provides a potent tool to explore receptor biology. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100174	5.4	8
89	The first report of renal oncocytoma in a patient with situs inversus totalis. <i>Asian Journal of Surgery</i> , 2020 , 43, 571-572	1.6	1
88	A simple and highly sensitive masking fluorescence detection system for capillary array electrophoresis and its application to food and medicine analysis. <i>Journal of Chromatography A</i> , 2020 , 1620, 460968	4.5	5
87	Cell active and functionally-relevant small-molecule agonists of calcitonin receptor. <i>Bioorganic Chemistry</i> , 2020 , 96, 103596	5.1	2
86	A Panel of Urinary Long Non-coding RNAs Differentiate Bladder Cancer from Urocystitis. <i>Journal of Cancer</i> , 2020 , 11, 781-787	4.5	17
85	In vitro expansion of pancreatic islet clusters facilitated by hormones and chemicals. <i>Cell Discovery</i> , 2020 , 6, 20	22.3	2
84	Function and therapeutic potential of G protein-coupled receptors in epididymis. <i>British Journal of Pharmacology</i> , 2020 , 177, 5489-5508	8.6	7
83	DeSiphering receptor core-induced and ligand-dependent conformational changes in arrestin via genetic encoded trimethylsilyl H-NMR probe. <i>Nature Communications</i> , 2020 , 11, 4857	17.4	14
82	Structural basis of GPBAR activation and bile acid recognition. <i>Nature</i> , 2020 , 587, 499-504	50.4	38
81	A New Prognostic Risk Model Based on PPAR Pathway-Related Genes in Kidney Renal Clear Cell Carcinoma. <i>PPAR Research</i> , 2020 , 2020, 6937475	4.3	10
80	Identification of HN252 as a potent inhibitor of protein phosphatase PPM1B. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 13463-13471	5.6	1
79	Elevation of JAML Promotes Diabetic Kidney Disease by Modulating Podocyte Lipid Metabolism. <i>Cell Metabolism</i> , 2020 , 32, 1052-1062.e8	24.6	23
78	NR4A1 counteracts JNK activation incurred by ER stress or ROS in pancreatic βcells for protection. <i>Journal of Cellular and Molecular Medicine</i> , 2020 , 24, 14171-14183	5.6	8
77	Swimming improves platelet dysfunction in mice fed with a high-fat diet. <i>Archives of Physiology and Biochemistry</i> , 2020 , 1-6	2.2	1
76	Structural Mechanism of the Arrestin-3/JNK3 Interaction. <i>Structure</i> , 2019 , 27, 1162-1170.e3	5.2	12

75	Deletion of pancreatic β cell adenosine kinase improves glucose homeostasis in young mice and ameliorates streptozotocin-induced hyperglycaemia. <i>Journal of Cellular and Molecular Medicine</i> , 2019 , 23, 4653-4665	5.6	4
74	Identification and structure-function analyses of an allosteric inhibitor of the tyrosine phosphatase PTPN22. <i>Journal of Biological Chemistry</i> , 2019 , 294, 8653-8663	5.4	7
73	Genetically Encoded Fluorescent Amino Acid for Monitoring Protein Interactions through FRET. <i>Analytical Chemistry</i> , 2019 , 91, 14936-14942	7.8	7
72	Occurrence and Genomic Characterization of Two MCR-1-Producing Escherichia coli Isolates from the Same Mink Farmer. <i>MSphere</i> , 2019 , 4,	5	8
71	Emergence and Comparative Genomics Analysis of Extended-Spectrum- β Lactamase-Producing Escherichia coli Carrying in Fennec Fox Imported from Sudan to China. <i>MSphere</i> , 2019 , 4,	5	7
70	Crystal structure and catalytic activity of the PPM1K N94K mutant. <i>Journal of Neurochemistry</i> , 2019 , 148, 550-560	6	4
69	Detection and characterization of ESBL-producing Escherichia coli expressing mcr-1 from dairy cows in China. <i>Journal of Antimicrobial Chemotherapy</i> , 2019 , 74, 321-325	5.1	20
68	Switching of the substrate specificity of protein tyrosine phosphatase N12 by cyclin-dependent kinase 2 phosphorylation orchestrating 2 oncogenic pathways. <i>FASEB Journal</i> , 2018 , 32, 73-82	0.9	6
67	Combinatorial inhibition of PTPN12-regulated receptors leads to a broadly effective therapeutic strategy in triple-negative breast cancer. <i>Nature Medicine</i> , 2018 , 24, 505-511	50.5	28
66	Antimicrobial and anti-biofilm activity of tannic acid against Staphylococcus aureus. <i>Natural Product Research</i> , 2018 , 32, 2225-2228	2.3	50
65	Allosteric mechanisms underlie GPCR signaling to SH3-domain proteins through arrestin. <i>Nature Chemical Biology</i> , 2018 , 14, 876-886	11.7	36
64	Ablation of somatostatin cells leads to impaired pancreatic islet function and neonatal death in rodents. <i>Cell Death and Disease</i> , 2018 , 9, 682	9.8	16
63	Synthesis of carbon quantum dots-doped dummy molecularly imprinted polymer monolithic column for selective enrichment and analysis of aflatoxin B in peanut. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018 , 149, 258-264	3.5	43
62	Allosteric modulation of the catalytic VYD loop in Slingshot by its N-terminal domain underlies both Slingshot auto-inhibition and activation. <i>Journal of Biological Chemistry</i> , 2018 , 293, 16226-16241	5.4	2
61	Gq activity- and Arrestin-1 scaffolding-mediated ADGRG2/CFTR coupling are required for male fertility. <i>ELife</i> , 2018 , 7,	8.9	44
60	The Efficacy Comparison of Tranexamic Acid for Reducing Blood Loss in Total Knee Arthroplasty at Different Dosage Time. <i>Journal of Arthroplasty</i> , 2017 , 32, 33-36	4.4	19
59	Arrestin-biased AT1R agonism induces acute catecholamine secretion through TRPC3 coupling. <i>Nature Communications</i> , 2017 , 8, 14335	17.4	64
58	Phosphorylation of G Protein-Coupled Receptors: From the Barcode Hypothesis to the Flute Model. <i>Molecular Pharmacology</i> , 2017 , 92, 201-210	4.3	67

57	WIP1 phosphatase is a critical regulator of adipogenesis through dephosphorylating PPAR β serine 112. <i>Cellular and Molecular Life Sciences</i> , 2017 , 74, 2067-2079	10.3	13
56	Nitric oxide donor protects against acetic acid-induced gastric ulcer in rats via S-nitrosylation of TRPV1 on vagus nerve. <i>Scientific Reports</i> , 2017 , 7, 2063	4.9	8
55	Cyclocurcumin, a curcumin derivative, exhibits immune-modulating ability and is a potential compound for the treatment of rheumatoid arthritis as predicted by the MM-PBSA method. <i>International Journal of Molecular Medicine</i> , 2017 , 39, 1164-1172	4.4	17
54	Adaptive Activation of a Stress Response Pathway Improves Learning and Memory Through Gs and β Arrestin-1-Regulated Lactate Metabolism. <i>Biological Psychiatry</i> , 2017 , 81, 654-670	7.9	30
53	Efficacy of a Single Dose and an Additional Dose of Tranexamic Acid in Reduction of Blood Loss in Total Knee Arthroplasty. <i>Journal of Arthroplasty</i> , 2017 , 32, 2108-2112	4.4	27
52	A cullin 4B-RING E3 ligase complex fine-tunes pancreatic β cell paracrine interactions. <i>Journal of Clinical Investigation</i> , 2017 , 127, 2631-2646	15.9	19
51	Partial nephrectomy vs. radical nephrectomy for renal tumors: A meta-analysis of renal function and cardiovascular outcomes. <i>Urologic Oncology: Seminars and Original Investigations</i> , 2016 , 34, 533.e11-533.e19 ²⁸	2.8	13
50	Non-proton ligand-sensing domain of acid-sensing ion channel 3 is required for itch sensation. <i>Journal of Neurochemistry</i> , 2016 , 139, 1093-1101	6	7
49	The antinociception of oxytocin on colonic hypersensitivity in rats was mediated by inhibition of mast cell degranulation via Ca(2+)-NOS pathway. <i>Scientific Reports</i> , 2016 , 6, 31452	4.9	15
48	FGF13 modulates the gating properties of the cardiac sodium channel Na1.5 in an isoform-specific manner. <i>Channels</i> , 2016 , 10, 410-420	3	17
47	The role of G protein-coupled receptors in cochlear planar cell polarity. <i>International Journal of Biochemistry and Cell Biology</i> , 2016 , 77, 220-5	5.6	3
46	Crystal Structure and Substrate Specificity of PTPN12. <i>Cell Reports</i> , 2016 , 15, 1345-58	10.6	23
45	Identification of a benzo imidazole thiazole derivative as the specific irreversible inhibitor of protein tyrosine phosphatase. <i>Bioorganic and Medicinal Chemistry Letters</i> , 2016 , 26, 4795-4798	2.9	5
44	FFA4 receptor (GPR120): A hot target for the development of anti-diabetic therapies. <i>European Journal of Pharmacology</i> , 2015 , 763, 160-8	5.3	33
43	Calcium influx activates adenylyl cyclase 8 for sustained insulin secretion in rat pancreatic beta cells. <i>Diabetologia</i> , 2015 , 58, 324-33	10.3	28
42	A simple and compact fluorescence detection system for capillary electrophoresis and its application to food analysis. <i>Electrophoresis</i> , 2015 , 36, 2509-15	3.6	11
41	Protein Flexibility in Docking-Based Virtual Screening: Discovery of Novel Lymphoid-Specific Tyrosine Phosphatase Inhibitors Using Multiple Crystal Structures. <i>Journal of Chemical Information and Modeling</i> , 2015 , 55, 1973-83	6.1	26
40	Phospho-selective mechanisms of arrestin conformations and functions revealed by unnatural amino acid incorporation and (19)F-NMR. <i>Nature Communications</i> , 2015 , 6, 8202	17.4	121

39	The catalytic role of the M2 metal ion in PP2C. <i>Scientific Reports</i> , 2015 , 5, 8560	4.9	12
38	Identification of para-Substituted Benzoic Acid Derivatives as Potent Inhibitors of the Protein Phosphatase Slingshot. <i>ChemMedChem</i> , 2015 , 10, 1980-7	3.7	7
37	Different downstream signalling of CCK1 receptors regulates distinct functions of CCK in pancreatic beta cells. <i>British Journal of Pharmacology</i> , 2015 , 172, 5050-67	8.6	28
36	The Comparison of Local Infiltration Analgesia with Peripheral Nerve Block following Total Knee Arthroplasty (TKA): A Systematic Review with Meta-Analysis. <i>Journal of Arthroplasty</i> , 2015 , 30, 1664-71	4.4	33
35	Discovery of novel FFA4 (GPR120) receptor agonists with β arrestin2-biased characteristics. <i>Future Medicinal Chemistry</i> , 2015 , 7, 2429-37	4.1	19
34	Fast identification of novel lymphoid tyrosine phosphatase inhibitors using target-ligand interaction-based virtual screening. <i>Journal of Medicinal Chemistry</i> , 2014 , 57, 9309-22	8.3	21
33	The second-sphere residue T263 is important for the function and catalytic activity of PTP1B via interaction with the WPD-loop. <i>International Journal of Biochemistry and Cell Biology</i> , 2014 , 57, 84-95	5.6	13
32	A stress response pathway in mice upregulates somatostatin level and transcription in pancreatic delta cells through Gs and β arrestin 1. <i>Diabetologia</i> , 2014 , 57, 1899-910	10.3	35
31	Constitutive G β coupling activity of very large G protein-coupled receptor 1 (VLGR1) and its regulation by PDZD7 protein. <i>Journal of Biological Chemistry</i> , 2014 , 289, 24215-25	5.4	44
30	The catalytic region and PEST domain of PTPN18 distinctly regulate the HER2 phosphorylation and ubiquitination barcodes. <i>Cell Research</i> , 2014 , 24, 1067-90	24.7	54
29	Molecular mechanism of ERK dephosphorylation by striatal-enriched protein tyrosine phosphatase. <i>Journal of Neurochemistry</i> , 2014 , 128, 315-329	6	26
28	Understanding cadherin EGF LAG seven-pass G-type receptors. <i>Journal of Neurochemistry</i> , 2014 , 131, 699-711	6	30
27	Differences in the H2S-induced quantal release of catecholamine in adrenal chromaffin cells of neonatal and adult rats. <i>Toxicology</i> , 2013 , 312, 12-7	4.4	3
26	The very large G protein coupled receptor (Vlgr1) in hair cells. <i>Journal of Molecular Neuroscience</i> , 2013 , 50, 204-14	3.3	15
25	Signal transducer and activator of transcription 6 directly regulates human ORMDL3 expression. <i>FEBS Journal</i> , 2013 , 280, 2014-26	5.7	25
24	Metal-dependent protein phosphatase γ 1A functions as an extracellular signal-regulated kinase phosphatase. <i>FEBS Journal</i> , 2013 , 280, 2700-11	5.7	21
23	Novel role of NOD2 in mediating Ca ²⁺ signaling: evidence from NOD2-regulated podocyte TRPC6 channels in hyperhomocysteinemia. <i>Hypertension</i> , 2013 , 62, 506-11	8.5	26
22	Cadmium is a potent inhibitor of PPM phosphatases and targets the M1 binding site. <i>Scientific Reports</i> , 2013 , 3, 2333	4.9	44

21	Silicone rubber as a novel insulating material for manufacturing cylindrical glass carbon fiber electrodes. <i>Materials Letters</i> , 2012 , 79, 159-162	3.3	8
20	H ₂ S induces catecholamine secretion in rat adrenal chromaffin cells. <i>Toxicology</i> , 2012 , 302, 40-3	4.4	11
19	Oxytocin hyperpolarizes cultured duodenum myenteric intrinsic primary afferent neurons by opening BK(Ca) channels through IP ₃ pathway. <i>Journal of Neurochemistry</i> , 2012 , 121, 516-25	6	34
18	α-adrenergic receptor and astrocyte glucose metabolism. <i>Journal of Molecular Neuroscience</i> , 2012 , 48, 456-63	3.3	48
17	Biochemical and functional studies of lymphoid-specific tyrosine phosphatase (Lyp) variants S201F and R266W. <i>PLoS ONE</i> , 2012 , 7, e43631	3.7	14
16	Thiopental-induced insulin secretion via activation of IP ₃ -sensitive calcium stores in rat pancreatic β cells. <i>American Journal of Physiology - Cell Physiology</i> , 2012 , 302, C796-803	5.4	9
15	Discovery of a novel series of inhibitors of lymphoid tyrosine phosphatase with activity in human T cells. <i>Journal of Medicinal Chemistry</i> , 2011 , 54, 1640-54	8.3	42
14	SHP2 is a target of the immunosuppressant tautomycetin. <i>Chemistry and Biology</i> , 2011 , 18, 101-10		42
13	Substrate specificity of lymphoid-specific tyrosine phosphatase (Lyp) and identification of Src kinase-associated protein of 55 kDa homolog (SKAP-HOM) as a Lyp substrate. <i>Journal of Biological Chemistry</i> , 2011 , 286, 30526-30534	5.4	22
12	Phosphatidylinositol-4-phosphate-5-kinase alpha deficiency alters dynamics of glucose-stimulated insulin release to improve glucohomeostasis and decrease obesity in mice. <i>Diabetes</i> , 2011 , 60, 454-63	0.9	8
11	The transcription factor prolactin regulatory element-binding protein mediates prolactin transcription induced by thyrotropin-releasing hormone in GH3 cells. <i>Endocrine</i> , 2010 , 38, 53-9	4	9
10	PREB regulates transcription of pancreatic glucokinase in response to glucose and cAMP. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 2386-2395	5.6	5
9	Targeting inactive enzyme conformation: aryl diketoacid derivatives as a new class of PTP1B inhibitors. <i>Journal of the American Chemical Society</i> , 2008 , 130, 17075-84	16.4	73
8	Synthesis and cell-based activity of a potent and selective protein tyrosine phosphatase 1B inhibitor prodrug. <i>Journal of Medicinal Chemistry</i> , 2007 , 50, 856-64	8.3	68
7	Structure, inhibitor, and regulatory mechanism of Lyp, a lymphoid-specific tyrosine phosphatase implicated in autoimmune diseases. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007 , 104, 19767-72	11.5	115
6	Phosphatase activity, trimerization, and the C-terminal polybasic region are all required for PRL1-mediated cell growth and migration. <i>Journal of Biological Chemistry</i> , 2007 , 282, 29043-29051	5.4	60
5	Calcium influx through If channels in rat ventricular myocytes. <i>American Journal of Physiology - Cell Physiology</i> , 2007 , 292, C1147-55	5.4	32
4	Regulation of scavenger receptor class BI gene expression by angiotensin II in vascular endothelial cells. <i>Hypertension</i> , 2007 , 49, 1378-84	8.5	25

3	Calcium influx through hyperpolarization-activated cation channels (I(h) channels) contributes to activity-evoked neuronal secretion. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004 , 101, 1051-6	11.5	84
2	Control of secretion by temporal patterns of action potentials in adrenal chromaffin cells. <i>Journal of Neuroscience</i> , 2003 , 23, 11235-43	6.6	35
1	Na ⁺ channel inactivation: a comparative study between pancreatic islet beta-cells and adrenal chromaffin cells in rat. <i>Journal of Physiology</i> , 2003 , 548, 191-202	3.9	27