

Dapeng Zhang

List of Publications by Year in descending order

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57
papers

3,943
citations

172207

29
h-index

143772

57
g-index

61
all docs

61
docs citations

61
times ranked

6537
citing authors

#	ARTICLE	IF	CITATIONS
1	N6-Methyladenine DNA Modification in Drosophila. <i>Cell</i> , 2015, 161, 893-906.	13.5	570
2	Polymorphic toxin systems: Comprehensive characterization of trafficking modes, processing, mechanisms of action, immunity and ecology using comparative genomics. <i>Biology Direct</i> , 2012, 7, 18.	1.9	440
3	Discovery of Novel DENN Proteins: Implications for the Evolution of Eukaryotic Intracellular Membrane Structures and Human Disease. <i>Frontiers in Genetics</i> , 2012, 3, 283.	1.1	220
4	Comparative genomic analyses reveal a vast, novel network of nucleotide-centric systems in biological conflicts, immunity and signaling. <i>Nucleic Acids Research</i> , 2015, 43, 10633-10654.	6.5	200
5	A novel immunity system for bacterial nucleic acid degrading toxins and its recruitment in various eukaryotic and DNA viral systems. <i>Nucleic Acids Research</i> , 2011, 39, 4532-4552.	6.5	184
6	Evolution of the deaminase fold and multiple origins of eukaryotic editing and mutagenic nucleic acid deaminases from bacterial toxin systems. <i>Nucleic Acids Research</i> , 2011, 39, 9473-9497.	6.5	154
7	The goldfish (<i>Carassius auratus</i>) as a model for neuroendocrine signaling. <i>Molecular and Cellular Endocrinology</i> , 2008, 293, 43-56.	1.6	147
8	A conserved NAD ⁺ binding pocket that regulates protein-protein interactions during aging. <i>Science</i> , 2017, 355, 1312-1317.	6.0	140
9	Adenine methylation in eukaryotes: Apprehending the complex evolutionary history and functional potential of an epigenetic modification. <i>BioEssays</i> , 2016, 38, 27-40.	1.2	132
10	Identification of novel families and classification of the C2 domain superfamily elucidate the origin and evolution of membrane targeting activities in eukaryotes. <i>Gene</i> , 2010, 469, 18-30.	1.0	124
11	Computational identification of novel biochemical systems involved in oxidation, glycosylation and other complex modifications of bases in DNA. <i>Nucleic Acids Research</i> , 2013, 41, 7635-7655.	6.5	115
12	<i>O</i> -GlcNAcylation destabilizes the active tetrameric PKM2 to promote the Warburg effect. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2017, 114, 13732-13737.	3.3	105
13	The Natural History of ADP-Ribosyltransferases and the ADP-Ribosylation System. <i>Current Topics in Microbiology and Immunology</i> , 2014, 384, 3-32.	0.7	99
14	Bacterial GRAS domain proteins throw new light on gibberellic acid response mechanisms. <i>Bioinformatics</i> , 2012, 28, 2407-2411.	1.8	93
15	Integration of membrane and nuclear estrogen receptor signaling. <i>Comparative Biochemistry and Physiology Part A, Molecular & Integrative Physiology</i> , 2006, 144, 306-315.	0.8	81
16	Novel Immunoglobulin Domain Proteins Provide Insights into Evolution and Pathogenesis of SARS-CoV-2-Related Viruses. <i>MBio</i> , 2020, 11, .	1.8	81
17	EFCAB7 and IQCE Regulate Hedgehog Signaling by Tethering the EVC-EVC2 Complex to the Base of Primary Cilia. <i>Developmental Cell</i> , 2014, 28, 483-496.	3.1	76
18	OST-HTH: a novel predicted RNA-binding domain. <i>Biology Direct</i> , 2010, 5, 13.	1.9	67

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19	Gene flow and biological conflict systems in the origin and evolution of eukaryotes. <i>Frontiers in Cellular and Infection Microbiology</i> , 2012, 2, 89.	1.8	67
20	New insights into granin-derived peptides: evolution and endocrine roles. <i>General and Comparative Endocrinology</i> , 2009, 164, 161-174.	0.8	58
21	Transposons to toxins: the provenance, architecture and diversification of a widespread class of eukaryotic effectors. <i>Nucleic Acids Research</i> , 2016, 44, 3513-3533.	6.5	54
22	Lineage-specific expansions of TET/JBP genes and a new class of DNA transposons shape fungal genomic and epigenetic landscapes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 1676-1683.	3.3	51
23	Functional insight into Maelstrom in the germline piRNA pathway: a unique domain homologous to the DnaQ-H 3'→5' exonuclease, its lineage-specific expansion/loss and evolutionarily active site switch. <i>Biology Direct</i> , 2008, 3, 48.	1.9	49
24	Novel transglutaminase-like peptidase and C2 domains elucidate the structure, biogenesis and evolution of the ciliary compartment. <i>Cell Cycle</i> , 2012, 11, 3861-3875.	1.3	46
25	Antimicrobial Peptides, Polymorphic Toxins, and Self-Nonself Recognition Systems in Archaea: an Untapped Armory for Intermicrobial Conflicts. <i>MBio</i> , 2019, 10, .	1.8	41
26	Resilience of biochemical activity in protein domains in the face of structural divergence. <i>Current Opinion in Structural Biology</i> , 2014, 26, 92-103.	2.6	39
27	Defining Global Neuroendocrine Gene Expression Patterns Associated with Reproductive Seasonality in Fish. <i>PLoS ONE</i> , 2009, 4, e5816.	1.1	39
28	Using Generalized Procrustes Analysis (GPA) for normalization of cDNA microarray data. <i>BMC Bioinformatics</i> , 2008, 9, 25.	1.2	38
29	Profiling neuroendocrine gene expression changes following fadrozole-induced estrogen decline in the female goldfish. <i>Physiological Genomics</i> , 2009, 38, 351-361.	1.0	29
30	Whole exome sequencing identifies the TNNI3K gene as a cause of familial conduction system disease and congenital junctional ectopic tachycardia. <i>International Journal of Cardiology</i> , 2015, 185, 114-116.	0.8	29
31	Protein and DNA Modifications: Evolutionary Imprints of Bacterial Biochemical Diversification and Geochemistry on the Provenance of Eukaryotic Epigenetics. <i>Cold Spring Harbor Perspectives in Biology</i> , 2014, 6, a016063-a016063.	2.3	26
32	Profiling the rainbow trout hepatic miRNAome under diet-induced hyperglycemia. <i>Physiological Genomics</i> , 2019, 51, 411-431.	1.0	26
33	The XS domain of a plant specific SGS3 protein adopts a unique RNA recognition motif (RRM) fold. <i>Cell Cycle</i> , 2008, 7, 2268-2270.	1.3	25
34	SANTA domain: a novel conserved protein module in Eukaryota with potential involvement in chromatin regulation. <i>Bioinformatics</i> , 2006, 22, 2459-2462.	1.8	23
35	Loss of the Spinocerebellar Ataxia type 3 disease protein ATXN3 alters transcription of multiple signal transduction pathways. <i>PLoS ONE</i> , 2018, 13, e0204438.	1.1	23
36	The catalytic core of DEMETER guides active DNA demethylation in <i>Arabidopsis</i> . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 17563-17571.	3.3	23

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37	Long non-coding RNA ELDR enhances oral cancer growth by promoting ILF3-cyclin E1 signaling. <i>EMBO Reports</i> , 2020, 21, e51042.	2.0	21
38	Secretoneurin is a potential paracrine factor from lactotrophs stimulating gonadotropin release in the goldfish pituitary. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2010, 299, R1290-R1297.	0.9	20
39	MicroTrout: A comprehensive, genome-wide miRNA target prediction framework for rainbow trout, <i>Oncorhynchus mykiss</i> . <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2016, 20, 19-26.	0.4	20
40	Unification and extensive diversification of M/Orf3-related ion channel proteins in coronaviruses and other nidoviruses. <i>Virus Evolution</i> , 2021, 7, veab014.	2.2	17
41	Temporal expression and steroidal regulation of piRNA pathway genes (mael, piwi, vasa) during <i>Silurana (Xenopus) tropicalis</i> embryogenesis and early larval development. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2010, 152, 202-206.	1.3	16
42	Functional prediction and physiological characterization of a novel short trans-membrane protein 1 as a subunit of mitochondrial respiratory complexes. <i>Physiological Genomics</i> , 2012, 44, 1133-1140.	1.0	16
43	Rapid modulation of gene expression profiles in the telencephalon of male goldfish following exposure to waterborne sex pheromones. <i>General and Comparative Endocrinology</i> , 2013, 192, 204-213.	0.8	16
44	Novel clades of the HU/IHF superfamily point to unexpected roles in the eukaryotic centrosome, chromosome partitioning, and biologic conflicts. <i>Cell Cycle</i> , 2017, 16, 1093-1103.	1.3	14
45	Social status regulates the hepatic miRNAome in rainbow trout: Implications for posttranscriptional regulation of metabolic pathways. <i>PLoS ONE</i> , 2019, 14, e0217978.	1.1	14
46	Acidic pH irreversibly activates the signaling enzyme SARM1. <i>FEBS Journal</i> , 2021, 288, 6783-6794.	2.2	11
47	The eukaryotic translation initiation regulator CDC123 defines a divergent clade of ATP-grasp enzymes with a predicted role in novel protein modifications. <i>Biology Direct</i> , 2015, 10, 21.	1.9	9
48	Comparative analysis reveals the expansion of mitochondrial DNA control region containing unusually high G-C tandem repeat arrays in <i>Nasonia vitripennis</i> . <i>International Journal of Biological Macromolecules</i> , 2021, 166, 1246-1257.	3.6	9
49	"RETRACTED ARTICLE: <i>Vibrio parahaemolyticus</i> RhsP represents a widespread group of pro-effectors for type VI secretion systems. <i>Nature Communications</i> , 2018, 9, 3899.	5.8	8
50	Homology between DUF784, DUF1278 domains and the plant prolamin superfamily typifies evolutionary changes of disulfide bonding patterns. <i>Cell Cycle</i> , 2009, 8, 3428-3430.	1.3	6
51	Screening for novel hexanucleotide repeat expansions at ALS- and FTD-associated loci. <i>Neurology: Genetics</i> , 2016, 2, e71.	0.9	6
52	Comparative Phylogenomic Analysis Reveals Evolutionary Genomic Changes and Novel Toxin Families in Endophytic <i>Liberibacter</i> Pathogens. <i>Microbiology Spectrum</i> , 2021, 9, e0050921.	1.2	6
53	Photoglobin, a distinct family of non-heme binding globins, defines a potential photosensor in prokaryotic signal transduction systems. <i>Computational and Structural Biotechnology Journal</i> , 2022, 20, 261-273.	1.9	4
54	Characterization of multiple nestin isoforms in the goldfish brain. <i>Comparative Biochemistry and Physiology Part D: Genomics and Proteomics</i> , 2016, 19, 8-17.	0.4	2

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55	Draft Genome Assemblies of Two <i>Staphylococcus pseudintermedius</i> Strains Isolated from Canine Skin Biopsy Specimens. <i>Microbiology Resource Announcements</i> , 2020, 9, .	0.3	2
56	Genomic and <i>in vitro</i> pharmacodynamic analysis of rifampicin resistance in multidrug-resistant canine <i>Staphylococcus pseudintermedius</i> isolates. <i>Veterinary Dermatology</i> , 2021, 32, 219.	0.4	2
57	Estrogen Signaling Mechanisms. , 2010, , 273-288.		0