# Justin P Wright

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 77 papers | 11,280 citations | 71102 41 h-index | 69250 77 g-index |
| 84 all docs | 84 docs citations | 84 times ranked | 15471 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Effects of biodiversity on the functioning of trophic groups and ecosystems. Nature, 2006, 443, 989-992. | 27.8 | 1,516 |
| 2 | Impacts of plant diversity on biomass production increase through time because of species complementarity. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18123-18128. | 7.1 | 1,175 |
| 3 | TRY plant trait database â€“ enhanced coverage and open access. Global Change Biology, 2020, 26, 119-188. | 9.5 | 1,038 |
| 4 | Herbivores and nutrients control grassland plant diversity via light limitation. Nature, 2014, 508, 517-520. | 27.8 | 669 |
| 5 | Disentangling biodiversity effects on ecosystem functioning: deriving solutions to a seemingly insurmountable problem. Ecology Letters, 2003, 6, 567-579. | 6.4 | 570 |
| 6 | Revisiting the <scp>H</scp>oly <scp>G</scp>rail: using plant functional traits to understand ecological processes. Biological Reviews, 2017, 92, 1156-1173. | 10.4 | 557 |
| 7 | An ecosystem engineer, the beaver, increases species richness at the landscape scale. Oecologia, 2002, 132, 96-101. | 2.0 | 500 |
| 8 | Productivity Is a Poor Predictor of Plant Species Richness. Science, 2011, 333, 1750-1753. | 12.6 | 463 |
| 9 | The Concept of Organisms as Ecosystem Engineers Ten Years On: Progress, Limitations, and Challenges. BioScience, 2006, 56, 203. | 4.9 | 445 |
| 10 | Effects of Silver Nanoparticle Exposure on Germination and Early Growth of Eleven Wetland Plants. PLoS ONE, 2012, 7, e47674. | 2.5 | 288 |
| 11 | Low Concentrations of Silver Nanoparticles in Biosolids Cause Adverse Ecosystem Responses under Realistic Field Scenario. PLoS ONE, 2013, 8, e57189. | 2.5 | 284 |
| 12 | Conventional functional classification schemes underestimate the relationship with ecosystem functioning. Ecology Letters, 2006, 9, 111-120. | 6.4 | 236 |
| 13 | Diversity has stronger topâ€down than bottomâ€up effects on decomposition. Ecology, 2009, 90, 1073-1083. | 3.2 | 187 |
| 14 | Transitions from Functionalization to Fragmentation Reactions of Laboratory Secondary Organic Aerosol (SOA) Generated from the OH Oxidation of Alkane Precursors. Environmental Science & Technology, 2012, 46, 5430-5437. | 10.0 | 181 |
| 15 | Dynamic interactions of life and its landscape: feedbacks at the interface of geomorphology and ecology. Earth Surface Processes and Landforms, 2010, 35, 78-101. | 2.5 | 161 |
| 16 | Plant speciesâ€™ origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. Nature Communications, 2015, 6, 7710. | 12.8 | 143 |
| 17 | Boomâ€bust dynamics in biological invasions: towards an improved application of the concept. Ecology Letters, 2017, 20, 1337-1350. | 6.4 | 143 |
| 18 | PREDICTING EFFECTS OF ECOSYSTEM ENGINEERS ON PATCH-SCALE SPECIES RICHNESS FROM PRIMARY PRODUCTIVITY. Ecology, 2004, 85, 2071-2081. | 3.2 | 127 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Patch dynamics in a landscape modified by ecosystem engineers. Oikos, 2004, 105, 336-348. | 2.7 | 122 |
| 20 | Antibiotic-induced changes in the microbiota disrupt redox dynamics in the gut. ELife, 2018, 7, . | 6.0 | 121 |
| 21 | Assessing impacts of ecosystem engineers on community organization: a general approach illustrated by effects of a high-Andean cushion plant. Oikos, 2006, 115, 369-385. | 2.7 | 120 |
| 22 | Does the leaf economic spectrum hold within local species pools across varying environmental conditions?. Functional Ecology, 2012, 26, 1390-1398. | 3.6 | 115 |
| 23 | Microbial nitrogen limitation in the mammalian large intestine. Nature Microbiology, 2018, 3, 1441-1450. | 13.3 | 107 |
| 24 | Predictability of ecosystem engineering effects on species richness across environmental variability and spatial scales. Journal of Ecology, 2006, 94, 815-824. | 4.0 | 106 |
| 25 | Deforesting the riverscape: the effects of wood on fish diversity in a Venezuelan piedmont stream. Biological Conservation, 2004, 120, 439-447. | 4.1 | 105 |
| 26 | Leaf nutrients, not specific leaf area, are consistent indicators of elevated nutrient inputs. Nature Ecology and Evolution, 2019, 3, 400-406. | 7.8 | 97 |
| 27 | Global root traits (GRooT) database. Global Ecology and Biogeography, 2021, 30, 25-37. | 5.8 | 90 |
| 28 | Plant-soil feedbacks: a comparative study on the relative importance of soil feedbacks in the greenhouse versus the field. Oecologia, 2016, 181, 559-569. | 2.0 | 88 |
| 29 | LOCAL VS. LANDSCAPE CONTROLS ON PLANT SPECIES RICHNESS IN BEAVER MEADOWS. Ecology, 2003, 84, 3162-3173. | 3.2 | 81 |
| 30 | Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. Global Change Biology, 2013, 19, 3677-3687. | 9.5 | 70 |
| 31 | Invasive speciesâ€™ leaf traits and dissimilarity from natives shape their impact on nitrogen cycling: a metaâ€analysis. New Phytologist, 2017, 213, 128-139. | 7.3 | 69 |
| 32 | In search of microbial indicator taxa: shifts in stream bacterial communities along an urbanization gradient. Environmental Microbiology, 2019, 21, 3653-3668. | 3.8 | 61 |
| 33 | The putative niche requirements and landscape dynamics of Microstegium vimineum: an invasive Asian grass. Biological Invasions, 2011, 13, 471-483. | 2.4 | 59 |
| 34 | Rare microbial taxa emerge when communities collide: freshwater and marine microbiome responses to experimental mixing. Ecology, 2020, 101, e02956. | 3.2 | 57 |
| 35 | Watershed Urbanization Alters the Composition and Function of Stream Bacterial Communities. PLoS ONE, 2011, 6, e22972. | 2.5 | 57 |
| 36 | Ecosystem engineers maintain a rare species of butterfly and increase plant diversity. Oikos, 2010, 119, 883-890. | 2.7 | 56 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Rapid deforestation of a coastal landscape driven by seaâ€level rise and extreme events. Ecological Applications, 2021, 31, e02339. | 3.8 | 52 |
| 38 | Drivers of secondary succession rates across temperate latitudes of the Eastern USA: climate, soils, and species pools. Oecologia, 2012, 168, 1069-1077. | 2.0 | 51 |
| 39 | Global gradients in intraspecific variation in vegetative and floral traits are partially associated with climate and species richness. Global Ecology and Biogeography, 2020, 29, 992-1007. | 5.8 | 51 |
| 40 | Warming reverses top-down effects of predators on belowground ecosystem function in Arctic tundra. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E7541-E7549. | 7.1 | 49 |
| 41 | Evaluating the effects of land-use change and future climate change on vulnerability of coastal landscapes to saltwater intrusion. Elementa, 2018, 6, . | 3.2 | 45 |
| 42 | The more things change, the more they stay the same? When is trait variability important for stability of ecosystem function in a changing environment. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150272. | 4.0 | 44 |
| 43 | Plant Trait Diversity Buffers Variability in Denitrification Potential over Changes in Season and Soil Conditions. PLoS ONE, 2010, 5, e11618. | 2.5 | 42 |
| 44 | Increased grassland arthropod production with mammalian herbivory and eutrophication: a test of mediation pathways. Ecology, 2017, 98, 3022-3033. | 3.2 | 40 |
| 45 | Spatial heterogeneity in species composition constrains plant community responses to herbivory and fertilisation. Ecology Letters, 2018, 21, 1364-1371. | 6.4 | 38 |
| 46 | Effects of biodiversity on the functioning of ecosystems: a summary of 164 experimental manipulations of species richness. Ecology, 2009, 90, 854-854. | 3.2 | 36 |
| 47 | Linking populations to landscapes: richness scenarios resulting from changes in the dynamics of an ecosystem engineer. Ecology, 2009, 90, 3418-3429. | 3.2 | 34 |
| 48 | Biogeographic synthesis of secondary succession rates in eastern North America. Journal of Biogeography, 2010, 37, 1584-1596. | 3.0 | 34 |
| 49 | Multiple environmental drivers structure plant traits at the community level in a pyrogenic ecosystem. Functional Ecology, 2016, 30, 789-798. | 3.6 | 34 |
| 50 | Belowground Biomass Response to Nutrient Enrichment Depends on Light Limitation Across Globally Distributed Grasslands. Ecosystems, 2019, 22, 1466-1477. | 3.4 | 34 |
| 51 | Joint effects of nutrient addition and enemy exclusion on exotic plant success. Ecology, 2016, 97, 3337-3345. | 3.2 | 32 |
| 52 | Plant community and soil conditions individually affect soil microbial community assembly in experimental mesocosms. Ecology and Evolution, 2018, 8, 1196-1205. | 1.9 | 31 |
| 53 | Different plant traits affect two pathways of riparian nitrogen removal in a restored freshwater wetland. Plant and Soil, 2013, 365, 41-57. | 3.7 | 30 |
| 54 | Pulling apart the urbanization axis: patterns of physiochemical degradation and biological response across stream ecosystems. Freshwater Science, 2018, 37, 653-672. | 1.8 | 24 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Environmental Conditions Influence the Plant Functional Diversity Effect on Potential Denitrification. PLoS ONE, 2011, 6, e16584. | 2.5 | 24 |
| 56 | Effects of fire frequency on litter decomposition as mediated by changes to litter chemistry and soil environmental conditions. PLoS ONE, 2017, 12, e0186292. | 2.5 | 24 |
| 57 | Intraspecific variability improves environmental matching, but does not increase ecological breadth along a wetâ€toâ€dry ecotone. Oikos, 2017, 126, 988-995. | 2.7 | 23 |
| 58 | Temperature accelerates the rate fields become forests. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 4702-4706. | 7.1 | 22 |
| 59 | Impacts of female body size on cannibalism and juvenile abundance in a dominant arctic spider. Journal of Animal Ecology, 2020, 89, 1788-1798. | 2.8 | 19 |
| 60 | Trait space of rare plants in a fireâ€dependent ecosystem. Conservation Biology, 2017, 31, 903-911. | 4.7 | 18 |
| 61 | Succession, regression and loss: does evidence of saltwater exposure explain recent changes in the tree communities of North Carolinaâ€™s Coastal Plain?. Annals of Botany, 2020, 125, 255-264. | 2.9 | 17 |
| 62 | Contributions of microbial activity and ash deposition to post-fire nitrogen availability in a pine savanna. Biogeosciences, 2017, 14, 241-255. | 3.3 | 16 |
| 63 | Impacts of an invasive grass on soil organic matter pools vary across a tree-mycorrhizal gradient. Biogeochemistry, 2019, 144, 149-164. | 3.5 | 16 |
| 64 | Salinity thresholds for understory plants in coastal wetlands. Plant Ecology, 2022, 223, 323-337. | 1.6 | 15 |
| 65 | Annual growth in longleaf (Pinus palustris) and pond pine (P. serotina) in the Sandhills of North Carolina is driven by interactions between fire and climate. Forest Ecology and Management, 2015, 340, 1-8. | 3.2 | 14 |
| 66 | Variation in Plant Response to Herbivory Underscored by Functional Traits. PLoS ONE, 2016, 11, e0166714. | 2.5 | 14 |
| 67 | Speciesâ€™ traits do not converge on optimum values in preferred habitats. Oecologia, 2018, 186, 719-729. | 2.0 | 13 |
| 68 | Nitrogen increases earlyâ€stage and slows lateâ€stage decomposition across diverse grasslands. Journal of Ecology, 2022, 110, 1376-1389. | 4.0 | 12 |
| 69 | Nitrogen uptake and biomass resprouting show contrasting relationships with resource acquisitive and conservative plant traits. Journal of Vegetation Science, 2019, 30, 65-74. | 2.2 | 9 |
| 70 | Urban stream denitrifier communities are linked to lower functional resistance to multiple stressors associated with urbanization. Hydrobiologia, 2014, 726, 13-23. | 2.0 | 8 |
| 71 | Functional trait similarity predicts survival in rare plant reintroductions. Ecological Applications, 2020, 30, e02087. | 3.8 | 8 |
| 72 | Intraspecific trait variability shapes leaf trait response to altered fire regimes. Annals of Botany, 2021, 127, 543-552. | 2.9 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Saltwater intrusion in context: soil factors regulate impacts of salinity on soil carbon cycling. Biogeochemistry, 2022, 157, 215-226. | 3.5 | 8 |
| 74 | Changes in Prescribed Fire Frequency Alter Ecosystem Carbon Dynamics. Ecosystems, 2021, 24, 640-651. | 3.4 | 7 |
| 75 | Site conditions are more important than abundance for explaining plant invasion impacts on soil nitrogen cycling. Ecosphere, 2018, 9, e02454. | 2.2 | 5 |
| 76 | Functional traits of the understory plant community of a pyrogenic longleaf pine forest across environmental gradients. Ecology, 2017, 98, 2225-2225. | 3.2 | 4 |
| 77 | 11 Community responses to environmental change: Results of Lotka-Volterra community theory. Theoretical Ecology Series, 2007, 4, 211-227. | 0.2 | 0 |