

# Zhen-Chuan Fan

## List of Publications by Year in descending order

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57  
papers

1,399  
citations

257101

24  
h-index

377514

34  
g-index

61  
all docs

61  
docs citations

61  
times ranked

1618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Intraflagellar Transport (IFT) Protein IFT25 Is a Phosphoprotein Component of IFT Complex B and Physically Interacts with IFT27 in <i>Chlamydomonas</i> . <i>PLoS ONE</i> , 2009, 4, e5384.	1.1	94
2	Functional characterization and pharmacological rescue of melanocortin-4 receptor mutations identified from obese patients. <i>Journal of Cellular and Molecular Medicine</i> , 2009, 13, 3268-3282.	1.6	86
3	Synthesis and anti-cancer activity evaluation of novel prenylated and geranylated chalcone natural products and their analogs. <i>European Journal of Medicinal Chemistry</i> , 2015, 92, 439-448.	2.6	77
4	<i>Chlamydomonas</i> IFT70/CrDYF-1 Is a Core Component of IFT Particle Complex B and Is Required for Flagellar Assembly. <i>Molecular Biology of the Cell</i> , 2010, 21, 2696-2706.	0.9	66
5	Synthesis and anti-cancer activity evaluation of 5-(2-carboxyethenyl)-isatin derivatives. <i>European Journal of Medicinal Chemistry</i> , 2016, 112, 145-156.	2.6	52
6	Functions of acidic transmembrane residues in human melanocortin-3 receptor binding and activation. <i>Biochemical Pharmacology</i> , 2008, 76, 520-530.	2.0	47
7	Recombinant expression, purification and antimicrobial activity of a novel antimicrobial peptide PaDef in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2017, 130, 90-99.	0.6	41
8	Proteinase and glycoside hydrolase production is enhanced in solid-state fermentation by manipulating the carbon and nitrogen fluxes in <i>Aspergillus oryzae</i> . <i>Food Chemistry</i> , 2019, 271, 606-613.	4.2	38
9	Expression, purification and characterization of a recombinant antimicrobial peptide Hispidalin in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2019, 160, 19-27.	0.6	37
10	Intraflagellar transport protein RABL5/IFT22 recruits the BBSome to the basal body through the GTPase ARL6/BBS3. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 2496-2505.	3.3	37
11	Expression, purification and initial characterization of a novel recombinant antimicrobial peptide Mytichitin-A in <i>Pichia pastoris</i> . <i>Protein Expression and Purification</i> , 2016, 127, 35-43.	0.6	36
12	Arginase participates in the methyl jasmonate-regulated quality maintenance of postharvest <i>Agaricus bisporus</i> fruit bodies. <i>Postharvest Biology and Technology</i> , 2017, 132, 7-14.	2.9	35
13	Pharmacological analyses of two naturally occurring porcine melanocortin-4 receptor mutations in domestic pigs. <i>Domestic Animal Endocrinology</i> , 2008, 34, 383-390.	0.8	33
14	Effect of salt-tolerant yeast of <i>Candida versatilis</i> and <i>Zygosaccharomyces rouxii</i> on the production of biogenic amines during soy sauce fermentation. <i>Journal of the Science of Food and Agriculture</i> , 2014, 94, 1537-1542.	1.7	33
15	Novel reassortant influenza viruses between pandemic (H1N1) 2009 and other influenza viruses pose a risk to public health. <i>Microbial Pathogenesis</i> , 2015, 89, 62-72.	1.3	33
16	A novel bicistronic expression system composed of the intraflagellar transport protein gene <i>ift25</i> and FMDV 2A sequence directs robust nuclear gene expression in <i>Chlamydomonas reinhardtii</i> . <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 4227-4245.	1.7	32
17	Molecular cloning and pharmacological characterization of porcine melanocortin-3 receptor. <i>Journal of Endocrinology</i> , 2007, 196, 139-148.	1.2	30
18	Multimer of the antimicrobial peptide Mytichitin-A expressed in <i>Chlamydomonas reinhardtii</i> exerts a broader antibacterial spectrum and increased potency. <i>Journal of Bioscience and Bioengineering</i> , 2018, 125, 175-179.	1.1	28

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19	Bardet-Biedl syndrome 3 protein promotes ciliary exit of the signaling protein phospholipase D via the BBSome. <i>ELife</i> , 2021, 10, .	2.8	27
20	Rescue of defective MC4R cell-surface expression and signaling by a novel pharmacoperone Ipsen 17. <i>Journal of Molecular Endocrinology</i> , 2014, 53, 17-29.	1.1	26
21	Multivalent S-sialoside protein conjugates block influenza hemagglutinin and neuraminidase. <i>Carbohydrate Research</i> , 2016, 435, 68-75.	1.1	26
22	Application of antimicrobial peptide mytichitin-CB in pork preservation during cold storage. <i>Food Control</i> , 2021, 125, 108041.	2.8	26
23	Synthesis of multivalent difluorinated zanamivir analogs as potent antiviral inhibitors. <i>Tetrahedron Letters</i> , 2016, 57, 2579-2582.	0.7	25
24	Multivalent oleanolic acid human serum albumin conjugate as nonglycosylated neomucin for influenza virus capture and entry inhibition. <i>European Journal of Medicinal Chemistry</i> , 2018, 143, 1723-1731.	2.6	25
25	A novel melanocortin-4 receptor gene mutation in a female patient with severe childhood obesity. <i>Endocrine</i> , 2009, 36, 52-59.	1.1	24
26	<i>Chlamydomonas</i> IFT25 is dispensable for flagellar assembly but required to export the BBSome from flagella. <i>Biology Open</i> , 2017, 6, 1680-1691.	0.6	24
27	Cardiomyocyte orientation modulated by the Numb family proteinsâ€N-cadherin axis is essential for ventricular wall morphogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 15560-15569.	3.3	22
28	Bovine viral diarrhea virus is a suitable viral vector for stable expression of heterologous gene when inserted in between Npro and C genes. <i>Virus Research</i> , 2008, 138, 97-104.	1.1	21
29	Development and perspectives of rapid detection technology in food and environment. <i>Critical Reviews in Food Science and Nutrition</i> , 2022, 62, 4706-4725.	5.4	21
30	CDC42 is required for epicardial and pro-epicardial development by mediating FGF receptor trafficking to the plasma membrane. <i>Development (Cambridge)</i> , 2017, 144, 1635-1647.	1.2	20
31	Total synthesis of 8-(6-umbelliferyl)-apigenin and its analogs as anti-diabetic reagents. <i>European Journal of Medicinal Chemistry</i> , 2016, 122, 674-683.	2.6	19
32	<i>Chlamydomonas reinhardtii</i> -expressed multimer of Bacteriocin LS2 potently inhibits the growth of bacteria. <i>Process Biochemistry</i> , 2020, 95, 139-147.	1.8	19
33	Epiphytic Bacteria Are Essential for the Production and Transformation of Algae-Derived Carboxyl-Rich Alicyclic Molecule (CRAM)-like DOM. <i>Microbiology Spectrum</i> , 2021, 9, e0153121.	1.2	19
34	An improved reverse genetics system for generation of bovine viral diarrhea virus as a BAC cDNA. <i>Journal of Virological Methods</i> , 2008, 149, 309-315.	1.0	18
35	<i>Chlamydomonas reinhardtii</i> -expressed multimer of ToAMP4 inhibits the growth of bacteria of both Gram-positive and Gram-negative. <i>Process Biochemistry</i> , 2020, 91, 311-318.	1.8	18
36	<i>Chlamydomonas</i> LZTFL1 mediates phototaxis via controlling BBSome recruitment to the basal body and its reassembly at the ciliary tip. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	18

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37	Non-targeted metabolomic reveals the effect of salt stress on global metabolite of halotolerant yeast <i>Candida versatilis</i> and principal component analysis. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2014, 41, 1553-1562.	1.4	14
38	Synthesis and immunogenicity of PG-tb1 monovalent glycoconjugate. <i>European Journal of Medicinal Chemistry</i> , 2017, 134, 140-146.	2.6	14
39	Thiosialoside-decorated polymers use a two-step mechanism to inhibit both early and late stages of influenza virus infection. <i>European Journal of Medicinal Chemistry</i> , 2020, 199, 112357.	2.6	14
40	5-(2-Carboxyethenyl) isatin derivative induces G2/M cell cycle arrest and apoptosis in human leukemia K562 cells. <i>Biochemical and Biophysical Research Communications</i> , 2014, 450, 1650-1655.	1.0	13
41	Efficient production of a recombinant <i>Venerupis philippinarum</i> defensin (VpDef) in <i>Pichia pastoris</i> and characterization of its antibacterial activity and stability. <i>Protein Expression and Purification</i> , 2018, 147, 78-84.	0.6	12
42	Ornithine decarboxylase is involved in methyl jasmonate-regulated postharvest quality retention in button mushrooms ( <i>Agaricus bisporus</i> ). <i>Journal of the Science of Food and Agriculture</i> , 2019, 99, 790-796.	1.7	12
43	Comparative study of physiological adaptation to salt stress in the genome shuffled <i>Candida versatilis</i> and a wild-type salt-tolerant yeast strain. <i>European Food Research and Technology</i> , 2014, 238, 675-682.	1.6	11
44	Generation and characterization of an Npro-disrupted marker bovine viral diarrhea virus derived from a BAC cDNA. <i>Journal of Virological Methods</i> , 2008, 151, 257-263.	1.0	10
45	Low toxic and high soluble camptothecin derivative 2 <sup>ac</sup> 47 effectively induces apoptosis of tumor cells in vitro. <i>Biochemical and Biophysical Research Communications</i> , 2016, 472, 477-481.	1.0	9
46	Development of a reporter bovine viral diarrhea virus and initial evaluation of its application for high throughput antiviral drug screening. <i>Journal of Virological Methods</i> , 2012, 180, 54-61.	1.0	7
47	The potential of antimicrobial peptide Hispidalin application in pork preservation during cold storage. <i>Journal of Food Processing and Preservation</i> , 2020, 44, e14443.	0.9	7
48	<i>Chlamydomonas reinhardtii</i> -derived multimer Mytichitin-CB possesses potent antibacterial properties. <i>Process Biochemistry</i> , 2020, 96, 21-29.	1.8	7
49	Apple phlorizin reduce plasma cholesterol by down-regulating hepatic HMG-CoA reductase and enhancing the excretion of fecal sterols. <i>Journal of Functional Foods</i> , 2019, 62, 103548.	1.6	6
50	The Role of Suspension Array Technology in Rapid Detection of Foodborne Pollutants: Applications and Future Challenges. <i>Critical Reviews in Analytical Chemistry</i> , 2021, , 1-14.	1.8	6
51	The extra 16-amino-acid peptide at C-terminal NS2 of the hypervirulent type-2 bovine viral diarrhea viruses has no effect on viral replication and NS2-3 processing of type-1 virus. <i>Virus Genes</i> , 2010, 41, 218-223.	0.7	4
52	An alternative $\sim 1/+2$ open reading frame exists within viral Npro(1 <sup>ac</sup> 19) region of bovine viral diarrhea virus SD-1. <i>Virus Research</i> , 2012, 163, 341-351.	1.1	4
53	Regeneration and characterization of a recombinant bovine viral diarrhea virus and determination of its efficacy to cross the bovine placenta. <i>Virus Genes</i> , 2009, 38, 129-135.	0.7	3
54	Development of vaccines for prevention of peste-des-petits-ruminants virus infection. <i>Microbial Pathogenesis</i> , 2020, 142, 104045.	1.3	3

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55	Application of antimicrobial peptide Mytichitin in pork preservation during refrigerated storage. Journal of Food Processing and Preservation, 2021, 45, e15404.	0.9	2
56	CDC42 is required for epicardial and pro-epicardial development by mediating FGF receptor trafficking to the plasma membrane. Journal of Cell Science, 2017, 130, e1.2-e1.2.	1.2	2
57	Functions of Transmembrane Domain 6 in Human Melanocortin Receptor. FASEB Journal, 2009, 23, 943.4.	0.2	0