Jiguo Qiu

List of Publications by Year in descending order

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Version: 2024-02-01

89 papers	1,381 citations	331259 21 h-index	454577 30 g-index
92 all docs	92 docs citations	92 times ranked	1189 citing authors

#	Article	IF	Citations
1	Functional Characterization of a Novel Amidase Involved in Biotransformation of Triclocarban and its Dehalogenated Congeners in Ochrobactrum sp. TCC-2. Environmental Science & Technology, 2017, 51, 291-300.	4.6	79
2	Functional Identification of Two Novel Genes from Pseudomonas sp. Strain HZN6 Involved in the Catabolism of Nicotine. Applied and Environmental Microbiology, 2012, 78, 2154-2160.	1.4	49
3	Co-exposure of silver nanoparticles and chiral herbicide imazethapyr to Arabidopsis thaliana: Enantioselective effects. Chemosphere, 2016, 145, 207-214.	4.2	47
4	Isolation, transposon mutagenesis, and characterization of the novel nicotine-degrading strain Shinella sp. HZN7. Applied Microbiology and Biotechnology, 2014, 98, 2625-2636.	1.7	45
5	Isolation and characterization of three Sphingobium sp. strains capable of degrading isoproturon and cloning of the catechol 1,2-dioxygenase gene from these strains. World Journal of Microbiology and Biotechnology, 2009, 25, 259-268.	1.7	43
6	Hydrolytic Dechlorination of Chlorothalonil by Ochrobactrum sp. CTN-11 Isolated from a Chlorothalonil-Contaminated Soil. Current Microbiology, 2010, 61, 226-233.	1.0	39
7	Cloning and expression of the carbaryl hydrolase gene mcbA and the identification of a key amino acid necessary for carbaryl hydrolysis. Journal of Hazardous Materials, 2018, 344, 1126-1135.	6.5	36
8	An Amidase Gene, ipaH , Is Responsible for the Initial Step in the Iprodione Degradation Pathway of Paenarthrobacter sp. Strain YJN-5. Applied and Environmental Microbiology, 2018, 84, .	1.4	34
9	Hydrolase CehA and Monooxygenase CfdC Are Responsible for Carbofuran Degradation in Sphingomonas sp. Strain CDS-1. Applied and Environmental Microbiology, 2018, 84, .	1.4	32
10	Cloning of a Novel Nicotine Oxidase Gene from Pseudomonas sp. Strain HZN6 Whose Product Nonenantioselectively Degrades Nicotine to Pseudooxynicotine. Applied and Environmental Microbiology, 2013, 79, 2164-2171.	1.4	31
11	Anaerobic biodegradation of acetochlor by acclimated sludge and its anaerobic catabolic pathway. Science of the Total Environment, 2020, 748, 141122.	3.9	31
12	A Novel Degradation Mechanism for Pyridine Derivatives in Alcaligenes faecalis JQ135. Applied and Environmental Microbiology, 2018, 84, .	1.4	30
13	A Novel (S)-6-Hydroxynicotine Oxidase Gene from Shinella sp. Strain HZN7. Applied and Environmental Microbiology, 2014, 80, 5552-5560.	1.4	29
14	A sirA-like gene, sirA2, is essential for 3-succinoyl-pyridine metabolism in the newly isolated nicotine-degrading Pseudomonas sp. HZN6 strain. Applied Microbiology and Biotechnology, 2011, 92, 1023-1032.	1.7	28
15	Biodegradation of Picolinic Acid by a Newly Isolated Bacterium Alcaligenes faecalis Strain JQ135. Current Microbiology, 2017, 74, 508-514.	1.0	28
16	Humidity Control Strategies for Solid-State Fermentation: Capillary Water Supply by Water-Retention Materials and Negative-Pressure Auto-controlled Irrigation. Frontiers in Bioengineering and Biotechnology, 2019, 7, 263.	2.0	27
17	Identification of the key amino acid sites of the carbofuran hydrolase CehA from a newly isolated carbofuran-degrading strain Sphingbium sp. CFD-1. Ecotoxicology and Environmental Safety, 2020, 189, 109938.	2.9	26
18	Enhanced recovery of hexavalent chromium by remodeling extracellular polymeric substances through engineering Agrobacterium tumefaciens F2. Journal of Cleaner Production, 2021, 279, 123829.	4.6	26

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19	Enhanced degradation of dicamba by an anaerobic sludge acclimated from river sediment. Science of the Total Environment, 2021, 777, 145931.	3.9	26
20	The Complete Genome Sequence of the Nicotine-Degrading Bacterium Shinella sp. HZN7. Frontiers in Microbiology, 2016, 7, 1348.	1.5	24
21	Genome Analysis of Carbaryl-Degrading Strain Pseudomonas putida XWY-1. Current Microbiology, 2019, 76, 927-929.	1.0	24
22	Bacterial catabolism of nicotine: Catabolic strains, pathways and modules. Environmental Research, 2020, 183, 109258.	3.7	24
23	Characterization of the novel dimethyl sulfide-degrading bacterium Alcaligenes sp . SY1 and its biochemical degradation pathway. Journal of Hazardous Materials, 2016, 304, 543-552.	6.5	23
24	Isolation and characterization of the cotinine-degrading bacterium Nocardioides sp. Strain JQ2195. Journal of Hazardous Materials, 2018, 353, 158-165.	6.5	22
25	Complete Genome Sequence of Alcaligenes Faecalis Strain JQ135, a Bacterium Capable of Efficiently Degrading Nicotinic Acid. Current Microbiology, 2018, 75, 1551-1554.	1.0	21
26	Stereoselective accumulations of hexachlorocyclohexanes (HCHs) are correlated with Sphingomonas spp. in agricultural soils across China. Environmental Pollution, 2018, 240, 27-33.	3.7	20
27	Biodegradation of beta-cypermethrin by a novelAzoarcus indigensstrain HZ5. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2013, 48, 851-859.	0.7	19
28	Biodegradation of nicotine by a novel strain Pusillimonas. Research in Microbiology, 2015, 166, 67-71.	1.0	19
29	Are Nutrient Stresses Associated with Enantioselectivity of the Chiral Herbicide Imazethapyr in Arabidopsis thaliana?. Journal of Agricultural and Food Chemistry, 2015, 63, 10209-10217.	2.4	19
30	Identification and characterization of a novel carboxylesterase (FpbH) that hydrolyzes aryloxyphenoxypropionate herbicides. Biotechnology Letters, 2017, 39, 553-560.	1.1	18
31	Identification and Characterization of a Novel pic Gene Cluster Responsible for Picolinic Acid Degradation in Alcaligenes faecalis JQ135. Journal of Bacteriology, 2019, 201, .	1.0	18
32	Anaerobic biodegradation and detoxification of chloroacetamide herbicides by a novel Proteiniclasticum sediminis BAD-10T. Environmental Research, 2022, 209, 112859.	3.7	17
33	Enantiomer signature and carbon isotope evidence for the migration and transformation of DDTs in arable soils across China. Scientific Reports, 2016, 6, 38475.	1.6	16
34	A Tetrahydrofolate-Dependent Methyltransferase Catalyzing the Demethylation of Dicamba in Sphingomonas sp. Strain Ndbn-20. Applied and Environmental Microbiology, 2016, 82, 5621-5630.	1.4	16
35	Characterization of a Novel Nicotine Degradation Gene Cluster ndp in Sphingomonas melonis TY and Its Evolutionary Analysis. Frontiers in Microbiology, 2017, 8, 337.	1.5	16
36	Biodegradation of acetochlor by a newly isolatedAchromobactersp. strain D-12. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2013, 48, 960-966.	0.7	15

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37	Characterization and Genome Analysis of a Nicotine and Nicotinic Acid-Degrading Strain Pseudomonas putida JQ581 Isolated from Marine. Marine Drugs, 2017, 15, 156.	2.2	15
38	Conversion of nornicotine to 6-hydroxy-nornicotine and 6-hydroxy-myosmine by Shinella sp. strain HZN7. Applied Microbiology and Biotechnology, 2016, 100, 10019-10029.	1.7	14
39	Degradation of Diphenyl Ether in Sphingobium phenoxybenzoativorans SC_3 Is Initiated by a Novel Ring Cleavage Dioxygenase. Applied and Environmental Microbiology, 2017, 83, .	1.4	14
40	A Novel Aerobic Degradation Pathway for Thiobencarb Is Initiated by the TmoAB Two-Component Flavin Mononucleotide-Dependent Monooxygenase System in Acidovorax sp. Strain T1. Applied and Environmental Microbiology, 2017, 83, .	1.4	14
41	Molecular Mechanism and Genetic Determinants of Buprofezin Degradation. Applied and Environmental Microbiology, 2017, 83, .	1.4	14
42	Biodegradation of Pendimethalin by Paracoccus sp. P13. Current Microbiology, 2018, 75, 1077-1083.	1.0	14
43	Isolation and Characterization of the Pymetrozine-Degrading Strain Pseudomonas sp. BYT-1. Journal of Agricultural and Food Chemistry, 2019, 67, 4170-4176.	2.4	14
44	3,6-Dichlorosalicylate Catabolism Is Initiated by the DsmABC Cytochrome P450 Monooxygenase System in Rhizorhabdus dicambivorans Ndbn-20. Applied and Environmental Microbiology, 2018, 84, .	1.4	13
45	McbG, a LysR Family Transcriptional Regulator, Activates the mcbBCDEF Gene Cluster Involved in the Upstream Pathway of Carbaryl Degradation in Pseudomonas sp. Strain XWY-1. Applied and Environmental Microbiology, 2021, 87, .	1.4	13
46	Sphingobacterium olei sp. nov., isolated from oil-contaminated soil. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 1931-1939.	0.8	13
47	Roles of Two Glutathione-Dependent 3,6-Dichlorogentisate Dehalogenases in Rhizorhabdus dicambivorans Ndbn-20 in the Catabolism of the Herbicide Dicamba. Applied and Environmental Microbiology, 2018, 84, .	1.4	12
48	Substrate preference of carbamate hydrolase CehA reveals its environmental behavior. Journal of Hazardous Materials, 2021, 403, 123677.	6.5	12
49	Carbamate C-N Hydrolase Gene ameH Responsible for the Detoxification Step of Methomyl Degradation in Aminobacter aminovorans Strain MDW-2. Applied and Environmental Microbiology, 2020, 87, .	1.4	11
50	Regulators essential for nicotine degradation in Shinella sp. HZN7. Process Biochemistry, 2015, 50, 1947-1950.	1.8	10
51	Comparative genome analysis reveals the evolution of chloroacetanilide herbicide mineralization in Sphingomonas wittichii DC-6. Archives of Microbiology, 2019, 201, 907-918.	1.0	10
52	Cotinine Hydroxylase CotA Initiates Biodegradation of Wastewater Micropollutant Cotinine in Nocardioides sp. Strain JQ2195. Applied and Environmental Microbiology, 2021, 87, e0092321.	1.4	9
53	Genetic Foundations of Direct Ammonia Oxidation (Dirammox) to N ₂ and MocR-Like Transcriptional Regulator DnfR in Alcaligenes faecalis Strain JQ135. Applied and Environmental Microbiology, 2022, 88, aem0226121.	1.4	9
54	Novel 3,6-Dihydroxypicolinic Acid Decarboxylase-Mediated Picolinic Acid Catabolism in Alcaligenes faecalis JQ135. Journal of Bacteriology, 2019, 201, .	1.0	8

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55	Comparative genomic analysis of iprodioneâ€degrading Paenarthrobacter strains reveals the iprodione catabolic molecular mechanism in Paenarthrobacter sp. strain <scp>YJN</scp>â€. Environmental Microbiology, 2021, 23, 1079-1095.	1.8	8
56	An angular dioxygenase gene cluster responsible for the initial phenazine-1-carboxylic acid degradation step in Rhodococcus sp. WH99 can protect sensitive organisms from toxicity. Science of the Total Environment, 2020, 706, 135726.	3.9	7
57	Applied microbiology and biotechnology uncovering the biosynthetic pathway of polysaccharide-based microbial flocculant in Agrobacterium tumefaciens F2. Applied Microbiology and Biotechnology, 2020, 104, 8479-8488.	1.7	7
58	Characterization of a new heterotrophic nitrification bacterium Pseudomonas sp. strain JQ170 and functional identification of nap gene in nitrite production. Science of the Total Environment, 2022, 806, 150556.	3.9	7
59	Optimization of fed-batch fermentation and direct spray drying in the preparation of microbial inoculant of acetochlor-degrading strain Sphingomonas sp. DC-6. 3 Biotech, 2018, 8, 294.	1.1	6
60	Flavobacterium zaozhuangense sp. nov., a new member of the family Flavobacteriaceae, isolated from metolachlor-contaminated soil. Antonie Van Leeuwenhoek, 2018, 111, 1977-1984.	0.7	6
61	A novel hydrolase <scp>PyzH</scp> catalyses the cleavage of C=N double bond for pymetrozine degradation in Pseudomonas sp. <scp>BYT</scp>â€. Environmental Microbiology, 2021, 23, 3265-3273.	1.8	6
62	Niastella caeni sp. nov., isolated from activated sludge. International Journal of Systematic and Evolutionary Microbiology, 2020, 70, 2261-2268.	0.8	6
63	Paenibacillus shunpengii sp. nov., isolated from farmland soil. International Journal of Systematic and Evolutionary Microbiology, 2018, 68, 211-216.	0.8	6
64	Biodegradation of Quinoline by a Newly Isolated Salt-Tolerating Bacterium Rhodococcus gordoniae Strain JH145. Microorganisms, 2022, 10, 797.	1.6	6
65	PicR as a MarR Family Transcriptional Repressor Multiply Controls the Transcription of Picolinic Acid Degradation Gene Cluster pic in Alcaligenes faecalis JQ135. Applied and Environmental Microbiology, 2022, 88, .	1.4	6
66	Identification and characterization of a new three-component nicotinic acid hydroxylase NahAB1B2fromPusillimonassp. strain T2. Letters in Applied Microbiology, 2018, 66, 321-328.	1.0	5
67	The Properties of 5-Methyltetrahydrofolate Dehydrogenase (MetF1) and Its Role in the Tetrahydrofolate-Dependent Dicamba Demethylation System in Rhizorhabdus dicambivorans Ndbn-20. Journal of Bacteriology, 2019, 201, .	1.0	5
68	Identification and characterization of Nornicotine degrading strain Arthrobacter sp. NOR5. Science of the Total Environment, 2021, 764, 142894.	3.9	5
69	Catabolic characterization of dipicolinic acid in Alcaligenes faecalis strain JQ135. International Biodeterioration and Biodegradation, 2021, 165, 105312.	1.9	5
70	Two LysR Family Transcriptional Regulators, McbH and McbN, Activate the Operons Responsible for the Midstream and Downstream Pathways, Respectively, of Carbaryl Degradation in Pseudomonas sp. Strain XWY-1. Applied and Environmental Microbiology, 2022, 88, AEM0206021.	1.4	5
71	Isolation, identification, and acetochlor-degrading potential of a novelRhodococcussp. MZ-3. Journal of Environmental Science and Health - Part B Pesticides, Food Contaminants, and Agricultural Wastes, 2016, 51, 688-694.	0.7	4
72	Biodegradation of Picolinic Acid by Rhodococcus sp. PA18. Applied Sciences (Switzerland), 2019, 9, 1006.	1.3	4

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73	Roles of the Gentisate 1,2-Dioxygenases DsmD and GtdA in the Catabolism of the Herbicide Dicamba in Rhizorhabdus dicambivorans Ndbn-20. Journal of Agricultural and Food Chemistry, 2020, 68, 9287-9298.	2.4	4
74	Unveiling the CoA mediated salicylate catabolic mechanism in Rhizobium sp. X9. Molecular Microbiology, 2021, 116, 783-793.	1.2	4
75	Complete Genome Sequence of Sphingobium baderi DE-13, an Alkyl-Substituted Aniline-Mineralizing Bacterium. Current Microbiology, 2018, 75, 27-31.	1.0	4
76	Pedobacter puniceum sp. nov. Isolated from Sludge. Current Microbiology, 2020, 77, 4186-4191.	1.0	3
77	Lysobacter gilvus sp. nov., isolated from activated sludge. Archives of Microbiology, 2021, 203, 7-11.	1.0	3
78	Degradation of dimethachlon by a newly isolated bacterium Paenarthrobacter sp. strain JH-1 relieves its toxicity against Chlorella ellipsoidea. Environmental Research, 2022, 208, 112706.	3.7	3
79	The TetR Family Repressor HpaR Negatively Regulates the Catabolism of 5-Hydroxypicolinic Acid in Alcaligenes faecalis JQ135 by Binding to Two Unique DNA Sequences in the Promoter of Hpa Operon. Applied and Environmental Microbiology, 2022, 88, aem0239021.	1.4	3
80	The Novel Amidase PcnH Initiates the Degradation of Phenazine-1-Carboxamide in Sphingomonas histidinilytica DS-9. Applied and Environmental Microbiology, 2022, 88, e0054322.	1.4	3
81	Caenimonas sedimenti sp. nov., Isolated from Sediment of the Wastewater Outlet of an Agricultural Chemical Plant. Current Microbiology, 2020, 77, 3767-3772.	1.0	2
82	Rhodobacter kunshanensis sp. nov., a Novel Bacterium Isolated from Activated Sludge. Current Microbiology, 2021, 78, 3791-3797.	1.0	2
83	The Novel Monooxygenase Gene dipD in the dip Gene Cluster of Alcaligenes faecalis JQ135 Is Essential for the Initial Catabolism of Dipicolinic Acid. Applied and Environmental Microbiology, 2022, 88, .	1.4	2
84	Crenobacter caeni sp. nov. Isolated from Sludge. Current Microbiology, 2020, 77, 4180-4185.	1.0	1
85	Rudanella paleaurantiibacter sp. nov., Isolated from Activated Sludge. Current Microbiology, 2020, 77, 2016-2022.	1.0	1
86	Sinanaerobacter chloroacetimidivorans gen. nov., sp. nov., an obligate anaerobic bacterium isolated from anaerobic sludge. Antonie Van Leeuwenhoek, 2021, 114, 1609-1617.	0.7	1
87	Isolation, Identification and Characteristics of a Fluoroglycofen-ethyl-degrading Bacterium YF1*. Ying Yong Yu Huan Jing Sheng Wu Xue Bao = Chinese Journal of Applied and Environmental Biology, 2010, 2009, 686-691.	0.1	1
88	Pseudaminobacter soli sp. nov., Isolated from Paddy Soil Contaminated with Heavy Metals. Current Microbiology, 2022, 79, 19.	1.0	1
89	Biodegradation of Quinolinic acid by a Newly Isolated Bacterium Alcaligenes faecalis Strain JQ191. FEMS Microbiology Letters, 2022, , .	0.7	1