

Dafeng Hui

List of Publications by Year in descending order

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187
papers

11,481
citations

50276

46
h-index

34986

98
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190
all docs

190
docs citations

190
times ranked

12530
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Acclimatization of soil respiration to warming in a tall grass prairie. <i>Nature</i> , 2001, 413, 622-625. | 27.8 | 1,048 |
| 2 | Rates of litter decomposition in terrestrial ecosystems: global patterns and controlling factors. <i>Journal of Plant Ecology</i> , 2008, 1, 85-93. | 2.3 | 832 |
| 3 | ELEVATED CO ₂ STIMULATES NET ACCUMULATIONS OF CARBON AND NITROGEN IN LAND ECOSYSTEMS: A META-ANALYSIS. <i>Ecology</i> , 2006, 87, 53-63. | 3.2 | 771 |
| 4 | Comprehensive comparison of gap-filling techniques for eddy covariance net carbon fluxes. <i>Agricultural and Forest Meteorology</i> , 2007, 147, 209-232. | 4.8 | 744 |
| 5 | FIRE EFFECTS ON NITROGEN POOLS AND DYNAMICS IN TERRESTRIAL ECOSYSTEMS: A META-ANALYSIS. , 2001, 11, 1349-1365. | | 483 |
| 6 | Soil extracellular enzyme activities, soil carbon and nitrogen storage under nitrogen fertilization: A meta-analysis. <i>Soil Biology and Biochemistry</i> , 2016, 101, 32-43. | 8.8 | 483 |
| 7 | Solid lipid nanoparticles for enhancing vincopetine's oral bioavailability. <i>Journal of Controlled Release</i> , 2006, 114, 53-59. | 9.9 | 328 |
| 8 | Joint control of terrestrial gross primary productivity by plant phenology and physiology. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 2788-2793. | 7.1 | 265 |
| 9 | OAK FOREST CARBON AND WATER SIMULATIONS: MODEL INTERCOMPARISONS AND EVALUATIONS AGAINST INDEPENDENT DATA. <i>Ecological Monographs</i> , 2004, 74, 443-489. | 5.4 | 225 |
| 10 | Direct and indirect effects of experimental warming on ecosystem carbon processes in a tallgrass prairie. <i>Global Biogeochemical Cycles</i> , 2005, 19, n/a-n/a. | 4.9 | 222 |
| 11 | Geographical and interannual variability in biomass partitioning in grassland ecosystems: a synthesis of field data. <i>New Phytologist</i> , 2006, 169, 85-93. | 7.3 | 209 |
| 12 | Soil microbial community and its interaction with soil carbon and nitrogen dynamics following afforestation in central China. <i>Science of the Total Environment</i> , 2016, 541, 230-237. | 8.0 | 208 |
| 13 | Responses of soil carbon sequestration to climate-smart agriculture practices: A meta-analysis. <i>Global Change Biology</i> , 2019, 25, 2591-2606. | 9.5 | 205 |
| 14 | Global pattern of temperature sensitivity of soil heterotrophic respiration (Q_{10}) and its implications for carbon-climate feedback. <i>Journal of Geophysical Research</i> , 2009, 114, . | 3.3 | 201 |
| 15 | Probabilistic inversion of a terrestrial ecosystem model: Analysis of uncertainty in parameter estimation and model prediction. <i>Global Biogeochemical Cycles</i> , 2006, 20, n/a-n/a. | 4.9 | 200 |
| 16 | Response of soil CO ₂ efflux to water manipulation in a tallgrass prairie ecosystem. <i>Plant and Soil</i> , 2002, 240, 213-223. | 3.7 | 199 |
| 17 | Responses of terrestrial ecosystem phosphorus cycling to nitrogen addition: A meta-analysis. <i>Global Ecology and Biogeography</i> , 2017, 26, 713-728. | 5.8 | 196 |
| 18 | Gap-filling missing data in eddy covariance measurements using multiple imputation (MI) for annual estimations. <i>Agricultural and Forest Meteorology</i> , 2004, 121, 93-111. | 4.8 | 146 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Impacts of urbanization on carbon balance in terrestrial ecosystems of the Southern United States. <i>Environmental Pollution</i> , 2012, 164, 89-101. | 7.5 | 137 |
| 20 | Greenhouse gas emissions and crop yield in no-tillage systems: A meta-analysis. <i>Agriculture, Ecosystems and Environment</i> , 2018, 268, 144-153. | 5.3 | 135 |
| 21 | Century-Scale Responses of Ecosystem Carbon Storage and Flux to Multiple Environmental Changes in the Southern United States. <i>Ecosystems</i> , 2012, 15, 674-694. | 3.4 | 130 |
| 22 | Partitioning interannual variability in net ecosystem exchange between climatic variability and functional change. <i>Tree Physiology</i> , 2003, 23, 433-442. | 3.1 | 115 |
| 23 | Carbon stocks and potential carbon storage in the mangrove forests of China. <i>Journal of Environmental Management</i> , 2014, 133, 86-93. | 7.8 | 114 |
| 24 | Electrical conductivity of nutrient solution influenced photosynthesis, quality, and antioxidant enzyme activity of pakchoi (<i>Brassica campestris</i> L. ssp. <i>Chinensis</i>) in a hydroponic system. <i>PLoS ONE</i> , 2018, 13, e0202090. | 2.5 | 103 |
| 25 | A global meta-analysis of soil phosphorus dynamics after afforestation. <i>New Phytologist</i> , 2017, 213, 181-192. | 7.3 | 96 |
| 26 | Shifts of growing season precipitation peaks decrease soil respiration in a semiarid grassland. <i>Global Change Biology</i> , 2018, 24, 1001-1011. | 9.5 | 95 |
| 27 | Convergence in the relationship of CO ₂ and N ₂ O exchanges between soil and atmosphere within terrestrial ecosystems. <i>Global Change Biology</i> , 2008, 14, 1651-1660. | 9.5 | 86 |
| 28 | Phosphorus addition decreases microbial residual contribution to soil organic carbon pool in a tropical coastal forest. <i>Global Change Biology</i> , 2021, 27, 454-466. | 9.5 | 84 |
| 29 | Soil microbial community composition and respiration along an experimental precipitation gradient in a semiarid steppe. <i>Scientific Reports</i> , 2016, 6, 24317. | 3.3 | 82 |
| 30 | Responses of dryland soil respiration and soil carbon pool size to abrupt vs. gradual and individual vs. combined changes in soil temperature, precipitation, and atmospheric [CO ₂]: a simulation analysis. <i>Global Change Biology</i> , 2009, 15, 2274-2294. | 9.5 | 78 |
| 31 | Exogenous glutathione improves high root-zone temperature tolerance by modulating photosynthesis, antioxidant and osmolytes systems in cucumber seedlings. <i>Scientific Reports</i> , 2016, 6, 35424. | 3.3 | 76 |
| 32 | Soil properties rather than climate and ecosystem type control the vertical variations of soil organic carbon, microbial carbon, and microbial quotient. <i>Soil Biology and Biochemistry</i> , 2020, 148, 107905. | 8.8 | 71 |
| 33 | Effects of Soil Moisture on the Temperature Sensitivity of Soil Heterotrophic Respiration: A Laboratory Incubation Study. <i>PLoS ONE</i> , 2014, 9, e92531. | 2.5 | 68 |
| 34 | Straw incorporation influences soil organic carbon sequestration, greenhouse gas emission, and crop yields in a Chinese rice (<i>Oryza sativa</i> L.) wheat (<i>Triticum aestivum</i> L.) cropping system. <i>Soil and Tillage Research</i> , 2019, 195, 104377. | 5.6 | 68 |
| 35 | Responses of soil respiration and its temperature/moisture sensitivity to precipitation in three subtropical forests in southern China. <i>Biogeosciences</i> , 2013, 10, 3963-3982. | 3.3 | 65 |
| 36 | Effects of warming and increased precipitation on net ecosystem productivity: A long-term manipulative experiment in a semiarid grassland. <i>Agricultural and Forest Meteorology</i> , 2017, 232, 359-366. | 4.8 | 65 |

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|----|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 37 | Estimation of long-term basin scale evapotranspiration from streamflow time series. <i>Water Resources Research</i> , 2010, 46, . | 4.2 | 64 |
| 38 | Kinetic parameters of phosphatase: A quantitative synthesis. <i>Soil Biology and Biochemistry</i> , 2013, 65, 105-113. | 8.8 | 61 |
| 39 | Down-regulation of tissue N:P ratios in terrestrial plants by elevated CO ₂ . <i>Ecology</i> , 2015, 96, 3354-3362. | 3.2 | 57 |
| 40 | Canopy radiation- and water-use efficiencies as affected by elevated [CO ₂]. <i>Global Change Biology</i> , 2001, 7, 75-91. | 9.5 | 56 |
| 41 | Evaluation of soil CO ₂ production and transport in Duke Forest using a process-based modeling approach. <i>Global Biogeochemical Cycles</i> , 2004, 18, n/a-n/a. | 4.9 | 55 |
| 42 | Prolonged acid rain facilitates soil organic carbon accumulation in a mature forest in Southern China. <i>Science of the Total Environment</i> , 2016, 544, 94-102. | 8.0 | 55 |
| 43 | Stimulation of ammonia oxidizer and denitrifier abundances by nitrogen loading: Poor predictability for increased soil N ₂ O emission. <i>Global Change Biology</i> , 2022, 28, 2158-2168. | 9.5 | 54 |
| 44 | Plant functional groups regulate soil respiration responses to nitrogen addition and mowing over a decade. <i>Functional Ecology</i> , 2018, 32, 1117-1127. | 3.6 | 52 |
| 45 | Precipitation legacy effects on dryland ecosystem carbon fluxes: direction, magnitude and biogeochemical carryovers. <i>Biogeosciences</i> , 2016, 13, 425-439. | 3.3 | 50 |
| 46 | Uncertainty in allometric exponent estimation: A case study in scaling metabolic rate with body mass. <i>Journal of Theoretical Biology</i> , 2007, 249, 168-177. | 1.7 | 49 |
| 47 | Canopy quantum yield in a mesocosm study. <i>Agricultural and Forest Meteorology</i> , 2000, 100, 35-48. | 4.8 | 48 |
| 48 | Effects of changing precipitation regimes on dryland soil respiration and C pool dynamics at rainfall event, seasonal and interannual scales. <i>Journal of Geophysical Research</i> , 2008, 113, . | 3.3 | 48 |
| 49 | Effects of Precipitation Increase on Soil Respiration: A Three-Year Field Experiment in Subtropical Forests in China. <i>PLoS ONE</i> , 2012, 7, e41493. | 2.5 | 48 |
| 50 | Effects of precipitation changes on aboveground net primary production and soil respiration in a switchgrass field. <i>Agriculture, Ecosystems and Environment</i> , 2017, 248, 29-37. | 5.3 | 48 |
| 51 | Assessing the impacts of tillage and fertilization management on nitrous oxide emissions in a cornfield using the DNDC model. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2016, 121, 337-349. | 3.0 | 45 |
| 52 | Effects of Heat Shock on Photosynthetic Properties, Antioxidant Enzyme Activity, and Downy Mildew of Cucumber (<i>Cucumis sativus</i> L.). <i>PLoS ONE</i> , 2016, 11, e0152429. | 2.5 | 43 |
| 53 | Changing rainfall frequency rather than drought rapidly alters annual soil respiration in a tropical forest. <i>Soil Biology and Biochemistry</i> , 2018, 121, 8-15. | 8.8 | 41 |
| 54 | Interactive effects of temperature and moisture on composition of the soil microbial community. <i>European Journal of Soil Science</i> , 2017, 68, 909-918. | 3.9 | 40 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 55 | Nonlinear responses of soil respiration to precipitation changes in a semiarid temperate steppe. <i>Scientific Reports</i> , 2017, 7, 45782. | 3.3 | 39 |
| 56 | Soil C:N:P stoichiometry in tropical forests on Hainan Island of China: Spatial and vertical variations. <i>Catena</i> , 2021, 201, 105228. | 5.0 | 39 |
| 57 | Influences of biotic and abiotic factors on the relationship between tree productivity and biomass in China. <i>Forest Ecology and Management</i> , 2012, 264, 72-80. | 3.2 | 38 |
| 58 | Proteome Modification in Tomato Plants upon Long-Term Aluminum Treatment. <i>Journal of Proteome Research</i> , 2016, 15, 1670-1684. | 3.7 | 37 |
| 59 | Changes in plant functional traits and their relationships with environmental factors along an urban-rural gradient in Guangzhou, China. <i>Ecological Indicators</i> , 2019, 106, 105558. | 6.3 | 37 |
| 60 | Effects of fly ash application on plant biomass and element accumulations: a meta-analysis. <i>Environmental Pollution</i> , 2019, 250, 137-142. | 7.5 | 36 |
| 61 | Primary Productivity and Water Balance of Grassland Vegetation on Three Soils in a Continuous CO ₂ Gradient: Initial Results from the Lysimeter CO ₂ Gradient Experiment. <i>Ecosystems</i> , 2009, 12, 699-714. | 3.4 | 35 |
| 62 | Convergence of microbial assimilations of soil carbon, nitrogen, phosphorus and sulfur in terrestrial ecosystems. <i>Scientific Reports</i> , 2015, 5, 17445. | 3.3 | 35 |
| 63 | Elevated CO ₂ does not stimulate carbon sink in a semi-arid grassland. <i>Ecology Letters</i> , 2019, 22, 458-468. | 6.4 | 34 |
| 64 | GROSS PRIMARY PRODUCTIVITY IN DUKE FOREST: MODELING SYNTHESIS OF CO ₂ EXPERIMENT AND EDDY FLUX DATA. , 2001, 11, 239-252. | | 33 |
| 65 | Atmospheric deposition and canopy exchange of anions and cations in two plantation forests under acid rain influence. <i>Atmospheric Environment</i> , 2013, 64, 242-250. | 4.1 | 33 |
| 66 | Fine root dynamics responses to nitrogen addition depend on root order, soil layer, and experimental duration in a subtropical forest. <i>Biology and Fertility of Soils</i> , 2019, 55, 723-736. | 4.3 | 32 |
| 67 | Effects of precipitation changes on switchgrass photosynthesis, growth, and biomass: A mesocosm experiment. <i>PLoS ONE</i> , 2018, 13, e0192555. | 2.5 | 31 |
| 68 | Divergent responses of primary production to increasing precipitation variability in global drylands. <i>Global Change Biology</i> , 2021, 27, 5225-5237. | 9.5 | 31 |
| 69 | Recovery in soil carbon stock but reduction in carbon stabilization after 56-year forest restoration in degraded tropical lands. <i>Forest Ecology and Management</i> , 2019, 441, 1-8. | 3.2 | 30 |
| 70 | Mycorrhizal fungi alleviate acidification-induced phosphorus limitation: Evidence from a decade-long field experiment of simulated acid deposition in a tropical forest in south China. <i>Global Change Biology</i> , 2022, 28, 3605-3619. | 9.5 | 30 |
| 71 | Near Isometric Biomass Partitioning in Forest Ecosystems of China. <i>PLoS ONE</i> , 2014, 9, e86550. | 2.5 | 28 |
| 72 | Nitrous oxide emissions from a commercial cornfield (<i>Zea mays</i>) measured using the eddy covariance technique. <i>Atmospheric Chemistry and Physics</i> , 2014, 14, 12839-12854. | 4.9 | 28 |

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|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 73 | Corn Yield and Soil Nitrous Oxide Emission under Different Fertilizer and Soil Management: A Three-Year Field Experiment in Middle Tennessee. <i>PLoS ONE</i> , 2015, 10, e0125406. | 2.5 | 27 |
| 74 | Water-soluble yellow mustard mucilage: A novel ingredient with potent antioxidant properties. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 710-715. | 7.5 | 27 |
| 75 | Integrating Wildfires Propagation Prediction Into Early Warning of Electrical Transmission Line Outages. <i>IEEE Access</i> , 2019, 7, 27586-27603. | 4.2 | 27 |
| 76 | Spatial and Temporal Patterns of Carbon Storage in Forest Ecosystems on Hainan Island, Southern China. <i>PLoS ONE</i> , 2014, 9, e108163. | 2.5 | 26 |
| 77 | Light and competition alter leaf stoichiometry of introduced species and native mangrove species. <i>Science of the Total Environment</i> , 2020, 738, 140301. | 8.0 | 26 |
| 78 | Soil salinity increases the tolerance of excessive sulfur fumigation stress in tomato plants. <i>Environmental and Experimental Botany</i> , 2017, 133, 70-77. | 4.2 | 25 |
| 79 | Bryophyte diversity is related to vascular plant diversity and microhabitat under disturbance in karst caves. <i>Ecological Indicators</i> , 2021, 120, 106947. | 6.3 | 24 |
| 80 | Climatic and edaphic controls over the elevational pattern of microbial necromass in subtropical forests. <i>Catena</i> , 2021, 207, 105707. | 5.0 | 23 |
| 81 | Responses of net ecosystem CO ₂ exchange to nitrogen fertilization in experimentally manipulated grassland ecosystems. <i>Agricultural and Forest Meteorology</i> , 2009, 149, 1956-1963. | 4.8 | 22 |
| 82 | Soil temperature and moisture sensitivities of soil CO ₂ efflux before and after tillage in a wheat field of Loess Plateau, China. <i>Journal of Environmental Sciences</i> , 2011, 23, 79-86. | 6.1 | 22 |
| 83 | Asymmetric responses of plant community structure and composition to precipitation variabilities in a semi-arid steppe. <i>Oecologia</i> , 2019, 191, 697-708. | 2.0 | 22 |
| 84 | Effect of Aluminum Treatment on Proteomes of Radicles of Seeds Derived from Al-Treated Tomato Plants. <i>Proteomes</i> , 2014, 2, 169-190. | 3.5 | 21 |
| 85 | Effects of simulated acid rain on soil respiration and its components in a subtropical mixed conifer and broadleaf forest in southern China. <i>Environmental Sciences: Processes and Impacts</i> , 2016, 18, 246-255. | 3.5 | 21 |
| 86 | Differential effects of warming and nitrogen fertilization on soil respiration and microbial dynamics in switchgrass croplands. <i>GCB Bioenergy</i> , 2018, 10, 565-576. | 5.6 | 21 |
| 87 | Imbalanced plant stoichiometry at contrasting geologic-derived phosphorus sites in subtropics: the role of microelements and plant functional group. <i>Plant and Soil</i> , 2018, 430, 113-125. | 3.7 | 21 |
| 88 | Mulch Treatment Effect on Weed Biomass and Yields of Organic Sweetpotato Cultivars. <i>Agronomy</i> , 2019, 9, 190. | 3.0 | 21 |
| 89 | Growth controls over flowering phenology response to climate change in three temperate steppes along a precipitation gradient. <i>Agricultural and Forest Meteorology</i> , 2019, 274, 51-60. | 4.8 | 21 |
| 90 | Phosphorus rather than nitrogen enhances CO ₂ emissions in tropical forest soils: Evidence from a laboratory incubation study. <i>European Journal of Soil Science</i> , 2020, 71, 495-510. | 3.9 | 21 |

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|-----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 91 | Assessing interactive responses in litter decomposition in mixed species litter. <i>Plant and Soil</i> , 2009, 314, 263-271. | 3.7 | 20 |
| 92 | Dynamics of soil nematode communities in wheat fields under different nitrogen management in Northern China Plain. <i>European Journal of Soil Biology</i> , 2015, 71, 13-20. | 3.2 | 20 |
| 93 | Direct seeding for rice production increased soil erosion and phosphorus runoff losses in subtropical China. <i>Science of the Total Environment</i> , 2019, 695, 133845. | 8.0 | 20 |
| 94 | Responses of switchgrass soil respiration and its components to precipitation gradient in a mesocosm study. <i>Plant and Soil</i> , 2017, 420, 105-117. | 3.7 | 19 |
| 95 | Long-term antagonistic effect of increased precipitation and nitrogen addition on soil respiration in a semiarid steppe. <i>Ecology and Evolution</i> , 2017, 7, 10804-10814. | 1.9 | 19 |
| 96 | Site conditions interact with litter quality to affect home-field advantage and rhizosphere effect of litter decomposition in a subtropical wetland ecosystem. <i>Science of the Total Environment</i> , 2020, 749, 141442. | 8.0 | 19 |
| 97 | Drought-Induced Leaf Proteome Changes in Switchgrass Seedlings. <i>International Journal of Molecular Sciences</i> , 2016, 17, 1251. | 4.1 | 18 |
| 98 | Effects of Grazing, Wind Erosion, and Dust Deposition on Plant Community Composition and Structure in a Temperate Steppe. <i>Ecosystems</i> , 2021, 24, 403-420. | 3.4 | 18 |
| 99 | Increased precipitation and nitrogen addition accelerate the temporal increase in soil respiration during 8-year old field grassland succession. <i>Global Change Biology</i> , 2022, 28, 3944-3959. | 9.5 | 18 |
| 100 | Effects of gradual versus step increases in carbon dioxide on <i>Plantago</i> photosynthesis and growth in a microcosm study. <i>Environmental and Experimental Botany</i> , 2002, 47, 51-66. | 4.2 | 17 |
| 101 | Global relationship of fire occurrence and fire intensity: A test of intermediate fire occurrence-intensity hypothesis. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2017, 122, 1123-1136. | 3.0 | 17 |
| 102 | Rain-induced changes in soil CO ₂ flux and microbial community composition in a tropical forest of China. <i>Scientific Reports</i> , 2017, 7, 5539. | 3.3 | 17 |
| 103 | Plant Feedback Aggravates Soil Organic Carbon Loss Associated With Wind Erosion in Northwest China. <i>Journal of Geophysical Research G: Biogeosciences</i> , 2019, 124, 825-839. | 3.0 | 17 |
| 104 | Adaptive ensemble of classifiers with regularization for imbalanced data classification. <i>Information Fusion</i> , 2021, 69, 81-102. | 19.1 | 17 |
| 105 | Nitrogen Fertilization Elevated Spatial Heterogeneity of Soil Microbial Biomass Carbon and Nitrogen in Switchgrass and Gamagrass Croplands. <i>Scientific Reports</i> , 2018, 8, 1734. | 3.3 | 16 |
| 106 | Plant interactions modulate root litter decomposition and negative plant-soil feedback with an invasive plant. <i>Plant and Soil</i> , 2019, 437, 179-194. | 3.7 | 16 |
| 107 | Measuring uncertainty in estimates of biodiversity loss: The example of biodiversity intactness variance. <i>Biological Conservation</i> , 2008, 141, 1091-1094. | 4.1 | 15 |
| 108 | Responses of seedling performance to altered seasonal precipitation in a secondary tropical forest, southern China. <i>Forest Ecology and Management</i> , 2018, 410, 27-34. | 3.2 | 15 |

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|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 109 | Main and interactive effects of increased precipitation and nitrogen addition on growth, morphology, and nutrition of <i>Cinnamomum burmanni</i> seedlings in a tropical forest. <i>Global Ecology and Conservation</i> , 2019, 20, e00734. | 2.1 | 15 |
| 110 | Plant carbon substrate supply regulated soil nitrogen dynamics in a tallgrass prairie in the Great Plains, USA: results of a clipping and shading experiment. <i>Journal of Plant Ecology</i> , 2011, 4, 228-235. | 2.3 | 14 |
| 111 | Responses of corn physiology and yield to six agricultural practices over three years in middle Tennessee. <i>Scientific Reports</i> , 2016, 6, 27504. | 3.3 | 14 |
| 112 | Are reproductive traits of dominant species associated with specific resource allocation strategies during forest succession in southern China?. <i>Ecological Indicators</i> , 2019, 102, 538-546. | 6.3 | 14 |
| 113 | Asymmetric responses of soil respiration in three temperate steppes along a precipitation gradient in northern China revealed by soil-monolith transplanting experiment. <i>Agricultural and Forest Meteorology</i> , 2020, 294, 108126. | 4.8 | 14 |
| 114 | Nitrogen Uptake by Two Plants in Response to Plant Competition as Regulated by Neighbor Density. <i>Frontiers in Plant Science</i> , 2020, 11, 584370. | 3.6 | 14 |
| 115 | Effects of the Interception of Litterfall by the Understory on Carbon Cycling in Eucalyptus Plantations of South China. <i>PLoS ONE</i> , 2014, 9, e100464. | 2.5 | 14 |
| 116 | Projecting terrestrial carbon sequestration of the southeastern United States in the 21st century. <i>Ecosphere</i> , 2013, 4, 1-18. | 2.2 | 13 |
| 117 | Climate Change and Carbon Sequestration in Forest Ecosystems. , 2017, , 555-594. | | 13 |
| 118 | Weak Effects of Biochar and Nitrogen Fertilization on Switchgrass Photosynthesis, Biomass, and Soil Respiration. <i>Agriculture (Switzerland)</i> , 2018, 8, 143. | 3.1 | 13 |
| 119 | Influences of plant interspecific competition and arbuscular mycorrhizal fungi on nitrogen form preference of an invasive plant. <i>Biogeochemistry</i> , 2019, 145, 295-313. | 3.5 | 13 |
| 120 | Antioxidant and antidiabetic properties of Chinese and Indian bitter melons (<i>Momordica charantia</i> L.). <i>Food Bioscience</i> , 2019, 29, 73-80. | 4.4 | 13 |
| 121 | Plant functional types regulate non-additive responses of soil respiration to 5-year warming and nitrogen addition in a semi-arid grassland. <i>Functional Ecology</i> , 2021, 35, 2593-2603. | 3.6 | 13 |
| 122 | Reduced Lignin Decomposition and Enhanced Soil Organic Carbon Stability by Acid Rain: Evidence from ¹³ C Isotope and ¹³ C NMR Analyses. <i>Forests</i> , 2020, 11, 1191. | 2.1 | 12 |
| 123 | Using Coal Fly Ash Agriculture: Combination of Fly Ash and Poultry Litter as Soil Amendments for Bioenergy Feedstock Production. <i>Coal Combustion and Gasification Products</i> , 2015, 7, 33-39. | 1.0 | 12 |
| 124 | Soil respiration patterns and controls in limestone cedar glades. <i>Plant and Soil</i> , 2015, 389, 157-169. | 3.7 | 11 |
| 125 | Effects of Understory Vegetation and Litter on Plant Nitrogen (N), Phosphorus (P), N:P Ratio and Their Relationships with Growth Rate of Indigenous Seedlings in Subtropical Plantations. <i>PLoS ONE</i> , 2013, 8, e84130. | 2.5 | 11 |
| 126 | Spatial patterns in temperature sensitivity of soil respiration in China: Estimation with inverse modeling. <i>Science in China Series C: Life Sciences</i> , 2009, 52, 982-989. | 1.3 | 10 |

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|-----|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 127 | Using Time Series Segmentation for Deriving Vegetation Phenology Indices from MODIS NDVI Data. , 2010, , . | | 10 |
| 128 | Differential Responses and Controls of Soil CO ₂ and N ₂ O Fluxes to Experimental Warming and Nitrogen Fertilization in a Subalpine Coniferous Spruce (<i>Picea asperata</i> Mast.) Plantation Forest. Forests, 2019, 10, 808. | 2.1 | 10 |
| 129 | Changes in Soil Microbial Biomass, Community Composition, and Enzyme Activities After Half-Century Forest Restoration in Degraded Tropical Lands. Forests, 2019, 10, 1124. | 2.1 | 10 |
| 130 | Soil organic carbon turnover following forest restoration in south China: Evidence from stable carbon isotopes. Forest Ecology and Management, 2020, 462, 117988. | 3.2 | 10 |
| 131 | Precipitation and nitrogen application stimulate soil nitrous oxide emission. Nutrient Cycling in Agroecosystems, 2021, 120, 363-378. | 2.2 | 10 |
| 132 | Acclimation of coastal wetland vegetation to salinization results in the asymmetric response of soil respiration along an experimental precipitation gradient. Agricultural and Forest Meteorology, 2021, 310, 108626. | 4.8 | 10 |
| 133 | Characterizing Rhizodegradation of the Insecticide Bifenthrin in Two Soil Types. Journal of Environmental Protection, 2011, 02, 940-946. | 0.7 | 10 |
| 134 | Increased interannual precipitation variability enhances the carbon sink in a semi-arid grassland. Functional Ecology, 2022, 36, 987-997. | 3.6 | 10 |
| 135 | Emerging weed resistance increases tillage intensity and greenhouse gas emissions in the US corn-soybean cropping system. Nature Food, 2022, 3, 266-274. | 14.0 | 10 |
| 136 | Ecosystem carbon exchange in response to locust outbreaks in a temperate steppe. Oecologia, 2015, 178, 579-590. | 2.0 | 9 |
| 137 | Sensory Evaluation of Organic Sweetpotato Cultivars. International Journal of Vegetable Science, 2017, 23, 536-551. | 1.3 | 9 |
| 138 | One-time nitrogen fertilization shifts switchgrass soil microbiomes within a context of larger spatial and temporal variation. PLoS ONE, 2019, 14, e0211310. | 2.5 | 9 |
| 139 | Asymmetric responses of resource use efficiency to previous-year precipitation in a semi-arid grassland. Functional Ecology, 2021, 35, 807-814. | 3.6 | 9 |
| 140 | Carbon balance under four double-season cropping systems in North China Plain. Plant and Soil, 2017, 421, 319-336. | 3.7 | 8 |
| 141 | Improvements in the Root Morphology, Physiology, and Anatomy of <i>Platycladus orientalis</i> Seedlings from Air-root Pruning. Hortscience: A Publication of the American Society for Horticultural Science, 2018, 53, 1750-1756. | 1.0 | 8 |
| 142 | Effects of Biochar Application on Soil Properties, Plant Biomass Production, and Soil Greenhouse Gas Emissions: A Mini-Review. Agricultural Sciences, 2021, 12, 213-236. | 0.3 | 8 |
| 143 | Nitrogen Fertilization Restructured Spatial Patterns of Soil Organic Carbon and Total Nitrogen in Switchgrass and Gamagrass Croplands in Tennessee USA. Scientific Reports, 2020, 10, 1211. | 3.3 | 7 |
| 144 | Al-induced proteomics changes in tomato plants over-expressing a glyoxalase I gene. Horticulture Research, 2020, 7, 43. | 6.3 | 7 |

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