Lulu Dai

List of Publications by Year
in descending order

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66 papers	1,079 citations	471509 17 h-index	477307 29 g-index
68 all docs	68 docs citations	68 times ranked	852 citing authors

#	Article	IF	Citations
1	Structural characterization of potassium hydroxide liquor lignin and its application in biorefinery. Biomass Conversion and Biorefinery, 2023, 13, 727-737.	4.6	4
2	Functional analysis of small heat shock proteins providing evidence of temperature tolerance in Hyphantria cunea. Journal of Applied Entomology, 2022, 146, 130-143.	1.8	3
3	Identification, expression patterns and RNA interference of Capa peptide receptors in Dendroctonus armandi larvae under cold. Journal of Applied Entomology, 2022, 146, 144-157.	1.8	2
4	Identification and Functional Characterization of Antifreeze Protein and Its Mutants in Dendroctonus armandi (Coleoptera: Curculionidae: Scolytinae) Larvae Under Cold Stress. Environmental Entomology, 2022, 51, 167-181.	1.4	1
5	Transcriptome analyses of the Chinese white pine beetle-fungal symbiont Leptographium qinlingensis under terpene stress or growth on host pine sawdust. Symbiosis, 2022, 86, 17-31.	2.3	10
6	A SPX domainâ€containing phosphate transporter from Rhizophagus irregularis handles phosphate homeostasis at symbiotic interface of arbuscular mycorrhizas. New Phytologist, 2022, 234, 650-671.	7.3	25
7	Cultivation of arbuscular mycorrhizal Broussonetia papyrifera seedlings by planting the mycorrhizal nurse plant downwards. Mycorrhiza, 2022, 32, 203-212.	2.8	8
8	Transcriptional regulation of metal metabolism- and nutrient absorption-related genes in Eucalyptus grandis by arbuscular mycorrhizal fungi at different zinc concentrations. BMC Plant Biology, 2022, 22, 76.	3.6	9
9	Molecular Mechanism of Overcoming Host Resistance by the Target of Rapamycin Gene in Leptographium qinlingensis. Microorganisms, 2022, 10, 503.	3.6	2
10	Mechanisms of Strain-Induced Interfacial Strengthening of Wet-Spun Filaments. ACS Applied Materials & Interfaces, 2022, 14, 16809-16819.	8.0	5
11	Functional Characterization of Allatostatin C (PISCF/AST) and Juvenile Hormone Acid O-Methyltransferase in Dendroctonus armandi. International Journal of Molecular Sciences, 2022, 23, 2749.	4.1	1
12	Roles of KrÃ¼ppel Homolog 1 and Broad-Complex in the Development of Dendroctonus armandi (Coleoptera: Scolytinae). Frontiers in Physiology, 2022, 13, 865442.	2.8	2
13	Phylogeny of Leptographium qinlingensis cytochrome P450 genes and transcription levels of six CYPs in response to different nutrition media or terpenoids. Archives of Microbiology, 2022, 204, 16.	2.2	5
14	Comparative Transcriptome Analysis Reveals Molecular Insights in Overwintering Monochamus alternatus (Coleoptera: Cerambycidae). Journal of Insect Science, 2022, 22, .	1.5	3
15	Arbuscular mycorrhizal fungal colonization improves growth, photosynthesis, and ROS regulation of split-root poplar under drought stress. Acta Physiologiae Plantarum, 2022, 44, 1.	2.1	9
16	The cytochrome P450s of Leptographium qinlingensis: Gene characteristics, phylogeny, and expression in response to terpenoids. Fungal Biology, 2022, 126, 395-406.	2.5	2
17	Multiple PHT1 family phosphate transporters are recruited for mycorrhizal symbiosis in Eucalyptus grandis and conserved PHT1;4 is a requirement for the arbuscular mycorrhizal symbiosis. Tree Physiology, 2022, , .	3.1	4
18	Molecular characterization and expression of two enzymes from Dendroctonus armandi, with phloem feeding and juvenile hormone. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2021, 252, 110537.	1.6	0

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19	Isolation and expression of five genes in the mevalonate pathway of the Chinese white pine beetle, Dendroctonus armandi (Curculionidae: Scolytinae). Archives of Insect Biochemistry and Physiology, 2021, 106, e21760.	1.5	3
20	Nutrient Uptake and Distribution in Mycorrhizal Cuttings of Populusâ€‰Ã—â€‰canadensis â€˜Nevaâ€™ Under Drought Stress. Journal of Soil Science and Plant Nutrition, 2021, 21, 2310-2324.	3.4	9
21	Genome-Wide Analysis of Nutrient Signaling Pathways Conserved in Arbuscular Mycorrhizal Fungi. Microorganisms, 2021, 9, 1557.	3.6	9
22	Woodâ€Inspired Binder Enabled Vertical 3D Printing of gâ€C₃N₄/CNT Arrays for Highly Efficient Photoelectrochemical Hydrogen Evolution. Advanced Functional Materials, 2021, 31, 2105045.	14.9	34
23	Bioinspired manufacturing of oriented polysaccharides scaffolds for strong, optical haze and anti-UV/bacterial membranes. Carbohydrate Polymers, 2021, 270, 118328.	10.2	12
24	Phosphorus Starvation- and Zinc Excess-Induced Astragalus sinicus AsZIP2 Zinc Transporter Is Suppressed by Arbuscular Mycorrhizal Symbiosis. Journal of Fungi (Basel, Switzerland), 2021, 7, 892.	3.5	1
25	Recent advances in understanding the effects of lignin structural characteristics on enzymatic hydrolysis. Biotechnology for Biofuels, 2021, 14, 205.	6.2	94
26	Cross-Talks Between Macro- and Micronutrient Uptake and Signaling in Plants. Frontiers in Plant Science, 2021, 12, 663477.	3.6	53
27	Expression Levels of Detoxification Enzyme Genes from Dendroctonus armandi (Coleoptera:) Tj ETQq1 1 0.784314 rgBT /Overlock 10	2.2	11
28	Sensor Deployment Strategy and Traffic Demand Estimation with Multisource Data. Sustainability, 2021, 13, 13057.	3.2	3
29	Ovary Structure and Oogenesis of Trypophloeus klimeschi (Coleoptera: Curculionidae: Scolytinae). Insects, 2021, 12, 1099.	2.2	1
30	Presence and roles of myrtenol, myrtanol and myrtenal in Dendroctonus armandi (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30 2020, 76, 188-197.	3.4	8
31	Structural features and antioxidant behavior of lignins successively extracted from ginkgo shells (Ginkgo biloba L). International Journal of Biological Macromolecules, 2020, 163, 694-701.	7.5	16
32	Isolation, Expression Profiling, and Regulation via Host Allelochemicals of 16 Glutathione S-Transferases in the Chinese White Pine Beetle, Dendroctonus armandi. Frontiers in Physiology, 2020, 11, 546592.	2.8	8
33	Effects of cold stress on metabolic regulation in the overwintering larvae of the Chinese white pine beetle, Dendroctonus armandi. Entomologia Experimentalis Et Applicata, 2020, 168, 836-850.	1.4	2
34	Gender-related responses of dioecious plant Populus cathayana to AMF, drought and planting pattern. Scientific Reports, 2020, 10, 11530.	3.3	9
35	Effect of prehydrolysis on pulping and bleaching of Acacia auriculiformis A. Cunn. ex Benth.. Biomass Conversion and Biorefinery, 2020, , 1.	4.6	2
36	Comparison of enzymatic saccharification and lignin structure of masson pine and poplar pretreated by p-Toluenesulfonic acid. International Journal of Biological Macromolecules, 2020, 151, 861-869.	7.5	18

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37	The auxinâ€inducible phosphate transporter AsPT5 mediates phosphate transport and is indispensable for arbuscule formation in Chinese milk vetch at moderately high phosphate supply. Environmental Microbiology, 2020, 22, 2053-2079.	3.8	11
38	VBAâ€“AMF: A VBA Program Based on the Magnified Intersections Method for Quantitative Recording of Root Colonization by Arbuscular Mycorrhizal Fungi. Indian Journal of Microbiology, 2020, 60, 374-378.	2.7	8
39	Identification, Expression Patterns and RNA Interference of Aquaporins in Dendroctonus armandi (Coleoptera: Scolytinae) Larvae During Overwintering. Frontiers in Physiology, 2019, 10, 967.	2.8	35
40	Arbuscular Mycorrhizal Fungal Communities Are Influenced by Host Tree Species on the Loess Plateau, Northwest China. Forests, 2019, 10, 930.	2.1	8
41	Interactions Between Phosphorus, Zinc, and Iron Homeostasis in Nonmycorrhizal and Mycorrhizal Plants. Frontiers in Plant Science, 2019, 10, 1172.	3.6	85
42	Factors Influencing the Geographical Distribution of Dendroctonus armandi (Coleoptera:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td (	2.1	5
43	Bioinspired self-assembled films of carboxymethyl celluloseâ€“dopamine/montmorillonite. Journal of Materials Chemistry A, 2019, 7, 14033-14041.	10.3	54
44	Electroantennogram, behavioural responses, and field trapping of Trypophloeus klimeschi (Coleoptera: Curculionidae: Scolytinae) to eight host volatiles. Canadian Entomologist, 2019, 151, 236-250.	0.8	5
45	Funneliformis mosseae Enhances Root Development and Pb Phytostabilization in Robinia pseudoacacia in Pb-Contaminated Soil. Frontiers in Microbiology, 2019, 10, 2591.	3.5	31
46	Isolation of CarE genes from the Chinese white pine beetle Dendroctonus armandi (Curculionidae: Scolytinae) and their response to host chemical defense. Pest Management Science, 2019, 75, 986-997.	3.4	23
47	Identification, Expression Patterns, and Functional Characterization of Chemosensory Proteins in Dendroctonus armandi (Coleoptera: Curculionidae: Scolytinae). Frontiers in Physiology, 2018, 9, 291.	2.8	16
48	Biodiversity and Activity of Gut Fungal Communities across the Life History of Trypophloeus klimeschi (Coleoptera: Curculionidae: Scolytinae). International Journal of Molecular Sciences, 2018, 19, 2010.	4.1	10
49	A Pareto-improving hybrid rationing and pricing policy with multiclass network equilibria. Transportation Planning and Technology, 2018, 41, 211-228.	2.0	2
50	Influence of Rhizoglomus irregulare on nutraceutical quality and regeneration of Lycium barbarum leaves under salt stress. Canadian Journal of Microbiology, 2017, 63, 365-374.	1.7	5
51	Electrophysiological and behavioral responses of Dendroctonus armandi (Coleoptera: Curculionidae:) Tj ETQq1 1 0.784314 rgBT /Ove 2017, 27, 91-99.	1.1	20
52	Community structure of gut bacteria of Dendroctonus armandi (Coleoptera: Curculionidae:) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 T	3.3	10
53	Metabolism and cold tolerance of <scp>C</scp>hinese white pine beetle <scp>D</scp>endroctonus armandi (<scp>C</scp>oleoptera: <scp>C</scp>urculionidae: <scp>S</scp>colytinae) during the overwintering period. Agricultural and Forest Entomology, 2017, 19, 10-22.	1.3	18
54	Characterisation of GST genes from the Chinese white pine beetle Dendroctonus armandi (Curculionidae: Scolytinae) and their response to host chemical defence. Pest Management Science, 2016, 72, 816-827.	3.4	36

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55	Dendroctonus armandi (Curculionidae: Scolytinae) cytochrome P450s display tissue specificity and responses to host terpenoids. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2016, 201, 1-11.	1.6	16
56	The CYP51F1 Gene of Leptographium qinlingensis: Sequence Characteristic, Phylogeny and Transcript Levels. International Journal of Molecular Sciences, 2015, 16, 12014-12034.	4.1	13
57	Isolation and expression of HMG-CoA synthase and HMG-CoA reductase genes in different development stages, tissues and treatments of the Chinese white pine beetle, Dendroctonus armandi (Curculionidae: Scolytinae). Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2015, 187, 62-70.	1.6	9
58	Neofusicoccum parvum causing canker of seedlings of Juglans regia in China. Journal of Forestry Research, 2015, 26, 1019-1024.	3.6	16
59	Cytochrome P450s from the Chinese white pine beetle, Dendroctonus armandi (Curculionidae:) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Biochemistry and Molecular Biology, 2015, 65, 35-46.	2.7	44
60	The Differential Effects of the Blue-Stain Fungus Leptographium qinlingensis on Monoterpenes and Sesquiterpenes in the Stem of Chinese White Pine (Pinus armandi) Saplings. Forests, 2014, 5, 2730-2749.	2.1	13
61	Influence of temperature, pH and metal ions on guaiacol oxidation of purified laccase from Leptographium qinlingensis. World Journal of Microbiology and Biotechnology, 2014, 30, 1285-1290.	3.6	35
62	Changes of monoterpenes in stem of Chinese white pine (Pinus armandi) saplings following treatment with Methyl Jasmonate. Forestry Studies, 2014, 60, 69-81.	0.2	4
63	Differences in the Structure of the Gut Bacteria Communities in Development Stages of the Chinese White Pine Beetle (Dendroctonus armandi). International Journal of Molecular Sciences, 2013, 14, 21006-21020.	4.1	43
64	Toxins from a symbiotic fungus, Leptographium qinlingensis associated with Dendroctonus armandi and their in vitro toxicities to Pinus armandi seedlings. European Journal of Plant Pathology, 2012, 134, 239-247.	1.7	38
65	Laboratory evaluation of flight activity of Dendroctonus armandi (Coleoptera: Curculionidae:) Tj ETQq1 1 0.784314 rgBT /Over	0.8	37
66	Changes in the composition of volatile monoterpenes and sesquiterpenes of Pinus armandi, P. tabulaeformis, and P. bungeana in Northwest China. Chemistry of Natural Compounds, 2006, 42, 534-538.	0.8	41