

Ke-Qin Zhang

List of Publications by Year in descending order

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90
papers

2,975
citations

172386

29
h-index

182361

51
g-index

91
all docs

91
docs citations

91
times ranked

2385
citing authors

#	ARTICLE	IF	CITATIONS
1	Genomic and Proteomic Analyses of the Fungus <i>Arthrobotrys oligospora</i> Provide Insights into Nematode-Trap Formation. <i>PLoS Pathogens</i> , 2011, 7, e1002179.	2.1	239
2	Molecular Mechanisms of Nematode-Nematophagous Microbe Interactions: Basis for Biological Control of Plant-Parasitic Nematodes. <i>Annual Review of Phytopathology</i> , 2015, 53, 67-95.	3.5	199
3	Metagenomic insights into communities, functions of endophytes and their associates with infection by root-knot nematode, <i>Meloidogyne incognita</i> , in tomato roots. <i>Scientific Reports</i> , 2015, 5, 17087.	1.6	185
4	Extracellular enzymes and the pathogenesis of nematophagous fungi. <i>Applied Microbiology and Biotechnology</i> , 2007, 75, 21-31.	1.7	148
5	A Trojan horse mechanism of bacterial pathogenesis against nematodes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 16631-16636.	3.3	121
6	Nematicidal enzymes from microorganisms and their applications. <i>Applied Microbiology and Biotechnology</i> , 2013, 97, 7081-7095.	1.7	90
7	<i>Arthrobotrys oligospora</i> : a model organism for understanding the interaction between fungi and nematodes. <i>Mycology</i> , 2011, 2, 59-78.	2.0	89
8	Bacteria can mobilize nematode-trapping fungi to kill nematodes. <i>Nature Communications</i> , 2014, 5, 5776.	5.8	85
9	Fungi–Nematode Interactions: Diversity, Ecology, and Biocontrol Prospects in Agriculture. <i>Journal of Fungi</i> (Basel, Switzerland), 2020, 6, 206.	1.5	80
10	Trapping devices of nematode-trapping fungi: formation, evolution, and genomic perspectives. <i>Biological Reviews</i> , 2017, 92, 357-368.	4.7	79
11	MAP kinase Slt2 orthologs play similar roles in conidiation, trap formation, and pathogenicity in two nematode-trapping fungi. <i>Fungal Genetics and Biology</i> , 2018, 116, 42-50.	0.9	70
12	Two Rab GTPases play different roles in conidiation, trap formation, stress resistance, and virulence in the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 4601-4613.	1.7	67
13	Non-Volatile Metabolites from <i>Trichoderma</i> spp.. <i>Metabolites</i> , 2019, 9, 58.	1.3	64
14	Adiponectin receptor PAQR-2 signaling senses low temperature to promote <i>C. elegans</i> longevity by regulating autophagy. <i>Nature Communications</i> , 2019, 10, 2602.	5.8	61
15	Effect of Volatile Organic Compounds from Bacteria on Nematodes. <i>Chemistry and Biodiversity</i> , 2015, 12, 1415-1421.	1.0	56
16	Crystal structure and mutagenesis analysis of chitinase CrChi1 from the nematophagous fungus <i>Clonostachys rosea</i> in complex with the inhibitor caffeine. <i>Microbiology (United Kingdom)</i> , 2010, 156, 3566-3574.	0.7	50
17	The crystal structures of two cuticle-degrading proteases from nematophagous fungi and their contribution to infection against nematodes. <i>FASEB Journal</i> , 2010, 24, 1391-1400.	0.2	49
18	The APSES family proteins in fungi: Characterizations, evolution and functions. <i>Fungal Genetics and Biology</i> , 2015, 81, 271-280.	0.9	48

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19	Nematicidal activity of <i>Trichoderma</i> spp. and isolation of an active compound. <i>World Journal of Microbiology and Biotechnology</i> , 2010, 26, 2297-2302.	1.7	45
20	<i>Anoxybacillus tengchongensis</i> sp. nov. and <i>Anoxybacillus eryuanensis</i> sp. nov., facultatively anaerobic, alkalitolerant bacteria from hot springs. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2011, 61, 118-122.	0.8	42
21	Comparative Analyses of Mitochondrial Genomes Provide Evolutionary Insights Into Nematode-Trapping Fungi. <i>Frontiers in Microbiology</i> , 2020, 11, 617.	1.5	38
22	The Arf-GAP AoGlo3 regulates conidiation, endocytosis, and pathogenicity in the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Fungal Genetics and Biology</i> , 2020, 138, 103352.	0.9	36
23	Independent Expansion of Zincin Metalloproteinases in Onygenales Fungi May Be Associated with Their Pathogenicity. <i>PLoS ONE</i> , 2014, 9, e90225.	1.1	35
24	Morphology Regulatory Metabolites from <i>Arthrobotrys oligospora</i> . <i>Journal of Natural Products</i> , 2012, 75, 1419-1423.	1.5	34
25	Recent advances in genes involved in secondary metabolite synthesis, hyphal development, energy metabolism and pathogenicity in <i>Fusarium graminearum</i> (teleomorph <i>Gibberella zeae</i>). <i>Biotechnology Advances</i> , 2014, 32, 390-402.	6.0	34
26	AoATG5 plays pleiotropic roles in vegetative growth, cell nucleus development, conidiation, and virulence in the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Science China Life Sciences</i> , 2022, 65, 412-425.	2.3	34
27	A proposed adhesin AoMad1 helps nematode-trapping fungus <i>Arthrobotrys oligospora</i> recognizing host signals for life-style switching. <i>Fungal Genetics and Biology</i> , 2015, 81, 172-181.	0.9	32
28	Octopamine connects nutrient cues to lipid metabolism upon nutrient deprivation. <i>Science Advances</i> , 2016, 2, e1501372.	4.7	32
29	Signal pathways involved in microbe-nematode interactions provide new insights into the biocontrol of plant-parasitic nematodes. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2019, 374, 20180317.	1.8	32
30	Functional analysis of seven regulators of G protein signaling (RGSs) in the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Virulence</i> , 2021, 12, 1825-1840.	1.8	32
31	Pleiotropic roles of Ras GTPases in the nematode-trapping fungus <i>Arthrobotrys oligospora</i> identified through multi-omics analyses. <i>iScience</i> , 2021, 24, 102820.	1.9	32
32	Chitin Synthesis and Degradation in Fungi: Biology and Enzymes. <i>Advances in Experimental Medicine and Biology</i> , 2019, 1142, 153-167.	0.8	30
33	Ric8 acts as a regulator of G-protein signalling required for nematode-trapping lifecycle of <i>Arthrobotrys oligospora</i> . <i>Environmental Microbiology</i> , 2022, 24, 1714-1730.	1.8	30
34	AoBck1 and AoMkk1 Are Necessary to Maintain Cell Wall Integrity, Vegetative Growth, Conidiation, Stress Resistance, and Pathogenicity in the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Frontiers in Microbiology</i> , 2021, 12, 649582.	1.5	29
35	High Trap Formation and Low Metabolite Production by Disruption of the Polyketide Synthase Gene Involved in the Biosynthesis of Arthrosporols from Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 9076-9082.	2.4	28
36	Potent Nematicidal Activity and New Hybrid Metabolite Production by Disruption of a Cytochrome P450 Gene Involved in the Biosynthesis of Morphological Regulatory Arthrosporols in Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2017, 65, 4111-4120.	2.4	28

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37	New Species of <i>Trichoderma</i> Isolated as Endophytes and Saprobes from Southwest China. <i>Journal of Fungi</i> (Basel, Switzerland), 2021, 7, 467.	1.5	28
38	<i>AoPEX1</i> and <i>AoPEX6</i> Are Required for Mycelial Growth, Conidiation, Stress Response, Fatty Acid Utilization, and Trap Formation in <i>Arthrobotrys oligospora</i> . <i>Microbiology Spectrum</i> , 2022, 10, e0027522.	1.2	27
39	Regulatory Mechanism of Trap Formation in the Nematode-Trapping Fungi. <i>Journal of Fungi</i> (Basel,) Tj ETQq1 1 0.784314 rgBT/Overlock 10	1.5	26
40	Four novel antibacterial sesquiterpene-Î±-amino acid quaternary ammonium hybrids from the mycelium of mushroom <i>Stereum hirsutum</i> . <i>FÄ-toterapÄ-Äç</i> , 2018, 128, 213-217.	1.1	25
41	<i>AoSsk1</i> , a Response Regulator Required for Mycelial Growth and Development, Stress Responses, Trap Formation, and the Secondary Metabolism in <i>Arthrobotrys oligospora</i> . <i>Journal of Fungi</i> (Basel,) Tj ETQq1 1 0.784314 rgBT/Overlock 10	1.5	26
42	Integrated Metabolomics and Morphogenesis Reveal Volatile Signaling of the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Applied and Environmental Microbiology</i> , 2018, 84, .	1.4	24
43	Isolation and Characterization of a Novel Endoglucanase from a <i>Bursaphelenchus xylophilus</i> Metagenomic Library. <i>PLoS ONE</i> , 2013, 8, e82437.	1.1	23
44	Sesquiterpenyl Epoxy-Cyclohexenoids and their Signaling Functions in Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2019, 67, 13061-13072.	2.4	22
45	Two New Sesquiterpenes from the Fungus <i>Stereum</i> sp.. <i>Helvetica Chimica Acta</i> , 2010, 93, 1737-1741.	1.0	20
46	The nitrate assimilation pathway is involved in the trap formation of <i>Arthrobotrys oligospora</i> , a nematode-trapping fungus. <i>Fungal Genetics and Biology</i> , 2016, 92, 33-39.	0.9	19
47	New Bioactive Macrocyclic Diterpenoids from <i>Euphorbia helioscopia</i> . <i>Chemistry and Biodiversity</i> , 2017, 14, e1700327.	1.0	19
48	Nematicidal Key Precursors for the Biosynthesis of Morphological Regulatory Arthrosporols in the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2016, 64, 7949-7956.	2.4	16
49	YAP in epithelium senses gut barrier loss to deploy defenses against pathogens. <i>PLoS Pathogens</i> , 2020, 16, e1008766.	2.1	16
50	<i>Aolatg1</i> and <i>Aolatg13</i> Regulate Autophagy and Play Different Roles in Conidiation, Trap Formation, and Pathogenicity in the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Frontiers in Cellular and Infection Microbiology</i> , 2021, 11, 824407.	1.8	15
51	An efficient gene disruption system for the nematophagous fungus <i>Purpureocillium lavendulum</i> . <i>Fungal Biology</i> , 2019, 123, 274-282.	1.1	14
52	The Autophagy-Related Gene <i>Aolatg4</i> Regulates Hyphal Growth, Sporulation, Autophagosome Formation, and Pathogenicity in <i>Arthrobotrys oligospora</i> . <i>Frontiers in Microbiology</i> , 2020, 11, 592524.	1.5	14
53	Selected Mutations Revealed Intermediates and Key Precursors in the Biosynthesis of Polyketide-â€‘Terpenoid Hybrid Sesquiterpenyl Epoxy-cyclohexenoids. <i>Organic Letters</i> , 2017, 19, 3923-3926.	2.4	13
54	A new compound from <i>Stereum insigne</i> CGMCC5.57. <i>Natural Product Research</i> , 2017, 31, 932-937.	1.0	13

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55	Overexpression of the Key Virulence Proteases Bace16 and Bae16 in <i>Bacillus nematocida</i> ; B16 to Improve Its Nematocidal Activity. <i>Journal of Molecular Microbiology and Biotechnology</i> , 2011, 21, 130-137.	1.0	12
56	Cloning and homology modeling of a serine protease gene (PrC) from the nematophagous fungus <i>Clonostachys rosea</i> . <i>Annals of Microbiology</i> , 2011, 61, 511-516.	1.1	10
57	<i>Orbilbia blumenaviensis</i> and its <i>Arthrobotrys</i> anamorph. <i>Mycological Progress</i> , 2012, 11, 255-262.	0.5	10
58	Knockout of the <i>adp</i> gene related with colonization in <i>Bacillus nematocida</i> using customized transcription activator-like effectors nucleases. <i>Microbial Biotechnology</i> , 2015, 8, 681-692.	2.0	10
59	Proteomic changes in <i>Arthrobotrys oligospora</i> conidia in response to benzaldehyde-induced fungistatic stress. <i>Journal of Proteomics</i> , 2019, 192, 358-365.	1.2	10
60	Novel Polyketide-Terpenoid Hybrid Metabolites and Increased Fungal Nematocidal Ability by Disruption of Genes <i>277</i> and <i>279</i> in Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 7870-7879.	2.4	10
61	Phospholipase C (AoPLC2) regulates mycelial development, trap morphogenesis, and pathogenicity of the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Journal of Applied Microbiology</i> , 2022, 132, 2144-2156.	1.4	10
62	Quantitative proteomics revealed partial fungistatic mechanism of ammonia against conidial germination of nematode-trapping fungus <i>Arthrobotrys oligospora</i> ATCC24927. <i>International Journal of Biochemistry and Cell Biology</i> , 2018, 98, 104-112.	1.2	9
63	Novel Polyketide-Terpenoid Hybrid Metabolites from a Potent Nematicidal <i>Arthrobotrys oligospora</i> Mutant <i>AOL_s00215g278</i> . <i>Journal of Agricultural and Food Chemistry</i> , 2020, 68, 11449-11458.	2.4	9
64	The complete mitochondrial genome of the nematode-trapping fungus <i>Dactylellina haptotyla</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2018, 3, 964-965.	0.2	8
65	Vib-PT, an Aromatic Prenyltransferase Involved in the Biosynthesis of Vibralactone from <i>Stereum vibrans</i> . <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	8
66	Functional Analysis of Two Affinity cAMP Phosphodiesterases in the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> . <i>Pathogens</i> , 2022, 11, 405.	1.2	8
67	Phylogenic analysis of adhesion related genes <i>Mad1</i> revealed a positive selection for the evolution of trapping devices of nematode-trapping fungi. <i>Scientific Reports</i> , 2016, 6, 22609.	1.6	7
68	The lysine acetylome of the nematocidal bacterium <i>Bacillus nematocida</i> and impact of nematode on the acetylome. <i>Journal of Proteomics</i> , 2018, 177, 31-39.	1.2	7
69	Unexpected Biosynthesis of Fluorescein-Like Arthrocolins against Resistant Strains in an Engineered <i>Escherichia coli</i> . <i>Organic Letters</i> , 2019, 21, 6499-6503.	2.4	7
70	Characterization of the complete mitochondrial genome of <i>Drechslerella brochopaga</i> , a fungal species trapping nematodes with constricting rings. <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 858-859.	0.2	7
71	Complete mitochondrial genome and phylogenetic analysis of <i>Orbilbia dorsalia</i> , a species producing mature sexual structures on culture. <i>Mitochondrial DNA Part B: Resources</i> , 2019, 4, 573-574.	0.2	7
72	Polyketide Synthase-Terpenoid Synthase Hybrid Pathway Regulation of Trap Formation through Ammonia Metabolism Controls Soil Colonization of Predominant Nematode-Trapping Fungus. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 4464-4479.	2.4	7

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73	Genetic Diversity and Azole Resistance Among Natural <i>Aspergillus fumigatus</i> Populations in Yunnan, China. <i>Microbial Ecology</i> , 2022, 83, 869-885.	1.4	7
74	Chemical Constituents of the Fungus <i>Veronea</i> sp.. <i>Chemistry of Natural Compounds</i> , 2015, 51, 270-272.	0.2	6
75	Evidence for Inbreeding and Genetic Differentiation among Geographic Populations of the Saprophytic Mushroom <i>Trogia venenata</i> from Southwestern China. <i>PLoS ONE</i> , 2016, 11, e0149507.	1.1	6
76	<i>Orbilia tianmushanensis</i> sp. nov., a new member of the <i>O. luteorubella</i> group with an unusual asexual morph. <i>Journal of Microbiology</i> , 2016, 54, 9-13.	1.3	6
77	The complete mitochondrial genomes of the nematode-trapping fungus <i>Arthrobotrys oligospora</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2018, 3, 966-967.	0.2	6
78	Two CRISPR/Cas9 Systems Developed in <i>Thermomyces dupontii</i> and Characterization of Key Gene Functions in Thermolide Biosynthesis and Fungal Adaptation. <i>Applied and Environmental Microbiology</i> , 2020, 86, .	1.4	6
79	Morphological and molecular characterization of <i>Orbilia pseudopolybrocha</i> and <i>O. tonghaiensis</i> , two new species of Orbiliaceae from China. <i>International Journal of Systematic and Evolutionary Microbiology</i> , 2020, 70, 2664-2676.	0.8	6
80	Two new asexual genera and six new asexual species in the family Microthyriaceae (Dothideomycetes). <i>Trends in Microbiology</i> , 2021, 29, 101637.	0.8	6
81	Metabolites from Two Dominant Thermophilic Fungal Species <i>Thermomyces lanuginosus</i> and <i>Scytalidium thermophilum</i> . <i>Chemistry and Biodiversity</i> , 2020, 17, e2000137.	1.0	5
82	Survival and infectivity of second-stage root-knot nematode <i>Meloidogyne incognita</i> juveniles depend on lysosome-mediated lipolysis. <i>Journal of Biological Chemistry</i> , 2022, 298, 101637.	1.6	5
83	Characterization of the complete mitochondrial genome of the nematophagous fungus <i>Purpureocillium lavenderum</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2021, 6, 33-35.	0.2	3
84	TOR functions as a molecular switch connecting an iron cue with host innate defense against bacterial infection. <i>PLoS Genetics</i> , 2021, 17, e1009383.	1.5	3
85	Acetylation of Sesquiterpenyl Epoxy-Cyclohexenoids Regulates Fungal Growth, Stress Resistance, Endocytosis, and Pathogenicity of Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> via Metabolism and Transcription. <i>Journal of Agricultural and Food Chemistry</i> , 2022, 70, 6145-6155.	2.4	3
86	From taxonomy and industry to genetics: Fungal Biology in China. <i>Fungal Genetics and Biology</i> , 2015, 81, 110-112.	0.9	2
87	The complete mitochondrial genome of the edible Basidiomycete mushroom <i>Phlebotriosporium portentosum</i> . <i>Mitochondrial DNA Part B: Resources</i> , 2017, 2, 696-697.	0.2	2
88	Historical Differentiation and Recent Hybridization in Natural Populations of the Nematode-Trapping Fungus <i>Arthrobotrys oligospora</i> in China. <i>Microorganisms</i> , 2021, 9, 1919.	1.6	2
89	Two new aromadendrane sesquiterpenes from <i>Verticillium psalliotae</i> . <i>Natural Product Research</i> , 2019, 33, 1257-1261.	1.0	1
90	A New Sesquiterpene from <i>Stereum</i> sp. YMF1.04734. <i>Chemistry of Natural Compounds</i> , 2019, 55, 669-670.	0.2	1