# William D Stock

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 88 papers | 5,873 citations | 117625 34 h-index | 74163 75 g-index |
| 90 all docs | 90 docs citations | 90 times ranked | 7988 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Global patterns of foliar nitrogen isotopes and their relationships with climate, mycorrhizal fungi, foliar nutrient concentrations, and nitrogen availability. New Phytologist, 2009, 183, 980-992. | 7.3 | 744 |
| 2 | Rooting theories of plant community ecology in microbial interactions. Trends in Ecology and Evolution, 2010, 25, 468-478. | 8.7 | 666 |
| 3 | Atmospheric nitrogen deposition in world biodiversity hotspots: the need for a greater global perspective in assessing N deposition impacts. Global Change Biology, 2006, 12, 470-476. | 9.5 | 471 |
| 4 | Ecosystem Level Impacts of Invasive Acacia saligna in the South African Fynbos. Restoration Ecology, 2004, 12, 44-51. | 2.9 | 262 |
| 5 | Browsing and fire interact to suppress tree density in an African savanna. Ecological Applications, 2009, 19, 1909-1919. | 3.8 | 234 |
| 6 | Ecological Engineering by a Mega-Grazer: White Rhino Impacts on a South African Savanna. Ecosystems, 2008, 11, 101-112. | 3.4 | 214 |
| 7 | Impacts of invading N2-fixing Acacia species on patterns of nutrient cycling in two Cape ecosystems: evidence from soil incubation studies and 15N natural abundance values. Oecologia, 1995, 101, 375-382. | 2.0 | 207 |
| 8 | Forces that structure plant communities: quantifying the importance of the mycorrhizal symbiosis. New Phytologist, 2011, 189, 366-370. | 7.3 | 149 |
| 9 | Nutrient concentration ratios and coâ€limitation in South African grasslands. New Phytologist, 2008, 179, 829-836. | 7.3 | 147 |
| 10 | Soil Nitrogen and the Role of Fire as a Mineralizing Agent in a South African Coastal Fynbos Ecosystem. Journal of Ecology, 1986, 74, 317. | 4.0 | 137 |
| 11 | Nitrogen deposition effects on Mediterranean-type ecosystems: An ecological assessment. Environmental Pollution, 2011, 159, 2265-2279. | 7.5 | 130 |
| 12 | Plant functional traits of dominant native and invasive species in mediterraneanâ€climate ecosystems. Ecology, 2016, 97, 75-83. | 3.2 | 123 |
| 13 | Influence of Seed Size and Quality on Seedling Development Under Low Nutrient Conditions in Five Australian and South African Members of the Proteaceae. Journal of Ecology, 1990, 78, 1005. | 4.0 | 112 |
| 14 | Plasticity of functional traits varies clinally along a rainfall gradient in Eucalyptus tricarpa. Plant, Cell and Environment, 2014, 37, 1440-1451. | 5.7 | 106 |
| 15 | PHYLOGENETICS OF THE GRASS GENUS EHRHARTA: EVIDENCE FOR RADIATION IN THE SUMMER-ARID ZONE OF THE SOUTH AFRICAN CAPE. Evolution; International Journal of Organic Evolution, 2003, 57, 1008-1021. | 2.3 | 103 |
| 16 | Genomeâ€wide scans detect adaptation to aridity in a widespread forest tree species. Molecular Ecology, 2014, 23, 2500-2513. | 3.9 | 95 |
| 17 | Facilitating adaptation of biodiversity to climate change: a conceptual framework applied to the worldâ€™s largest Mediterranean-climate woodland. Climatic Change, 2012, 110, 227-248. | 3.6 | 89 |
| 18 | Testing the adaptive nature of radiation: growth form and life history divergence in the African grass genusEhrharta(Poaceae: Ehrhartoideae). American Journal of Botany, 2004, 91, 1364-1370. | 1.7 | 82 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Functional Group Identity Does not Predict Invader Impacts: Differential Effects of Nitrogen-fixing Exotic Plants on Ecosystem Function. Biological Invasions, 2007, 9, 117-125. | 2.4 | 80 |
| 20 | Phylogenetic ecology of foliar N and P concentrations and N:P ratios across mediterraneanâ€type ecosystems. Global Ecology and Biogeography, 2012, 21, 1147-1156. | 5.8 | 75 |
| 21 | Assessing nitrogen fixation in mixed- and single-species plantations of Eucalyptus globulus and Acacia mearnsii. Tree Physiology, 2007, 27, 1319-1328. | 3.1 | 69 |
| 22 | Density dependent interactions between VA mycorrhizal fungi and even-aged seedlings of two perennial Fabaceae species. Oecologia, 1992, 91, 281-287. | 2.0 | 62 |
| 23 | The costs of leaving home: ants disperse myrmecochorous seeds to low nutrient sites. Oecologia, 1989, 81, 412-417. | 2.0 | 55 |
| 24 | Dry mass allocation, water use efficiency and Â13C in clones of Eucalyptus grandis, E. grandis x camaldulensis and E. grandis x nitens grown under two irrigation regimes. Tree Physiology, 1996, 16, 497-502. | 3.1 | 54 |
| 25 | On the uptake of ornithogenic products by plants on the inland mountains of Dronning Maud Land, Antarctica, using stable isotopes. Polar Biology, 1998, 20, 107-111. | 1.2 | 48 |
| 26 | Herbivore and nutrient control of lawn and bunch grass distributions in a southern African savanna. Plant Ecology, 2010, 206, 15-27. | 1.6 | 48 |
| 27 | Title is missing!. Plant and Soil, 2003, 255, 495-502. | 3.7 | 46 |
| 28 | Declining Trend in the13C/12C Ratio of Atmospheric Carbon Dioxide from Tree Rings of South AfricanWiddringtonia cedarbergensis. Quaternary Research, 1999, 52, 229-236. | 1.7 | 45 |
| 29 | Variation in water use efficiency and Î´13C levels in Eucalyptus grandis clones. Journal of Hydrology, 1993, 150, 615-633. | 5.4 | 44 |
| 30 | Do grazers alter nitrogen dynamics on grazing lawns in a South African savannah?. African Journal of Ecology, 2011, 49, 62-69. | 0.9 | 44 |
| 31 | Dynamics of phreatophyte root growth relative to a seasonally fluctuating water table in a Mediterranean-type environment. Oecologia, 2012, 170, 909-916. | 2.0 | 42 |
| 32 | Resource Control of Seed Set in Banksia laricina C. Gardner (Proteaceae). Functional Ecology, 1989, 3, 453. | 3.6 | 41 |
| 33 | Water stress vulnerability of four Banksia species in contrasting ecohydrological habitats on the Gnangara Mound, Western Australia. Plant, Cell and Environment, 2009, 32, 64-72. | 5.7 | 41 |
| 34 | Grazing and landscape controls on nitrogen availability across 330 South African savanna sites. Austral Ecology, 2009, 34, 731-740. | 1.5 | 41 |
| 35 | Genome-wide scans reveal cryptic population structure in a dry-adapted eucalypt. Tree Genetics and Genomes, 2015, 11, 1. | 1.6 | 34 |
| 36 | Regrowth and tannin production in woody and succulent karoo shrubs in response to simulated browsing. Oecologia, 1993, 96, 562-568. | 2.0 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | In vitro assessment of the toxicity of bushfire emissions: A review. Science of the Total Environment, 2017, 603-604, 268-278. | 8.0 | 33 |
| 38 | Cluster Roots of Leucadendron laureolum (Proteaceae) and Lupinus albus (Fabaceae) Take Up Glycine Intact: An Adaptive Strategy to Low Mineral Nitrogen in Soils?. Annals of Botany, 2005, 96, 1275-1282. | 2.9 | 32 |
| 39 | Evidence for adaptation and acclimation in a widespread eucalypt of semi-arid Australia. Biological Journal of the Linnean Society, 2017, 121, 484-500. | 1.6 | 32 |
| 40 | Pine as Fast Food: Foraging Ecology of an Endangered Cockatoo in a Forestry Landscape. PLoS ONE, 2013, 8, e61145. | 2.5 | 32 |
| 41 | UPTAKE AND ASSIMILATION OF NITRATE AND AMMONIUM BY AN EVERGREEN FYNBOS SHRUB SPECIES PROTEA REPENS L. (PROTEACEAE). New Phytologist, 1984, 97, 261-268. | 7.3 | 31 |
| 42 | Title is missing!. Plant Ecology, 2003, 168, 297-307. | 1.6 | 29 |
| 43 | Specialization to Extremely Low-Nutrient Soils Limits the Nutritional Adaptability of Plant Lineages. American Naturalist, 2017, 189, 684-699. | 2.1 | 29 |
| 44 | Atmospheric Deposition of Phosphorus in a Coastal Fynbos Ecosystem of the South-Western Cape, South Africa. Journal of Ecology, 1984, 72, 547. | 4.0 | 28 |
| 45 | Time since fire influences food resources for an endangered species, Carnabyâ€™s cockatoo, in a fire-prone landscape. Biological Conservation, 2014, 175, 1-9. | 4.1 | 28 |
| 46 | Historical nitrogen content of bryophyte tissue as an indicator of increased nitrogen deposition in the Cape Metropolitan Area, South Africa. Environmental Pollution, 2009, 157, 938-945. | 7.5 | 27 |
| 47 | Genomic Scans across Three Eucalypts Suggest that Adaptation to Aridity is a Genome-Wide Phenomenon. Genome Biology and Evolution, 2017, 9, 253-265. | 2.5 | 27 |
| 48 | Relationships Between Water Availability and Selected Vessel Characteristics in Eucalyptus Grandis and Two Hybrids. IAWA Journal, 1995, 16, 269-276. | 2.7 | 26 |
| 49 | Natural Abundance of Î´15N Confirms Insectivorous Habit ofRoridula gorgonias, Despite it Having No Proteolytic Enzymes. Annals of Botany, 1998, 82, 387-388. | 2.9 | 26 |
| 50 | Heat stimulated germination in relation to seed characteristics in fynbos legumes of the Western Cape Province, South Africa. South African Journal of Botany, 1997, 63, 129-132. | 2.5 | 25 |
| 51 | Interactive effects of altered rainfall and simulated nitrogen deposition on seedling establishment in a global biodiversity hotspot. Oikos, 2012, 121, 2014-2025. | 2.7 | 25 |
| 52 | Nonstructural carbohydrate allocation following different frequencies of simulated browsing in three semi-arid shrubs. Oecologia, 1995, 102, 238-245. | 2.0 | 24 |
| 53 | Seasonal allocation of dry mass and nitrogen in a fynbos endemic Restionaceae species Thamnochortus punctatus Pill.. Oecologia, 1987, 72, 315-320. | 2.0 | 23 |
| 54 | Long-term phosphorus fertilization effects on the litter dynamics of an age sequence of Pinus elliottii plantations in the southern Cape of South Africa. Forest Ecology and Management, 1995, 75, 135-146. | 3.2 | 22 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | An assessment of the dendrochronological potential of two Podocarpus species. Holocene, 1998, 8, 747-750. | 1.7 | 21 |
| 56 | Field patterns of nodulation in fifteen Aspalathus species and their ecological role in the fynbos vegetation of southern Africa. Basic and Applied Ecology, 2001, 2, 115-125. | 2.7 | 21 |
| 57 | Long-term effects of elevated atmospheric CO2 on species composition and productivity of a southern African C4 dominated grassland in the vicinity of a CO2 exhalation. Plant Ecology, 2005, 178, 211-224. | 1.6 | 21 |
| 58 | Atmospheric input of nitrogen to a coastal fynbos ecosystem of the south-western Cape Province, South Africa. South African Journal of Botany, 1986, 52, 273-276. | 2.5 | 19 |
| 59 | Bird effects on organic processes in soils from five microhabitats on a nunatak with and without breeding snow petrels in Dronning Maud Land, Antarctica. Polar Biology, 1998, 20, 112-120. | 1.2 | 19 |
| 60 | An evaluation of some manual colorimetric methods for the determination of inorganic nitrogen in soil extracts. Communications in Soil Science and Plant Analysis, 1983, 14, 925-936. | 1.4 | 18 |
| 61 | Fynbos plant communities and vegetationâ€“environment relationships in the Soetanysberg hills, Western Cape. South African Journal of Botany, 1995, 61, 298-305. | 2.5 | 18 |
| 62 | Phytochemical changes in leaves of subtropical grasses and fynbos shrubs at elevated atmospheric CO2 concentrations. Global and Planetary Change, 2005, 47, 181-192. | 3.5 | 18 |
| 63 | Pollen adaptation to ant pollination: a case study from the Proteaceae. Annals of Botany, 2020, 126, 377-386. | 2.9 | 18 |
| 64 | Effects of water availability, nitrogen supply and atmospheric CO2 concentrations on plant nitrogen natural abundance values. Functional Plant Biology, 2006, 33, 219. | 2.1 | 17 |
| 65 | Partitioning of nutrients in Acanthosicyos horridus, a keystone endemic species in the Namib Desert. Journal of Arid Environments, 1994, 26, 233-240. | 2.4 | 15 |
| 66 | Dendroecological indicators of historical responses of pines to water and nutrient availability on a superficial aquifer in south-western Australia. Forest Ecology and Management, 2012, 264, 108-114. | 3.2 | 15 |
| 67 | Global resource acquisition patterns of invasive and native plant species do not hold at the regional scale in Mediterranean type ecosystems. Biological Invasions, 2017, 19, 1143-1151. | 2.4 | 15 |
| 68 | Using a functional ecology approach to assist plant selection for restoration of Mediterranean woodlands. Forest Ecology and Management, 2018, 424, 1-10. | 3.2 | 15 |
| 69 | Emission factors and composition of PM2.5 from laboratory combustion of five Western Australian vegetation types. Science of the Total Environment, 2020, 703, 134796. | 8.0 | 14 |
| 70 | Soil nitrogen mineralization in a coastal fynbos succession. Plant and Soil, 1988, 106, 295-298. | 3.7 | 13 |
| 71 | Seed developmental patterns in Banksia attenuata R. Br. and B. laricina C. Gardner in relation to mechanical defence costs. New Phytologist, 1991, 117, 109-114. | 7.3 | 13 |
| 72 | Rapid root elongation by phreatophyte seedlings does not imply tolerance of water table decline. Trees - Structure and Function, 2015, 29, 815-824. | 1.9 | 12 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Foraging by Carnaby's Black-Cockatoo in Banksia woodland on the Swan Coastal Plain, Western Australia. Emu, 2016, 116, 284-293. | 0.6 | 12 |
| 74 | Habitat fragmentation restricts insect pollinators and pollen quality in a threatened Proteaceae species. Biological Conservation, 2020, 252, 108824. | 4.1 | 11 |
| 75 | The Functional Ecology of Grazing Lawns: How Grazers, Termites, People, and Fire Shape HiP's Savanna Grassland Mosaic. , 2017, , 135-160. | | 10 |
| 76 | Environmental drivers and genomic architecture of trait differentiation in fireâ€adapted Banksia attenuata ecotypes. Journal of Integrative Plant Biology, 2019, 61, 417-432. | 8.5 | 10 |
| 77 | Floral display and habitat fragmentation: Effects on the reproductive success of the threatened massâ€flowering Conospermum undulatum (Proteaceae). Ecology and Evolution, 2019, 9, 11494-11503. | 1.9 | 9 |
| 78 | The relationship between ring width measures and precipitation for Widdringtonia cedarbergensis. South African Journal of Botany, 1998, 64, 213-216. | 2.5 | 8 |
| 79 | Isolation, characterization, and crossâ€amplification of 20 microsatellite markers for Conospermum undulatum (Proteaceae). Applications in Plant Sciences, 2019, 7, e11283. | 2.1 | 8 |
| 80 | Citizen science monitoring reveals a significant, ongoing decline of the Endangered Carnaby's black-cockatoo Calyptorhynchus latirostris. Oryx, 2016, 50, 626-635. | 1.0 | 7 |
| 81 | Extraction of nitrate reductase from members of the South African Proteaceae. South African Journal of Botany, 1982, 1, 124-126. | 2.5 | 6 |
| 82 | Genetic and ecological consequences of recent habitat fragmentation in a narrow endemic plant species within an urban context. Biodiversity and Conservation, 2021, 30, 3457-3478. | 2.6 | 5 |
| 83 | Emissions of gaseous pollutants from laboratory-based fires of vegetation from five common vegetation types in Western Australia. Atmospheric Pollution Research, 2020, 11, 180-189. | 3.8 | 3 |
| 84 | A refined method for estimating capsule crops in individual jarrah (Eucalyptus marginata) crowns. Australian Forestry, 2016, 79, 208-216. | 0.9 | 2 |
| 85 | Contemporary Fire Regimes of the Arid Carnarvon Basin Region of Western Australia. Fire, 2018, 1, 51. | 2.8 | 2 |
| 86 | Implications of Banksia seed reward for conservation and management of Carnabyâ€™s cockatoo on the Swan coastal plain, Western Australia. Australian Journal of Zoology, 2019, 67, 12. | 1.0 | 2 |
| 87 | Plants anticipating rain â€“ a challenge for modelling climate change impacts. New Phytologist, 2017, 213, 475-477. | 7.3 | 1 |
| 88 | Fire in Organic-Rich Wetland Sediments: Inorganic Responses in Porewater. Water, Air, and Soil Pollution, 2021, 232, 1. | 2.4 | 1 |