Xuan Zhang

List of Publications by Citations

72 papers	2,137 citations	27 h-index	44 g-index
80 ext. papers	2,886 ext. citations	7.1 avg, IF	4.9 L-index

#	Paper	IF	Citations
72	A selective BCL-X PROTAC degrader achieves safe and potent antitumor activity. *Nature Medicine*, **2019**, 25, 1938-1947	50.5	157
71	ANG II infusion promotes abdominal aortic aneurysms independent of increased blood pressure in hypercholesterolemic mice. *American Journal of Physiology - Heart and Circulatory Physiology*, **2009**, 296, H1660-5	5.2	156
70	Angiotensin converting enzyme 2 contributes to sex differences in the development of obesity hypertension in C57BL/6 mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2012**, 32, 1392-9	9.4	143
69	Discovery of piperlongumine as a potential novel lead for the development of senolytic agents. *Aging*, **2016**, 8, 2915-2926	5.6	131
68	Knockout of Adamts7, a novel coronary artery disease locus in humans, reduces atherosclerosis in mice. *Circulation*, **2015**, 131, 1202-1213	16.7	80
67	Androgen increases AT1a receptor expression in abdominal aortas to promote angiotensin II-induced AAAs in apolipoprotein E-deficient mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2008**, 28, 1251-6	9.4	80
66	Using proteolysis-targeting chimera technology to reduce navitoclax platelet toxicity and improve its senolytic activity. *Nature Communications*, **2020**, 11, 1996	17.4	73
65	Oxidation resistance 1 is a novel senolytic target. *Aging Cell*, **2018**, 17, e12780	9.9	66
64	PROteolysis TArgeting Chimeras (PROTACs) as emerging anticancer therapeutics. *Oncogene*, **2020**, 39, 4909-4924	9.2	62
63	Angiotensin-converting enzyme 2 deficiency in whole body or bone marrow-derived cells increases atherosclerosis in low-density lipoprotein receptor-/- mice. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2011**, 31, 758-65	9.4	62
62	Design, synthesis and biological evaluation of colchicine derivatives as novel tubulin and histone deacetylase dual inhibitors. *European Journal of Medicinal Chemistry*, **2015**, 95, 127-35	6.8	60
61	The long noncoding RNA landscape in hypoxic and inflammatory renal epithelial injury. *American Journal of Physiology - Renal Physiology*, **2015**, 309, F901-13	4.3	57
60	The discovery of colchicine-SAHA hybrids as a new class of antitumor agents. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 3240-4	3.4	51
59	Transient exposure of neonatal female mice to testosterone abrogates the sexual dimorphism of abdominal aortic aneurysms. *Circulation Research*, **2012**, 110, e73-85	15.7	51
58	Angiotensin-converting enzyme 2 decreases formation and severity of angiotensin II-induced abdominal aortic aneurysms. *Arteriosclerosis, Thrombosis, and Vascular Biology*, **2014**, 34, 2617-23	9.4	42
57	Parallel Domestication of the Heading Date 1 Gene in Cereals. *Molecular Biology and Evolution*, **2015**, 32, 2726-37	8.3	40
56	Castration of male mice prevents the progression of established angiotensin II-induced abdominal aortic aneurysms. *Journal of Vascular Surgery*, **2015**, 61, 767-76	3.5	37

55	Discovery of PROTAC BCL-X degraders as potent anticancer agents with low on-target platelet toxicity. *European Journal of Medicinal Chemistry*, **2020**, 192, 112186	6.8	37
54	Utilizing PROTAC technology to address the on-target platelet toxicity associated with inhibition of BCL-X. *Chemical Communications*, **2019**, 55, 14765-14768	5.8	37
53	Association of the peripheral blood levels of circulating microRNAs with both recurrent miscarriage and the outcomes of embryo transfer in an in vitro fertilization process. *Journal of Translational Medicine*, **2018**, 16, 186	8.5	35
52	The genetic architecture of nodal root number in maize. *Plant Journal*, **2018**, 93, 1032-1044	6.9	31
51	A near-infrared fluorescent probe for rapid detection of hydrogen peroxide in living cells. *Tetrahedron*, **2015**, 71, 4842-4845	2.4	31
50	Design, Synthesis, and Biological Evaluation of New Cathepsin B-Sensitive Camptothecin Nanoparticles Equipped with a Novel Multifuctional Linker. *Bioconjugate Chemistry*, **2016**, 27, 1267-75	6.3	31
49	Inhibition of USP7 activity selectively eliminates senescent cells in part via restoration of p53 activity. *Aging Cell*, **2020**, 19, e13117	9.9	30
48	The discovery and optimization of novel dual inhibitors of topoisomerase II and histone deacetylase. *Bioorganic and Medicinal Chemistry*, **2013**, 21, 6981-95	3.4	29
47	Senolytic activity of piperlongumine analogues: Synthesis and biological evaluation. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 3925-3938	3.4	27
46	Deep RNA Sequencing Uncovers a Repertoire of Human Macrophage Long Intergenic Noncoding RNAs Modulated by Macrophage Activation and Associated With Cardiometabolic Diseases. *Journal of the American Heart Association*, **2017**, 6,	6	27
45	DT2216-a Bcl-xL-specific degrader is highly active against Bcl-xL-dependent T cell lymphomas. *Journal of Hematology and Oncology*, **2020**, 13, 95	22.4	26
44	Proteolysis targeting chimeras (PROTACs) are emerging therapeutics for hematologic malignancies. *Journal of Hematology and Oncology*, **2020**, 13, 103	22.4	26
43	Genome-wide interrogation reveals hundreds of long intergenic noncoding RNAs that associate with cardiometabolic traits. *Human Molecular Genetics*, **2016**, 25, 3125-3141	5.6	25
42	Discovery of histone deacetylase 3 (HDAC3)-specific PROTACs. *Chemical Communications*, **2020**, 56, 9866-9869	5.8	24
41	The design and synthesis of a new class of RTK/HDAC dual-targeted inhibitors. *Molecules*, **2013**, 18, 6491-6503	4.5	23
40	The tin1 gene retains the function of promoting tillering in maize. *Nature Communications*, **2019**, 10, 5608	17.4	22
39	krn1, a major quantitative trait locus for kernel row number in maize. *New Phytologist*, **2019**, 223, 1634-1646	9.8	21
38	Polychlorinated biphenyl 77 augments angiotensin II-induced atherosclerosis and abdominal aortic aneurysms in male apolipoprotein E deficient mice. *Toxicology and Applied Pharmacology*, **2011**, 257, 148-54	4.6	21

37	Discovery of IAP-recruiting BCL-X PROTACs as potent degraders across multiple cancer cell lines. *European Journal of Medicinal Chemistry*, **2020**, 199, 112397	6.8	20
36	Novel Linear Lipopeptide Paenipeptins with Potential for Eradicating Biofilms and Sensitizing Gram-Negative Bacteria to Rifampicin and Clarithromycin. *Journal of Medicinal Chemistry*, **2017**, 60, 9630-9640	8.3	19
35	Exogenous 17-□estradiol administration blunts progression of established angiotensin II-induced abdominal aortic aneurysms in female ovariectomized mice. *Biology of Sex Differences*, **2015**, 6, 12	9.3	17
34	A new allele of the Brachytic2 gene in maize can efficiently modify plant architecture. *Heredity*, **2018**, 121, 75-86	3.6	17
33	NIR absorbing DICPO derivatives applied to wide range of pH and detection of glutathione in tumor. *Tetrahedron*, **2015**, 71, 7865-7868	2.4	16
32	Endogenous androgen deficiency enhances diet-induced hypercholesterolemia and atherosclerosis in low-density lipoprotein receptor-deficient mice. *Gender Medicine*, **2012**, 9, 319-28		15
31	A Large Transposon Insertion in the Promoter Increases Stalk Strength in Maize. *Plant Cell*, **2020**, 32, 152-165	11.6	14
30	New histone demethylase LSD1 inhibitor selectively targets teratocarcinoma and embryonic carcinoma cells. *Bioorganic and Medicinal Chemistry*, **2018**, 26, 1523-1537	3.4	14
29	Design, synthesis and biological evaluation of C(6)-indole celastrol derivatives as potential antitumor agents. *RSC Advances*, **2015**, 5, 19620-19623	3.7	14
28	Assays and technologies for developing proteolysis targeting chimera degraders. *Future Medicinal Chemistry*, **2020**, 12, 1155-1179	4.1	13
27	Proteolysis-targeting chimera against BCL-X destroys tumor-infiltrating regulatory T cells. *Nature Communications*, **2021**, 12, 1281	17.4	13
26	QTL mapping in a maize F population using Genotyping-by-Sequencing and a modified fine-mapping strategy. *Plant Science*, **2018**, 276, 171-180	5.3	11
25	Design, synthesis and biological evaluation of 4?-demethyl-4-deoxypodophyllotoxin derivatives as novel tubulin and histone deacetylase dual inhibitors. *RSC Advances*, **2014**, 4, 40444-40448	3.7	9
24	De novo RNA sequence assembly during in vivo inflammatory stress reveals hundreds of unannotated lincRNAs in human blood CD14 monocytes and in adipose tissue. *Physiological Genomics*, **2017**, 49, 287-305	3.6	8
23	Uterine Expression of NDRG4 Is Induced by Estrogen and Up-Regulated during Embryo Implantation Process in Mice. *PLoS ONE*, **2016**, 11, e0155491	3.7	7
22	Development of a BCL-xL and BCL-2 dual degrader with improved anti-leukemic activity. *Nature Communications*, **2021**, 12, 6896	17.4	7
21	Synthesis of (2,8T,3T)-□ocodienol, a tocoflexol family member designed to have a superior pharmacokinetic profile compared to □ocotrienol. *Tetrahedron*, **2016**, 72, 4001-4006	2.4	6
20	The computational approaches of lncRNA identification based on coding potential: and challenges. *Computational and Structural Biotechnology Journal*, **2020**, 18, 3666-3677	6.8	6

19	Recent advances in small molecular modulators targeting histone deacetylase 6. *Future Drug Discovery*, **2020**, 2, FDD53	2	6
18	Overcoming Gemcitabine Resistance in Pancreatic Cancer Using the BCL-X-Specific Degrader DT2216. *Molecular Cancer Therapeutics*, **2021**,	6.1	5
17	Increased Expression of NDRG3 in Mouse Uterus During Embryo Implantation and in Mouse Endometrial Stromal Cells During In Vitro Decidualization. *Reproductive Sciences*, **2018**, 25, 1197-1207	3	5
16	Synthesis and Liver Microsomal Metabolic Stability Studies of a Fluorine-Substituted Tocotrienol Derivative. *ChemMedChem*, **2020**, 15, 506-516	3.7	4
15	Stereoselective Synthesis of Melatonin Receptor Agonist Ramelteon via Asymmetric Michael Addition. *Heterocycles*, **2012**, 85, 73	0.8	4
14	Leveraging histone modifications to improve genome annotations. *G3: Genes, Genomes, Genetics*, **2021**, 11,	3.2	4
13	Deuteration of the farnesyl terminal methyl groups of tocotrienol and its effects on the metabolic stability and ability of inducing G-CSF production. *Bioorganic and Medicinal Chemistry*, **2020**, 28, 115498	3.4	4
12	Discovery of a Novel BCL-X PROTAC Degrader with Enhanced BCL-2 Inhibition. *Journal of Medicinal Chemistry*, **2021**, 64, 14230-14246	8.3	4
11	Muscarinic acetylcholine receptor binding affinities of pethidine analogs. *Bioorganic and Medicinal Chemistry Letters*, **2015**, 25, 5032-5	2.9	2
10	Design, synthesis, and biological evaluation of a new class of MT2-selective agonists. *RSC Advances*, **2014**, 4, 25871-25874	3.7	2
9	PROTACs are effective in addressing the platelet toxicity associated with BCL-X inhibitors. *Exploration of Targeted Anti-tumor Therapy*, **2020**, 1, 259-272	2.5	2
8	Synthesis of O- and N-alkylated products of 1,2,3,4-tetrahydrobenzo[][2,7]naphthyrin-5(6)-one. *Tetrahedron Letters*, **2015**, 56, 6472-6474	2	1
7	DT2216, a BCL-XL Proteolysis Targeting Chimera (PROTAC), Is a Potent Anti T-Cell Lymphoma Agent That Does Not Induce Significant Thrombocytopenia. *Blood*, **2019**, 134, 303-303	2.2	1
6	Targeting BCL-XL By Protac DT2216 Effectively Eliminates Leukemia Cells in T-ALL Pre-Clinical Models. *Blood*, **2019**, 134, 3870-3870	2.2	1
5	Concise Synthesis of ()-CEHC, a Metabolite of Vitamin E. *ACS Omega*, **2021**, 6, 4355-4361	3.9	1
4	Profiling single-cell chromatin accessibility in plants. *STAR Protocols*, **2021**, 2, 100737	1.4	0
3	GCEN: An Easy-to-Use Toolkit for Gene Co-Expression Network Analysis and lncRNAs Annotation. *Current Issues in Molecular Biology*, **2022**, 44, 1479-1487	2.9	0
2	Maternal exposure to ambient PM causes fetal growth restriction via the inhibition of spiral artery remodeling in mice.. *Ecotoxicology and Environmental Safety*, **2022**, 237, 113512	7	0

1	Discovery of M5 Muscarinic Acetylcholine Receptor Antagonists: 1-Methyl-4-Phenylpiperidine Analogs. *FASEB Journal*, **2015**, 29, 768.17	0.9