

# T Michael Anderson

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

62  
papers

4,190  
citations

28  
h-index

62  
g-index

62  
ext. papers

5,029  
ext. citations

10.6  
avg, IF

5.07  
L-index

| #  | Paper   | IF   | Citations |
|----|---|------|-----------|
| 62 | Savannas are vital but overlooked carbon sinks.. <i>Science</i> , <b>2022</b> , 375, 392  | 33.3 | 2         |
| 61 | Fire, grazers, and browsers interact with grass competition to determine tree establishment in an African savanna.. <i>Ecology</i> , <b>2022</b> , e3715  | 4.6  | 1         |
| 60 | Soil nutrients and precipitation are major drivers of global patterns of grass leaf silicification. <i>Ecology</i> , <b>2020</b> , 101, e03006  | 4.6  | 19        |
| 59 | Spatial transitions in tree cover are associated with soil hydrology, but not with grass biomass, fire frequency, or herbivore biomass in Serengeti savannahs. <i>Journal of Ecology</i> , <b>2020</b> , 108, 586-597 | 6    | 8         |
| 58 | Mixed-species groups of Serengeti grazers: a test of the stress gradient hypothesis. <i>Ecology</i> , <b>2020</b> , 101, e03163   | 4.6  | 7         |
| 57 | The role of microsite sunlight environment on growth, architecture, and resource allocation in dominant Acacia tree seedlings, in Serengeti, East Africa. <i>Plant Ecology</i> , <b>2020</b> , 221, 1187-1199         | 1.7  | 2         |
| 56 | The burning question: does fire affect habitat selection and forage preference of the black rhinoceros <i>Diceros bicornis</i> in East African savannahs?. <i>Oryx</i> , <b>2020</b> , 54, 234-243                    | 1.5  | 7         |
| 55 | The <code>plantspecr</code> package: A tool for spectral analysis of plant stoichiometry. <i>Methods in Ecology and Evolution</i> , <b>2019</b> , 10, 673-679   | 7.7  | 1         |
| 54 | Grass competition overwhelms effects of herbivores and precipitation on early tree establishment in Serengeti. <i>Journal of Ecology</i> , <b>2019</b> , 107, 216-228   | 6    | 25        |
| 53 | Anthropogenic modifications to fire regimes in the wider Serengeti-Mara ecosystem. <i>Global Change Biology</i> , <b>2019</b> , 25, 3406-3423   | 11.4 | 21        |
| 52 | Comment on "The global tree restoration potential". <i>Science</i> , <b>2019</b> , 366,   | 33.3 | 109       |
| 51 | Pyrodiversity interacts with rainfall to increase bird and mammal richness in African savannas. <i>Ecology Letters</i> , <b>2018</b> , 21, 557-567  | 10   | 35        |
| 50 | Herbivory and eutrophication mediate grassland plant nutrient responses across a global climatic gradient. <i>Ecology</i> , <b>2018</b> , 99, 822-831   | 4.6  | 25        |
| 49 | Continent-level drivers of African pyrodiversity. <i>Ecography</i> , <b>2018</b> , 41, 889-899  | 6.5  | 18        |
| 48 | Identifying drivers of spatial variation in occupancy with limited replication camera trap data. <i>Ecology</i> , <b>2018</b> , 99, 2152-2158   | 4.6  | 5         |
| 47 | Change in dominance determines herbivore effects on plant biodiversity. <i>Nature Ecology and Evolution</i> , <b>2018</b> , 2, 1925-1932  | 12.3 | 77        |
| 46 | Ungulate grazing drives higher ramet turnover in sodium-adapted Serengeti grasses. <i>Journal of Vegetation Science</i> , <b>2017</b> , 28, 815-823   | 3.1  | 9         |

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| 45 | Comment on "The extent of forest in dryland biomes". <i>Science</i> , <b>2017</b> , 358,   | 33.3 | 31  |
| 44 | Seed production, infestation, and viability in <i>Acacia tortilis</i> (synonym: <i>Vachellia tortilis</i> ) and <i>Acacia robusta</i> (synonym: <i>Vachellia robusta</i> ) across the Serengeti rainfall gradient. <i>Plant Ecology</i> , <b>2017</b> , 218, 909-922 | 1.7  | 5   |
| 43 | Variation in the soil silicon landscape explains plant silica accumulation across environmental gradients in Serengeti. <i>Plant and Soil</i> , <b>2017</b> , 410, 217-229   | 4.2  | 23  |
| 42 | The priority of prediction in ecological understanding. <i>Oikos</i> , <b>2017</b> , 126, 1-7  | 4    | 112 |
| 41 | Comment on "Worldwide evidence of a unimodal relationship between productivity and plant species richness". <i>Science</i> , <b>2016</b> , 351, 457  | 33.3 | 15  |
| 40 | Integrative modelling reveals mechanisms linking productivity and plant species richness. <i>Nature</i> , <b>2016</b> , 529, 390-3   | 50.4 | 389 |
| 39 | Elephant damage, not fire or rainfall, explains mortality of overstorey trees in Serengeti. <i>Journal of Ecology</i> , <b>2016</b> , 104, 409-418   | 6    | 40  |
| 38 | Leaf thickness controls variation in leaf mass per area (LMA) among grazing-adapted grasses in Serengeti. <i>Oecologia</i> , <b>2016</b> , 181, 1035-40  | 2.9  | 21  |
| 37 | The spatial distribution of African savannah herbivores: species associations and habitat occupancy in a landscape context. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , <b>2016</b> , 371,                                       | 5.8  | 39  |
| 36 | Plant species' origin predicts dominance and response to nutrient enrichment and herbivores in global grasslands. <i>Nature Communications</i> , <b>2015</b> , 6, 7710   | 17.4 | 94  |
| 35 | Biogeographically distinct controls on C3 and C4 grass distributions: merging community and physiological ecology. <i>Global Ecology and Biogeography</i> , <b>2015</b> , 24, 304-313  | 6.1  | 22  |
| 34 | Compositional decoupling of savanna canopy and understory tree communities in Serengeti. <i>Journal of Vegetation Science</i> , <b>2015</b> , 26, 385-394  | 3.1  | 14  |
| 33 | Savanna vegetation-fire-climate relationships differ among continents. <i>Science</i> , <b>2014</b> , 343, 548-52  | 33.3 | 392 |
| 32 | Herbivores and nutrients control grassland plant diversity via light limitation. <i>Nature</i> , <b>2014</b> , 508, 517-20   | 50.4 | 473 |
| 31 | The effect of fire on habitat selection of mammalian herbivores: the role of body size and vegetation characteristics. <i>Journal of Animal Ecology</i> , <b>2014</b> , 83, 1196-205   | 4.7  | 49  |
| 30 | Endozoochorous seed dispersal and germination strategies of Serengeti plants. <i>Journal of Vegetation Science</i> , <b>2014</b> , 25, 636-647   | 3.1  | 19  |
| 29 | Precipitation, fire and demographic bottleneck dynamics in Serengeti tree populations. <i>Landscape Ecology</i> , <b>2014</b> , 29, 1613-1623  | 4.3  | 16  |
| 28 | Using short-term MODIS time-series to quantify tree cover in a highly heterogeneous African savanna. <i>International Journal of Remote Sensing</i> , <b>2013</b> , 34, 6865-6882  | 3.1  | 15  |

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| 27 | Predicting invasion in grassland ecosystems: is exotic dominance the real embarrassment of richness?. <i>Global Change Biology</i> , <b>2013</b> , 19, 3677-87                               | 11.4 | 55  |
| 26 | Distinct Physiological Responses Underlie Defoliation Tolerance in African Lawn and Bunch Grasses. <i>International Journal of Plant Sciences</i> , <b>2013</b> , 174, 769-778               | 2.6  | 21  |
| 25 | Responses of African Grasses in the Genus <i>Sporobolus</i> to Defoliation and Sodium Stress: Tradeoffs, Cross-Tolerance, or Independent Responses?. <i>Plants</i> , <b>2013</b> , 2, 712-25 | 4.5  | 2   |
| 24 | Soil CO <sub>2</sub> Emissions Associated with Termitaria in Tropical Savanna: Evidence for Hot-Spot Compensation. <i>Ecosystems</i> , <b>2012</b> , 15, 1147-1157                           | 3.9  | 8   |
| 23 | Seagrass Sediment Feedback: An Exploration Using a Non-recursive Structural Equation Model. <i>Ecosystems</i> , <b>2012</b> , 15, 1380-1393  | 3.9  | 44  |
| 22 | Body size and the division of niche space: food and predation differentially shape the distribution of Serengeti grazers. <i>Journal of Animal Ecology</i> , <b>2012</b> , 81, 201-13        | 4.7  | 78  |
| 21 | Seed germination cues and the importance of the soil seed bank across an environmental gradient in the Serengeti. <i>Oikos</i> , <b>2012</b> , 121, 306-312                                  | 4    | 20  |
| 20 | Response to Comments on "Productivity Is a Poor Predictor of Plant Species Richness". <i>Science</i> , <b>2012</b> , 335, 1441-1441  | 33.3 | 27  |
| 19 | Interactions between large herbivores and litter removal by termites across a rainfall gradient in a South African savanna. <i>Journal of Tropical Ecology</i> , <b>2011</b> , 27, 375-382   | 1.3  | 10  |
| 18 | Ecology's cruel dilemma, phylogenetic trait evolution and the assembly of Serengeti plant communities. <i>Journal of Ecology</i> , <b>2011</b> , 99, 797-806                                 | 6    | 33  |
| 17 | Productivity is a poor predictor of plant species richness. <i>Science</i> , <b>2011</b> , 333, 1750-3   | 33.3 | 386 |
| 16 | Spatial guilds in the Serengeti food web revealed by a Bayesian group model. <i>PLoS Computational Biology</i> , <b>2011</b> , 7, e1002321   | 5    | 47  |
| 15 | Road will ruin Serengeti. <i>Nature</i> , <b>2010</b> , 467, 272-3   | 50.4 | 72  |
| 14 | Landscape-scale analyses suggest both nutrient and antipredator advantages to Serengeti herbivore hotspots. <i>Ecology</i> , <b>2010</b> , 91, 1519-29                                       | 4.6  | 90  |
| 13 | On the specification of structural equation models for ecological systems. <i>Ecological Monographs</i> , <b>2010</b> , 80, 67-87  | 9    | 496 |
| 12 | Community ecology: top-down turned upside-down. <i>Current Biology</i> , <b>2010</b> , 20, R854-5  | 6.3  |     |
| 11 | Plant compositional change over time increases with rainfall in Serengeti grasslands. <i>Oikos</i> , <b>2008</b> , 117, 675-682  | 4    | 25  |
| 10 | Rainfall and soils modify plant community response to grazing in Serengeti National Park. <i>Ecology</i> , <b>2007</b> , 88, 1191-201  | 4.6  | 78  |

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|---|---|-----|-----|
| 9 | Does species diversity limit productivity in natural grassland communities?. <i>Ecology Letters</i> , <b>2007</b> , 10, 680-9   | 10  | 290 |
| 8 | Multi-scale analysis of plant species richness in Serengeti grasslands. <i>Journal of Biogeography</i> , <b>2007</b> , 34, 313-323  | 4.1 | 28  |
| 7 | Forage nutritive quality in the Serengeti ecosystem: the roles of fire and herbivory. <i>American Naturalist</i> , <b>2007</b> , 170, 343-57  | 3.7 | 77  |
| 6 | Nutrient acquisition and physiological responses of dominant Serengeti grasses to variation in soil texture and grazing. <i>Journal of Ecology</i> , <b>2006</b> , 94, 1164-1175                  | 6   | 30  |
| 5 | Scale-dependent relationships between the spatial distribution of a limiting resource and plant species diversity in an African grassland ecosystem. <i>Oecologia</i> , <b>2004</b> , 139, 277-87 | 2.9 | 64  |
| 4 | The Relationship of Phylogeny to Community Structure: The Cactus Yeast Community. <i>American Naturalist</i> , <b>2004</b> , 164, 709-721   | 3.7 | 45  |
| 3 | Generation and Maintenance of Heterogeneity in the Serengeti Ecosystem 135-182  |     | 15  |
| 2 | Functional diversification enabled grassy biomes to fill global climate space   |     | 6   |
| 1 | Sapling growth gradients interact with homogeneous disturbance regimes to explain savanna tree cover discontinuities. <i>Ecological Monographs</i> ,  | 9   | 3   |