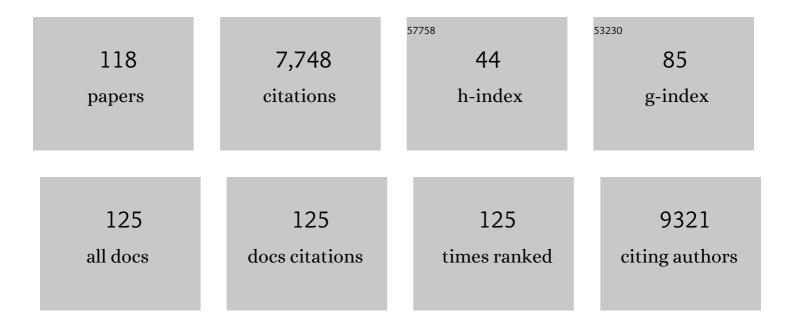
Debra P C Peters

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5192475/publications.pdf Version: 2024-02-01



| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Ecology and Climate of the Earth—The Same Biogeophysical System. Climate, 2022, 10, 25. | 2.8 | 1 |
| 2 | Simulated distribution of <i>Eragrostis lehmanniana</i> (Lehmann lovegrass): Soil–climate interactions complicate predictions. Ecosphere, 2022, 13, . | 2.2 | 2 |
| 3 | Mechanisms and drivers of alternative shrubland states. Ecosphere, 2022, 13, . | 2.2 | 7 |
| 4 | Longâ€ŧerm research catchments to investigate shrub encroachment in the Sonoran and Chihuahuan deserts: Santa Rita and Jornada experimental ranges. Hydrological Processes, 2021, 35, e14031. | 2.6 | 10 |
| 5 | Connectivity: insights from the U.S. Long Term Ecological Research Network. Ecosphere, 2021, 12, e03432. | 2.2 | 4 |
| 6 | Vector Surveillance, Host Species Richness, and Demographic Factors as West Nile Disease Risk Indicators. Viruses, 2021, 13, 934. | 3.3 | 8 |
| 7 | Plant Species Richness in Multiyear Wet and Dry Periods in the Chihuahuan Desert. Climate, 2021, 9, 130. | 2.8 | 8 |
| 8 | Review of Vesicular Stomatitis in the United States with Focus on 2019 and 2020 Outbreaks. Pathogens, 2021, 10, 993. | 2.8 | 9 |
| 9 | Integrating Spatiotemporal Epidemiology, Eco-Phylogenetics, and Distributional Ecology to Assess West Nile Disease Risk in Horses. Viruses, 2021, 13, 1811. | 3.3 | 2 |
| 10 | Evolution and expansion dynamics of a vectorâ€borne virus: 2004–2006 vesicular stomatitis outbreak in the western USA. Ecosphere, 2021, 12, e03793. | 2.2 | 4 |
| 11 | Predicting the Geographic Range of an Invasive Livestock Disease across the Contiguous USA under Current and Future Climate Conditions. Climate, 2021, 9, 159. | 2.8 | 2 |
| 12 | Complex Disease Problems Across Scales: Perspectives on Advancing Disease Ecology with Transâ€Disciplinary Research. Bulletin of the Ecological Society of America, 2020, 101, e01649. | 0.2 | 0 |
| 13 | Big data–model integration and AI for vectorâ€borne disease prediction. Ecosphere, 2020, 11, e03157. | 2.2 | 22 |
| 14 | Woody Plant Encroachment has a Larger Impact than Climate Change on Dryland Water Budgets. Scientific Reports, 2020, 10, 8112. | 3.3 | 31 |
| 15 | Scaling Up Agricultural Research With Artificial Intelligence. IT Professional, 2020, 22, 33-38. | 1.5 | 22 |
| 16 | Harnessing AI to Transform Agriculture and Inform Agricultural Research. IT Professional, 2020, 22, 16-21. | 1.5 | 11 |
| 17 | AI Recommender System With ML for Agricultural Research. IT Professional, 2020, 22, 30-32. | 1.5 | 6 |
| 18 | Full Genomic Sequencing of Vesicular Stomatitis Virus Isolates from the 2004–2006 US Outbreaks Reveals Associations of Viral Genetics to Environmental Variables. Proceedings (mdpi), 2020, 50, . | 0.2 | 0 |

| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Long-Term Ecological Research and Evolving Frameworks of Disturbance Ecology. BioScience, 2020, 70, 141-156. | 4.9 | 37 |
| 20 | Deciphering the past to inform the future: preparing for the next ("really bigâ€) extreme event. Frontiers in Ecology and the Environment, 2020, 18, 401-408. | 4.0 | 14 |
| 21 | Modifying connectivity to promote state change reversal: the importance of geomorphic context and plant–soil feedbacks. Ecology, 2020, 101, e03069. | 3.2 | 21 |
| 22 | Management Strategies for Reducing the Risk of Equines Contracting Vesicular Stomatitis Virus (VSV) in the Western United States. Journal of Equine Veterinary Science, 2020, 90, 103026. | 0.9 | 14 |
| 23 | Constraints on shrub cover and shrub–shrub competition in a U.S. southwest desert. Ecosphere, 2019, 10, e02590. | 2.2 | 18 |
| 24 | Differing climate and landscape effects on regional dryland vegetation responses during wet periods allude to future patterns. Global Change Biology, 2019, 25, 3305-3318. | 9.5 | 5 |
| 25 | The effect of small mammal exclusion on grassland recovery from disturbance in the Chihuahuan Desert. Journal of Arid Environments, 2019, 166, 11-16. | 2.4 | 3 |
| 26 | Localâ€regional similarity in drylands increases during multiyear wet and dry periods and in response to extreme events. Ecosphere, 2019, 10, e02939. | 2.2 | 2 |
| 27 | Contributions of Hydrology to Vesicular Stomatitis Virus Emergence in the Western USA. Ecosystems, 2019, 22, 416-433. | 3.4 | 13 |
| 28 | Regional grassland productivity responses to precipitation during multiyear above―and belowâ€average rainfall periods. Global Change Biology, 2018, 24, 1935-1951. | 9.5 | 71 |
| 29 | Soil water dynamics at 15 locations distributed across a desert landscape: insights from a 27â€yr dataset. Ecosphere, 2018, 9, e02335. | 2.2 | 23 |
| 30 | An Integrated View of Complex Landscapes: A Big Data-Model Integration Approach to Transdisciplinary Science. BioScience, 2018, 68, 653-669. | 4.9 | 38 |
| 31 | Synchronous species responses reveal phenological guilds: implications for management. Ecosphere, 2018, 9, e02395. | 2.2 | 13 |
| 32 | The Grassland–Shrubland Regime Shift in the Southwestern United States: Misconceptions and Their Implications for Management. BioScience, 2018, 68, 678-690. | 4.9 | 81 |
| 33 | A Toolkit for Ecosystem Ecologists in the Time of Big Science. Ecosystems, 2017, 20, 259-266. | 3.4 | 13 |
| 34 | Agroecosystem research with big data and a modified scientific method using machine learning concepts. Ecosphere, 2016, 7, e01493. | 2.2 | 7 |
| 35 | A typology of timeâ€scale mismatches and behavioral interventions to diagnose and solve conservation problems. Conservation Biology, 2016, 30, 42-49. | 4.7 | 31 |
| 36 | Connectivity in dryland landscapes: shifting concepts of spatial interactions. Frontiers in Ecology and the Environment, 2015, 13, 20-27. | 4.0 | 161 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Modifying landscape connectivity by reducing wind driven sediment redistribution, Northern Chihuahuan Desert, USA. Aeolian Research, 2015, 17, 129-137. | 2.7 | 13 |
| 38 | Beyond desertification: new paradigms for dryland landscapes. Frontiers in Ecology and the Environment, 2015, 13, 4-12. | 4.0 | 60 |
| 39 | Enhanced precipitation variability effects on water losses and ecosystem functioning: differential response of arid and mesic regions. Climatic Change, 2015, 131, 213-227. | 3.6 | 62 |
| 40 | Harnessing the power of big data: infusing the scientific method with machine learning to transform ecology. Ecosphere, 2014, 5, 1-15. | 2.2 | 105 |
| 41 | Mechanisms of grass response in grasslands and shrublands during dry or wet periods. Oecologia, 2014, 174, 1323-1334. | 2.0 | 46 |
| 42 | Functional response of U.S. grasslands to the early 21st entury drought. Ecology, 2014, 95, 2121-2133. | 3.2 | 75 |
| 43 | Life form influences survivorship patterns for 109 herbaceous perennials from six semiâ€arid ecosystems. Journal of Vegetation Science, 2014, 25, 947-954. | 2.2 | 21 |
| 44 | Soil animal responses to moisture availability are largely scale, not ecosystem dependent: insight from a crossâ€ s ite study. Global Change Biology, 2014, 20, 2631-2643. | 9.5 | 75 |
| 45 | Taking the pulse of a continent: expanding siteâ€based research infrastructure for regional―to continentalâ€scale ecology. Ecosphere, 2014, 5, 1-23. | 2.2 | 62 |
| 46 | Ecotone. , 2014, , 187-191. | | 0 |
| 47 | Ecosystem resilience despite large-scale altered hydroclimatic conditions. Nature, 2013, 494, 349-352. | 27.8 | 450 |
| 48 | Precipitation legacies in desert grassland primary production occur through previousâ€year tiller density. Ecology, 2013, 94, 435-443. | 3.2 | 169 |
| 49 | Water controls on nitrogen transformations and stocks in an arid ecosystem. Ecosphere, 2013, 4, 1-17. | 2.2 | 67 |
| 50 | Landscape Diversity. , 2013, , 476-487. | | 2 |
| 51 | Extreme precipitation patterns and reductions of terrestrial ecosystem production across biomes. Journal of Geophysical Research G: Biogeosciences, 2013, 118, 148-157. | 3.0 | 74 |
| 52 | Regional signatures of plant response to drought and elevated temperature across a desert ecosystem. Ecology, 2013, 94, 2030-2041. | 3.2 | 52 |
| 53 | How Can Science Be General, Yet Specific? The Conundrum of Rangeland Science in the 21st Century. Rangeland Ecology and Management, 2012, 65, 613-622. | 2.3 | 12 |
| 54 | Legacies of precipitation fluctuations on primary production: theory and data synthesis. Philosophical Transactions of the Royal Society B: Biological Sciences, 2012, 367, 3135-3144. | 4.0 | 471 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 55 | Revolutionary Land Use Change in the 21st Century: Is (Rangeland) Science Relevant?. Rangeland Ecology and Management, 2012, 65, 590-598. | 2.3 | 35 |
| 56 | Landform influences on the resistance of grasslands to shrub encroachment, Northern Chihuahuan Desert, USA. Journal of Maps, 2012, 8, 507-513. | 2.0 | 9 |
| 57 | Nematodes as an indicator of plant–soil interactions associated with desertification. Applied Soil Ecology, 2012, 58, 66-77. | 4.3 | 19 |
| 58 | Longâ€ŧerm experimental loss of foundation species: consequences for dynamics at ecotones across heterogeneous landscapes. Ecosphere, 2012, 3, 1-23. | 2.2 | 38 |
| 59 | Directional climate change and potential reversal of desertification in arid and semiarid ecosystems. Global Change Biology, 2012, 18, 151-163. | 9.5 | 140 |
| 60 | Spatiotemporal Patterns of Production Can Be Used to Detect State Change Across an Arid Landscape. Ecosystems, 2012, 15, 34-47. | 3.4 | 18 |
| 61 | Analysis of abrupt transitions in ecological systems. Ecosphere, 2011, 2, art129. | 2.2 | 239 |
| 62 | Foraging behavior of heritage versus recently introduced herbivores on desert landscapes of the American Southwest. Ecosphere, 2011, 2, art57. | 2.2 | 38 |
| 63 | Cross-system comparisons elucidate disturbance complexities and generalities. Ecosphere, 2011, 2, art81. | 2.2 | 107 |
| 64 | Grassland Simulation Models. Applied Ecology and Environmental Management, 2011, , 175-201. | 0.1 | 0 |
| 65 | Soil-vegetation-climate interactions in arid landscapes: Effects of the North American monsoon on grass recruitment. Journal of Arid Environments, 2010, 74, 618-623. | 2.4 | 37 |
| 66 | Accessible ecology: synthesis of the long, deep, and broad. Trends in Ecology and Evolution, 2010, 25, 592-601. | 8.7 | 77 |
| 67 | IV.5 Boundary Dynamics in Landscapes. , 2009, , 458-463. | | 7 |
| 68 | Do Changes in Connectivity Explain Desertification?. BioScience, 2009, 59, 237-244. | 4.9 | 200 |
| 69 | Accelerate Synthesis in Ecology and Environmental Sciences. BioScience, 2009, 59, 699-701. | 4.9 | 132 |
| 70 | Approaches to Predicting Broad-Scale Regime Shifts Using Changing Pattern-Process Relationships Across Scales. , 2009, , 47-72. | | 8 |
| 71 | Large area mapping of southwestern forest crown cover, canopy height, and biomass using the NASA Multiangle Imaging Spectro-Radiometer. Remote Sensing of Environment, 2008, 112, 2051-2063. | 11.0 | 126 |
| 72 | Longâ€ŧerm data collection at USDA experimental sites for studies of ecohydrology. Ecohydrology, 2008, 1, 377-393. | 2.4 | 36 |

| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 73 | Remote sensing of woody shrub cover in desert grasslands using MISR with a geometric-optical canopy reflectance model. Remote Sensing of Environment, 2008, 112, 19-34. | 11.0 | 63 |
| 74 | Shrub encroachment in North American grasslands: shifts in growth form dominance rapidly alters control of ecosystem carbon inputs. Global Change Biology, 2008, 14, 615-623. | 9.5 | 435 |
| 75 | The changing landscape: ecosystem responses to urbanization and pollution across climatic and societal gradients. Frontiers in Ecology and the Environment, 2008, 6, 264-272. | 4.0 | 597 |
| 76 | Modeling the effects of historical vegetation change on near-surface atmosphere in the northern Chihuahuan Desert. Journal of Arid Environments, 2008, 72, 1897-1910. | 2.4 | 32 |
| 77 | Predicting and understanding ecosystem responses to climate change at continental scales. Frontiers in Ecology and the Environment, 2008, 6, 273-280. | 4.0 | 48 |
| 78 | Living in an increasingly connected world: a framework for continental-scale environmental science. Frontiers in Ecology and the Environment, 2008, 6, 229-237. | 4.0 | 157 |
| 79 | Ecology in a connected world: a vision for a "network of networks― Frontiers in Ecology and the Environment, 2008, 6, 227-227. | 4.0 | 10 |
| 80 | Cascading events in linked ecological and socioeconomic systems. Frontiers in Ecology and the Environment, 2007, 5, 221-224. | 4.0 | 42 |
| 81 | Support vector machines for recognition of semi-arid vegetation types using MISR multi-angle imagery. Remote Sensing of Environment, 2007, 107, 299-311. | 11.0 | 64 |
| 82 | Does shrub invasion indirectly limit grass establishment via seedling herbivory? A test at grasslandâ€shrubland ecotones. Journal of Vegetation Science, 2007, 18, 363-371. | 2.2 | 27 |
| 83 | Ecological services to and from rangelands of the United States. Ecological Economics, 2007, 64, 261-268. | 5.7 | 275 |
| 84 | Cross–Scale Interactions and Changing Pattern–Process Relationships: Consequences for System Dynamics. Ecosystems, 2007, 10, 790-796. | 3.4 | 205 |
| 85 | Spatial Nonlinearities: Cascading Effects in the Earth System. Global Change - the IGBP Series, 2007, , 165-174. | 2.1 | 2 |
| 86 | Spatial Variation in Remnant Grasses After a Grassland-to-Shrubland State Change: Implications for Restoration. Rangeland Ecology and Management, 2006, 59, 343-350. | 2.3 | 16 |
| 87 | Mapping woody plant cover in desert grasslands using canopy reflectance modeling and MISR data. Geophysical Research Letters, 2006, 33, . | 4.0 | 13 |
| 88 | Nonlinear dynamics in arid and semi-arid systems: Interactions among drivers and processes across scales. Journal of Arid Environments, 2006, 65, 196-206. | 2.4 | 86 |
| 89 | Woody plant invasion at a semiâ€arid/arid transition zone: importance of ecosystem type to colonization and patch expansion. Journal of Vegetation Science, 2006, 17, 389-396. | 2.2 | 33 |
| 90 | Mapping shrub abundance in desert grasslands using geometric-optical modeling and multi-angle remote sensing with CHRIS/Proba. Remote Sensing of Environment, 2006, 104, 62-73. | 11.0 | 47 |

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|-----|---|-----|-----------|
| 91 | Spatial Prediction of Invasion Success Across Heterogeneous Landscapes using an Individual-Based Model. Biological Invasions, 2006, 8, 193-200. | 2.4 | 15 |
| 92 | Integrating Patch and Boundary Dynamics to Understand and Predict Biotic Transitions at Multiple Scales. Landscape Ecology, 2006, 21, 19-33. | 4.2 | 87 |
| 93 | Multi-scale factors and long-term responses of Chihuahuan Desert grasses to drought. Landscape Ecology, 2006, 21, 1217-1231. | 4.2 | 55 |
| 94 | Population and clonal level responses of a perennial grass following fire in the northern Chihuahuan Desert. Oecologia, 2006, 150, 29-39. | 2.0 | 19 |
| 95 | Disentangling Complex Landscapes: New Insights into Arid and Semiarid System Dynamics. BioScience, 2006, 56, 491. | 4.9 | 189 |
| 96 | A FRAMEWORK AND METHODS FOR SIMPLIFYING COMPLEX LANDSCAPES TO REDUCE UNCERTAINTY IN PREDICTIONS. , 2006, , 131-146. | | 5 |
| 97 | Woody plant invasion at a semi-arid/arid transition zone: importance of ecosystem type to colonization and patch expansion. Journal of Vegetation Science, 2006, 17, 389. | 2.2 | 5 |
| 98 | Cross-scale interactions, nonlinearities, and forecasting catastrophic events. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 15130-15135. | 7.1 | 393 |
| 99 | Insights to Invasive Species Dynamics from Desertification Studies1. Weed Technology, 2004, 18, 1221-1225. | 0.9 | 5 |
| 100 | Selection of Models of Invasive Species Dynamics ¹ . Weed Technology, 2004, 18, 1236-1239. | 0.9 | 8 |
| 101 | Distribution of plant species at a biome transition zone in New Mexico. Journal of Vegetation Science, 2004, 15, 531-538. | 2.2 | 18 |
| 102 | Subdominant species distribution in microsites around two life forms at a desert grasslandâ€shrubland transition zone. Journal of Vegetation Science, 2004, 15, 615-622. | 2.2 | 13 |
| 103 | Strategies for ecological extrapolation. Oikos, 2004, 106, 627-636. | 2.7 | 71 |
| 104 | Distribution of plant species at a biome transition zone in New Mexico. Journal of Vegetation Science, 2004, 15, 531. | 2.2 | 5 |
| 105 | Title is missing!. Plant Ecology, 2003, 166, 157-166. | 1.6 | 33 |
| 106 | Distribution of Russian Knapweed in Colorado: Climate and Environmental Factors. Journal of Range Management, 2003, 56, 206. | 0.3 | 6 |
| 107 | Long-Term and Large-Scale Perspectives on the Relationship between Biodiversity and Ecosystem Functioning. BioScience, 2003, 53, 89. | 4.9 | 156 |
| 108 | High-resolution images reveal rate and pattern of shrub encroachment over six decades in New Mexico, U.S.A Journal of Arid Environments, 2003, 54, 755-767. | 2.4 | 81 |

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|-----|--|-----|-----------|
| 109 | Using Mechanistic Models to Scale Ecological Processes across Space and Time. BioScience, 2003, 53, 68. | 4.9 | 101 |
| 110 | Recruitment potential of two perennial grasses with different growth forms at a semiaridâ€arid transition zone. American Journal of Botany, 2002, 89, 1616-1623. | 1.7 | 37 |
| 111 | Vegetation and climate characteristics of arid and semi-arid grasslands in North America and their biome transition zone. Journal of Arid Environments, 2002, 51, 55-78. | 2.4 | 34 |
| 112 | Plant species dominance at a grassland–shrubland ecotone: an individual-based gap dynamics model of herbaceous and woody species. Ecological Modelling, 2002, 152, 5-32. | 2.5 | 123 |
| 113 | Modeling invasive weeds in grasslands: the role of allelopathy in Acroptilon repens invasion. Ecological Modelling, 2001, 139, 31-45. | 2.5 | 57 |
| 114 | Intensity of intra- and interspecific competition in coexisting shortgrass species. Journal of Ecology, 2001, 89, 40-47. | 4.0 | 42 |
| 115 | Tree Mortality in Gap Models: Application to Climate Change. Climatic Change, 2001, 51, 509-540. | 3.6 | 151 |
| 116 | Response of Individual Bouteloua gracilis (Gramineae) Plants and Tillers to Small Disturbances. American Midland Naturalist, 2001, 145, 147-158. | 0.4 | 8 |
| 117 | Climatic variation and simulated patterns in seedling establishment of two dominant grasses at a semi-arid-arid grassland ecotone. Journal of Vegetation Science, 2000, 11, 493-504. | 2.2 | 61 |
| 118 | The Western United States Rangelands: A Major Resource. Assa, Cssa and Sssa, 0, , 75-93. | 0.6 | 18 |