

Robert J Scholes

List of Publications by Year in descending order

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Version: 2024-02-01

89
papers

23,111
citations

31976

53
h-index

56724

83
g-index

95
all docs

95
docs citations

95
times ranked

28149
citing authors

#	ARTICLE	IF	CITATIONS
1	Greenhouse gas observation network design for Africa. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 72, 1824486.	1.6	8
2	Test for Covid-19 seasonality and the risk of second waves. <i>One Health</i> , 2021, 12, 100202.	3.4	37
3	Opportunities for an African greenhouse gas observation system. <i>Regional Environmental Change</i> , 2021, 21, 1.	2.9	8
4	The role of climate, foliar stoichiometry and plant diversity on ecosystem carbon balance. <i>Global Change Biology</i> , 2020, 26, 7067-7078.	9.5	13
5	Winter Is Coming: A Southern Hemisphere Perspective of the Environmental Drivers of SARS-CoV-2 and the Potential Seasonality of COVID-19. <i>International Journal of Environmental Research and Public Health</i> , 2020, 17, 5634.	2.6	82
6	The climate impact of land use change in the miombo region of south central Africa. <i>Journal of Integrative Environmental Sciences</i> , 2020, 17, 187-203.	2.5	3
7	The Future of Semi-Arid Regions: A Weak Fabric Unravels. <i>Climate</i> , 2020, 8, 43.	2.8	39
8	Principles for knowledge co-production in sustainability research. <i>Nature Sustainability</i> , 2020, 3, 182-190.	23.7	697
9	The IPBES Global Assessment: Pathways to Action. <i>Trends in Ecology and Evolution</i> , 2020, 35, 407-414.	8.7	77
10	An atmospheric inversion over the city of Cape Town: sensitivity analyses. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 7789-7816.	4.9	7
11	Development of a Climate Forcing Observation System for Africa: Data-Related Considerations. <i>Data Science Journal</i> , 2019, 18, 42.	1.3	4
12	Estimates of CO ₂ fluxes over the city of Cape Town, South Africa, through Bayesian inverse modelling. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4765-4801.	4.9	22
13	Towards a feasible and representative pan-African research infrastructure network for GHG observations. <i>Environmental Research Letters</i> , 2018, 13, 085003.	5.2	20
14	Differing Responses to Rainfall Suggest More Than One Functional Type of Grassland in South Africa. <i>Remote Sensing</i> , 2018, 10, 2055.	4.0	6
15	Relationships Between Ecosystem Services: Comparing Methods for Assessing Tradeoffs and Synergies. <i>Ecological Economics</i> , 2018, 150, 96-106.	5.7	122
16	Comparison of the genetic algorithm and incremental optimisation routines for a Bayesian inverse modelling based network design. <i>Inverse Problems</i> , 2018, 34, 055006.	2.0	6
17	Ecosystem Services. , 2017, , 39-78.		19
18	IPCC reasons for concern regarding climate change risks. <i>Nature Climate Change</i> , 2017, 7, 28-37.	18.8	266

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19	Essential Variables help to focus Sustainable Development Goals monitoring. <i>Current Opinion in Environmental Sustainability</i> , 2017, 26-27, 97-105.	6.3	126
20	Taking the Mumbo Out of the Jumbo: Progress Towards a Robust Basis for Ecological Scaling. <i>Ecosystems</i> , 2017, 20, 4-13.	3.4	27
21	Climate change and ecosystem services. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 537-550.	8.1	50
22	Observation and integrated Earth-system science: A roadmap for 2016–2025. <i>Advances in Space Research</i> , 2016, 57, 2037-2103.	2.6	35
23	Evidence for facultative deciduousness in <i>Cyclophospermum mopane</i> in semi-arid African savannas. <i>Austral Ecology</i> , 2016, 41, 87-96.	1.5	15
24	Big-picture ecology for a small planet. <i>Koedoe</i> , 2015, 57, .	0.9	0
25	Spatial and temporal disaggregation of anthropogenic CO2 emissions from the City of Cape Town. <i>South African Journal of Science</i> , 2015, 111, 8.	0.7	2
26	Biogeochemical cycles and biodiversity as key drivers of ecosystem services provided by soils. <i>Soil</i> , 2015, 1, 665-685.	4.9	249
27	The IPBES Conceptual Framework – connecting nature and people. <i>Current Opinion in Environmental Sustainability</i> , 2015, 14, 1-16.	6.3	1,658
28	A full greenhouse gases budget of Africa: synthesis, uncertainties, and vulnerabilities. <i>Biogeosciences</i> , 2014, 11, 381-407.	3.3	162
29	Assessing non-CO2 climate-forcing emissions and mitigation in sub-Saharan Africa. <i>Current Opinion in Environmental Sustainability</i> , 2014, 9-10, 65-72.	6.3	25
30	Approaches to defining a planetary boundary for biodiversity. <i>Global Environmental Change</i> , 2014, 28, 289-297.	7.8	236
31	Interacting Regional-Scale Regime Shifts for Biodiversity and Ecosystem Services. <i>BioScience</i> , 2014, 64, 665-679.	4.9	41
32	Multi-scale and cross-scale assessments of social–ecological systems and their ecosystem services. <i>Current Opinion in Environmental Sustainability</i> , 2013, 5, 16-25.	6.3	196
33	Dust Unto Dust. <i>Science</i> , 2013, 342, 565-566.	12.6	36
34	Evaluation of MODIS gross primary productivity for Africa using eddy covariance data. <i>Remote Sensing of Environment</i> , 2013, 131, 275-286.	11.0	125
35	Essential Biodiversity Variables. <i>Science</i> , 2013, 339, 277-278.	12.6	1,150
36	South African Food Security and Climate Change: Agriculture Futures. <i>Economics</i> , 2013, 7, .	0.6	7

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37	Generating 275-m Resolution Land Surface Products From the Multi-Angle Imaging SpectroRadiometer Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 3980-3990.	6.3	14
38	Greenness in semi-arid areas across the globe 1981â€“2007 â€” an Earth Observing Satellite based analysis of trends and drivers. <i>Remote Sensing of Environment</i> , 2012, 121, 144-158.	11.0	596
39	What Next for Agriculture After Durban?. <i>Science</i> , 2012, 335, 289-290.	12.6	133
40	Building a global observing system for biodiversity. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 139-146.	6.3	125
41	Program on ecosystem change and society: an international research strategy for integrated socialâ€“ecological systems. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 134-138.	6.3	89
42	Biodiversity and ecosystem services science for a sustainable planet: the DIVERSITAS vision for 2012â€“20. <i>Current Opinion in Environmental Sustainability</i> , 2012, 4, 101-105.	6.3	62
43	Limits to detectability of land degradation by trend analysis of vegetation index data. <i>Remote Sensing of Environment</i> , 2012, 125, 10-22.	11.0	253
44	A framework for deriving and triggering thresholds for management intervention in uncertain, varying and time-lagged systems. <i>Koedoe</i> , 2011, 53, .	0.9	17
45	The charcoal trap: Miombo forests and the energy needs of people. <i>Carbon Balance and Management</i> , 2011, 6, 5.	3.2	38
46	Scientific concepts for an integrated analysis of desertification. <i>Land Degradation and Development</i> , 2011, 22, 166-183.	3.9	122
47	Exploring the potential of MODIS EVI for modeling gross primary production across African ecosystems. <i>Remote Sensing of Environment</i> , 2011, 115, 1081-1089.	11.0	113
48	A method for calculating the variance and confidence intervals for tree biomass estimates obtained from allometric equations. <i>South African Journal of Science</i> , 2011, 107, .	0.7	36
49	Functional Convergence in Ecosystem Carbon Exchange in Adjacent Savanna Vegetation Types of the Kruger National Park, South Africa. , 2010, , 77-95.		2
50	Biodiversity targets after 2010. <i>Current Opinion in Environmental Sustainability</i> , 2010, 2, 3-8.	6.3	124
51	Treeâ€“grass co-existence in savanna: Interactions of rain and fire. <i>Journal of Theoretical Biology</i> , 2010, 267, 235-242.	1.7	103
52	Climate and the interâ€“annual variability of fire in southern Africa: a metaâ€“analysis using longâ€“term field data and satelliteâ€“derived burnt area data. <i>Global Ecology and Biogeography</i> , 2010, 19, 794-809.	5.8	116
53	Southern African fire regimes as revealed by remote sensing. <i>International Journal of Wildland Fire</i> , 2010, 19, 861.	2.4	188
54	Scenarios for Global Biodiversity in the 21st Century. <i>Science</i> , 2010, 330, 1496-1501.	12.6	1,570

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55	Complexity in water and carbon dioxide fluxes following rain pulses in an African savanna. <i>Oecologia</i> , 2009, 161, 469-480.	2.0	89
56	Estimating carbon in savanna ecosystems: rational distribution of effort. <i>Mitigation and Adaptation Strategies for Global Change</i> , 2009, 14, 579-604.	2.1	6
57	What limits fire? An examination of drivers of burnt area in Southern Africa. <i>Global Change Biology</i> , 2009, 15, 613-630.	9.5	590
58	Biodiversity, climate change, and ecosystem services. <i>Current Opinion in Environmental Sustainability</i> , 2009, 1, 46-54.	6.3	337
59	Climate and desertification: looking at an old problem through new lenses. <i>Frontiers in Ecology and the Environment</i> , 2009, 7, 421-428.	4.0	93
60	Science for managing ecosystem services: Beyond the Millennium Ecosystem Assessment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 1305-1312.	7.1	1,736
61	Using MISR full spatial resolution level 1B2 data to characterize the savannah environment around the Skukuza CSIR research site. , 2009, , .		0
62	A Conceptual Framework for Assessing the Benefits of a Global Earth Observation System of Systems. <i>IEEE Systems Journal</i> , 2008, 2, 338-348.	4.6	35
63	Long-term sunspot forcing of savanna structure inferred from carbon and oxygen isotopes. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	5
64	Designing protected areas to conserve riverine biodiversity: Lessons from a hypothetical redesign of the Kruger National Park. <i>Biological Conservation</i> , 2008, 141, 100-117.	4.1	93
65	Measuring uncertainty in estimates of biodiversity loss: The example of biodiversity intactness variance. <i>Biological Conservation</i> , 2008, 141, 1091-1094.	4.1	15
66	Scenarios of biodiversity loss in southern Africa in the 21st century. <i>Global Environmental Change</i> , 2008, 18, 296-309.	7.8	90
67	Climate change and desertification: Where do we stand, where should we go?. <i>Global and Planetary Change</i> , 2008, 64, 105-110.	3.5	34
68	Toward a Global Biodiversity Observing System. <i>Science</i> , 2008, 321, 1044-1045.	12.6	234
69	Africa and the global carbon cycle. <i>Carbon Balance and Management</i> , 2007, 2, 3.	3.2	144
70	Policy and technological constraints to implementation of greenhouse gas mitigation options in agriculture. <i>Agriculture, Ecosystems and Environment</i> , 2007, 118, 6-28.	5.3	459
71	Leaf green-up in a semi-arid African savanna – separating tree and grass responses to environmental cues. <i>Journal of Vegetation Science</i> , 2007, 18, 583.	2.2	128
72	Diversity without representation. <i>Nature</i> , 2006, 442, 245-246.	27.8	139

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73	Nature: the many benefits of ecosystem services. <i>Nature</i> , 2006, 443, 749-749.	27.8	69
74	ECOLOGY: Enhanced: Millennium Ecosystem Assessment: Research Needs. <i>Science</i> , 2006, 314, 257-258.	12.6	442
75	A biodiversity intactness index. <i>Nature</i> , 2005, 434, 45-49.	27.8	400
76	Determinants of woody cover in African savannas. <i>Nature</i> , 2005, 438, 846-849.	27.8	1,543
77	A Synthesis of Information on Rapid Land-cover Change for the Period 1981â€“2000. <i>BioScience</i> , 2005, 55, 115.	4.9	367
78	Canopy structure in savannas along a moisture gradient on Kalahari sands. <i>Global Change Biology</i> , 2004, 10, 292-302.	9.5	61
79	Conundrums in mixed woody-herbaceous plant systems. <i>Journal of Biogeography</i> , 2003, 30, 1763-1777.	3.0	308
80	Africa burning: A thematic analysis of the Southern African Regional Science Initiative (SAFARI 2000). <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	204
81	Influence of timing and spatial extent of savanna fires in southern Africa on atmospheric emissions. <i>Journal of Arid Environments</i> , 2003, 54, 395-404.	2.4	59
82	Recent patterns and mechanisms of carbon exchange by terrestrial ecosystems. <i>Nature</i> , 2001, 414, 169-172.	27.8	1,162
83	CLIMATE CHANGE: Storing Carbon on Land. <i>Science</i> , 2001, 294, 1012-1013.	12.6	102
84	The Global Carbon Cycle: A Test of Our Knowledge of Earth as a System. <i>Science</i> , 2000, 290, 291-296.	12.6	1,601
85	Downward flux of water through roots (i.e. inverse hydraulic lift) in dry Kalahari sands. <i>Oecologia</i> , 1998, 115, 460-462.	2.0	142
86	TREE-GRASS INTERACTIONS IN SAVANNAS. <i>Annual Review of Ecology, Evolution, and Systematics</i> , 1997, 28, 517-544.	6.7	2,023
87	Preface. <i>Environmental Monitoring and Assessment</i> , 1995, 38-38, vii-vii.	2.7	0
88	Observations and modeling of biomass and soil organic matter dynamics for the grassland biome worldwide. <i>Global Biogeochemical Cycles</i> , 1993, 7, 785-809.	4.9	1,101
89	Key impacts of climate engineering on biodiversity and ecosystems, with priorities for future research. <i>Journal of Integrative Environmental Sciences</i> , 0, , 1-26.	2.5	11