Mathieu Rouget

List of Publications by Year
in descending order

106 papers	11,296 citations	47006 47 h-index	36028 97 g-index
107 all docs	107 docs citations	107 times ranked	11925 citing authors

#	Article	IF	Citations
1	Improving the management of threatened ecosystems in an urban biodiversity hotspot through the Durban Research Action Partnership. Bothalia, 2023, 46, .	0.3	3
2	An impact assessment tool to identify, quantify and select optimal social-economic, ecological and health outcomes of civic environmental management interventions, in Durban South Africa. Journal of Environmental Management, 2022, 302, 113966.	7.8	8
3	Civic Ecology Uplifts Low-Income Communities, Improves Ecosystem Services and Well-Being, and Strengthens Social Cohesion. Sustainability, 2021, 13, 1300.	3.2	9
4	Quantifying invasion degree by alien plants species in Reunion Island. Austral Ecology, 2021, 46, 1025-1037.	1.5	16
5	Adaptive management in restoration initiatives: Lessons learned from some of South Africa's projects. South African Journal of Botany, 2021, 139, 352-361.	2.5	5
6	Can an El NiÃ±o induced drought hamper the reforestation of the subtropical forest?. South African Journal of Botany, 2021, 141, 152-157.	2.5	0
7	An assessment of biological control of Rubus alceifolius invasion on RÃ©union Island (Mascarene) Tj ETQq1 1 0.784314 rgBT /Overlo	3.0	2
8	Relational Hubs for Collaborative Landscape Stewardship. Society and Natural Resources, 2020, 33, 681-693.	1.9	13
9	Diversity of pollen sources used by managed honey bees in variegated landscapes. Journal of Apicultural Research, 2020, 59, 988-999.	1.5	8
10	The Biogeography of South African Terrestrial Plant Invasions. , 2020, , 67-96.		34
11	meaning and practice of stewardship in South Africa. South African Journal of Science, 2019, 115, .	0.7	20
12	Collaborative stewardship in multifunctional landscapes: toward relational, pluralistic approaches. Ecology and Society, 2019, 24, .	2.3	20
13	Towards Place-Based Research to Support Socialâ€“Ecological Stewardship. Sustainability, 2018, 10, 1434.	3.2	37
14	Restoration planning for climate change mitigation and adaptation in the city of Durban, South Africa. International Journal of Biodiversity Science, Ecosystem Services & Management, 2018, 14, 132-144.	2.9	11
15	Why are woody plants fleshyâ€fruited at low elevations? Evidence from a highâ€elevation oceanic island. Journal of Vegetation Science, 2018, 29, 847-858.	2.2	13
16	Assessing the role of dispersed floral resources for managed bees in providing supporting ecosystem services for crop pollination. PeerJ, 2018, 6, e5654.	2.0	7
17	Spatial analyses of threats to ecosystem service hotspots in Greater Durban, South Africa. PeerJ, 2018, 6, e5723.	2.0	11
18	Testing the capabilities of the new WorldView-3 space-borne sensorâ€™s red-edge spectral band in discriminating and mapping complex grassland management treatments. International Journal of Remote Sensing, 2017, 38, 1-22.	2.9	29

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19	How do invasive species travel to and through urban environments?. Biological Invasions, 2017, 19, 3557-3570.	2.4	82
20	Rapid prioritization of alien plants for eradication based on climatic suitability and eradication feasibility. Austral Ecology, 2017, 42, 995-1005.	1.5	9
21	Estimating Biomass of Native Grass Grown under Complex Management Treatments Using WorldView-3 Spectral Derivatives. Remote Sensing, 2017, 9, 55.	4.0	45
22	An Assessment of a Community-Based, Forest Restoration Programme in Durban (eThekwini), South Africa. Forests, 2017, 8, 255.	2.1	11
23	Prioritising surveillance for alien organisms transported as stowaways on ships travelling to South Africa. PLoS ONE, 2017, 12, e0173340.	2.5	20
24	The balance of trade in alien species between South Africa and the rest of Africa. Bothalia, 2017, 47, .	0.3	29
25	Invasion debt â€“ quantifying future biological invasions. Diversity and Distributions, 2016, 22, 445-456.	4.1	160
26	Border control for stowaway alien species should be prioritised based on variations in establishment debt. Journal of Environmental Management, 2016, 180, 301-309.	7.8	8
27	Discriminating Rangeland Management Practices Using Simulated HyspIRI, Landsat 8 OLI, Sentinel 2 MSI, and VENÂµS Spectral Data. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2016, 9, 3957-3969.	4.9	36
28	Comparing the spectral settings of the new generation broad and narrow band sensors in estimating biomass of native grasses grown under different management practices. GIScience and Remote Sensing, 2016, 53, 614-633.	5.9	41
29	Understanding and managing the introduction pathways of alien taxa: South Africa as a case study. Biological Invasions, 2016, 18, 73-87.	2.4	54
30	Mapping alien and indigenous vegetation in the KwaZulu-Natal Sandstone Sourveld using remotely sensed data. Bothalia, 2016, 46, .	0.3	22
31	Assessing habitat fragmentation of the KwaZulu-Natal Sandstone Sourveld, a threatened ecosystem. Bothalia, 2016, 46, .	0.3	6
32	Managing a threatened savanna ecosystem (KwaZulu-Natal Sandstone Sourveld) in an urban biodiversity hotspot: Durban, South Africa. Bothalia, 2016, 46, .	0.3	21
33	Identifying ecosystem service hotspots for environmental management in Durban, South Africa. Bothalia, 2016, 46, .	0.3	30
34	A spatial and temporal assessment of fire regimes on different vegetation types using MODIS burnt area products. Bothalia, 2016, 46, .	0.3	7
35	Evaluating the outcomes and processes of a research-action partnership: The need for continuous reflective evaluation. Bothalia, 2016, 46, .	0.3	12
36	The Importance of Grasslands in Providing Ecosystem Services. , 2016, , 421-441.		9

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37	How to build science-action partnerships for local land-use planning and management: lessons from Durban, South Africa. Ecology and Society, 2016, 21, .	2.3	47
38	Improving the management of threatened ecosystems in an urban biodiversity hotspot through the Durban Research Action Partnership. Bothalia, 2016, 46, .	0.3	0
39	The IUCN Red List of Ecosystems: Motivations, Challenges, and Applications. Conservation Letters, 2015, 8, 214-226.	5.7	141
40	Landscape connectivity of the grassland biome in <scp>M</scp>pumalanga, <scp>S</scp>outh <scp>A</scp>frica. Austral Ecology, 2015, 40, 67-76.	1.5	12
41	Plant invasions as a biogeographical assay: Vegetation biomes constrain the distribution of invasive alien species assemblages. South African Journal of Botany, 2015, 101, 24-31.	2.5	38
42	Examining the potential of Sentinel-2 MSI spectral resolution in quantifying above ground biomass across different fertilizer treatments. ISPRS Journal of Photogrammetry and Remote Sensing, 2015, 110, 55-65.	11.1	128
43	Exploring the potential ofin situhyperspectral data and multivariate techniques in discriminating different fertilizer treatments in grasslands. Journal of Applied Remote Sensing, 2015, 9, 096033.	1.3	32
44	An assessment of the information content of South African alien species databases. Bothalia, 2015, 45, .	0.3	10
45	Touristsâ€™ perceptions and willingness to pay for the control of <i>Opuntia stricta</i> invasion in protected areas: A case study from South Africa. Koedoe, 2014, 56, .	0.9	7
46	Pollination ecosystem services in South African agricultural systems. South African Journal of Science, 2014, 110, 9.	0.7	28
47	A simple, rapid methodology for developing invasive species watch lists. Biological Conservation, 2014, 179, 25-32.	4.1	51
48	Relatedness defies biogeography: the tale of two island endemics (<scp>A</scp>cacia) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td	7.3	49
49	Impacts of past habitat loss and future climate change on the range dynamics of South African Proteaceae. Diversity and Distributions, 2013, 19, 363-376.	4.1	33
50	Effect of Land Cover and Ecosystem Mapping on Ecosystemâ€Risk Assessment in the Little Karoo, South Africa. Conservation Biology, 2013, 27, 531-541.	4.7	11
51	Integrating conservation, restoration and land-use planning in islandsâ€"An illustrative case study in RÃ©union Island (Western Indian Ocean). Landscape and Urban Planning, 2011, 101, 120-130.	7.5	27
52	Nationalâ€scale strategic approaches for managing introduced plants: insights from Australian acacias in South Africa. Diversity and Distributions, 2011, 17, 1060-1075.	4.1	157
53	Humanâ€mediated introductions of Australian acacias â€" a global experiment in biogeography. Diversity and Distributions, 2011, 17, 771-787.	4.1	245
54	Establishing IUCN Red List Criteria for Threatened Ecosystems. Conservation Biology, 2011, 25, 21-29.	4.7	132

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55	Identifying priority areas for ecosystem service management in South African grasslands. Journal of Environmental Management, 2011, 92, 1642-1650.	7.8	142
56	Measuring, modeling and mapping ecosystem services in the Eastern Arc Mountains of Tanzania. Progress in Physical Geography, 2011, 35, 595-611.	3.2	84
57	Predicting Incursion of Plant Invaders into Kruger National Park, South Africa: The Interplay of General Drivers and Species-Specific Factors. PLoS ONE, 2011, 6, e28711.	2.5	21
58	Safeguarding Biodiversity and Ecosystem Services in the Little Karoo, South Africa. Conservation Biology, 2010, 24, 1021-1030.	4.7	66
59	Evaluating Private Land Conservation in the Cape Lowlands, South Africa. Conservation Biology, 2010, 24, 1182-1189.	4.7	32
60	Protected-Area Boundaries as Filters of Plant Invasions. Conservation Biology, 2010, 25, no-no.	4.7	88
61	Measuring the effectiveness of regional conservation assessments at representing biodiversity surrogates at a local scale: A case study in RÃ©union Island (Indian Ocean). Austral Ecology, 2010, 35, 121-133.	1.5	16
62	Mapping Grazing-Induced Degradation in a Semi-Arid Environment: A Rapid and Cost Effective Approach for Assessment and Monitoring. Environmental Management, 2009, 43, 585-596.	2.7	33
63	Patterns of alien plant distribution at multiple spatial scales in a large national park: implications for ecology, management and monitoring. Diversity and Distributions, 2009, 15, 367-378.	4.1	58
64	Spatial congruence between biodiversity and ecosystem services in South Africa. Biological Conservation, 2009, 142, 553-562.	4.1	240
65	Identifying and mapping biodiversity processes for conservation planning in islands: A case study in RÃ©union Island (Western Indian Ocean). Biological Conservation, 2009, 142, 1523-1535.	4.1	41
66	Integrating freshwater and terrestrial priorities in conservation planning. Biological Conservation, 2009, 142, 2217-2226.	4.1	37
67	Mapping ecosystem services for planning and management. Agriculture, Ecosystems and Environment, 2008, 127, 135-140.	5.3	461
68	Knowing But Not Doing: Selecting Priority Conservation Areas and the Researchâ€“Implementation Gap. Conservation Biology, 2008, 22, 610-617.	4.7	664
69	An operational model for mainstreaming ecosystem services for implementation. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 9483-9488.	7.1	518
70	Response to Hockley: The merit of economic and biological measures in conservation planning. Trends in Ecology and Evolution, 2007, 22, 287-288.	8.7	0
71	Improving the Key Biodiversity Areas Approach for Effective Conservation Planning. BioScience, 2007, 57, 256-261.	4.9	62
72	Preserving the evolutionary potential of floras in biodiversity hotspots. Nature, 2007, 445, 757-760.	27.8	787

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73	Residence time and potential range: crucial considerations in modelling plant invasions. Diversity and Distributions, 2007, 13, 11-22.	4.1	295
74	Invasive alien plants and South African rivers: a proposed approach to the prioritization of control operations. Freshwater Biology, 2007, 52, 711-723.	2.4	42
75	Risk Assessment of Riparian Plant Invasions into Protected Areas. Conservation Biology, 2007, 21, 412-421.	4.7	85
76	Rivers in peril inside and outside protected areas: a systematic approach to conservation assessment of river ecosystems. Diversity and Distributions, 2007, 13, 341-352.	4.1	173
77	Developing products for conservation decisionâ€making: lessons from a spatial biodiversity assessment for South Africa. Diversity and Distributions, 2007, 13, 608-619.	4.1	42
78	Integrating ecosystem services into conservation assessments: A review. Ecological Economics, 2007, 63, 714-721.	5.7	292
79	Alien plant invasionsâ€"incorporating emerging invaders in regional prioritization: A pragmatic approach for Southern Africa. Journal of Environmental Management, 2007, 84, 173-187.	7.8	44
80	INTERACTIONS BETWEEN ENVIRONMENT, SPECIES TRAITS, AND HUMAN USES DESCRIBE PATTERNS OF PLANT INVASIONS. Ecology, 2006, 87, 1755-1769.	3.2	272
81	Integrating economic costs into conservation planning. Trends in Ecology and Evolution, 2006, 21, 681-687.	8.7	868
82	Current distribution and potential extent of the most invasive alien plant species on La Reunion (Indian Ocean, Mascarene islands). Austral Ecology, 2006, 31, 747-758.	1.5	69
83	Designing Large-Scale Conservation Corridors for Pattern and Process. Conservation Biology, 2006, 20, 549-561.	4.7	238
84	Designing Systematic Conservation Assessments that Promote Effective Implementation: Best Practice from South Africa. Conservation Biology, 2006, 20, 739-750.	4.7	180
85	Getting the biodiversity intactness index right: the importance of habitat degradation data. Global Change Biology, 2006, 12, 2032-2036.	9.5	63
86	Niche-based modelling as a tool for predicting the risk of alien plant invasions at a global scale. Global Change Biology, 2005, 11, 2234-2250.	9.5	742
87	Potential impacts of future land use and climate change on the Red List status of the Proteaceae in the Cape Floristic Region, South Africa. Global Change Biology, 2005, 11, 1452-1468.	9.5	113
88	An Assessment of Habitat Diversity and Transformation on La RÃ©union Island (Mascarene Islands,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5 Conservation, 2005, 14, 3015-3032.	2.6	129
89	Systematic conservation planning products for land-use planning: Interpretation for implementation. Biological Conservation, 2005, 125, 441-458.	4.1	152
90	Species richness of alien plants in South Africa: Environmental correlates and the relationship with indigenous plant species richness. Ecoscience, 2005, 12, 391-402.	1.4	72

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91	Reconstructing 50Âyears of Opuntia stricta invasion in the Kruger National Park, South Africa: environmental determinants and propagule pressure. Diversity and Distributions, 2004, 10, 427-437.	4.1	96
92	Mapping the potential ranges of major plant invaders in South Africa, Lesotho and Swaziland using climatic suitability. Diversity and Distributions, 2004, 10, 475-484.	4.1	163
93	Nature Conservation Requires More than a Passion for Species. Conservation Biology, 2004, 18, 1674-1676.	4.7	87
94	Using Natural Experiments in the Study of Alien Tree Invasions: Opportunities and Limitations. , 2004, , 180-201.		25
95	Identifying spatial components of ecological and evolutionary processes for regional conservation planning in the Cape Floristic Region, South Africa. Diversity and Distributions, 2003, 9, 191-210.	4.1	130
96	Inferring Process from Pattern in Plant Invasions: A Semimechanistic Model Incorporating Propagule Pressure and Environmental Factors. American Naturalist, 2003, 162, 713-724.	2.1	275
97	Current patterns of habitat transformation and future threats to biodiversity in terrestrial ecosystems of the Cape Floristic Region, South Africa. Biological Conservation, 2003, 112, 63-85.	4.1	232
98	The current configuration of protected areas in the Cape Floristic Region, South Africaâ€"reservation bias and representation of biodiversity patterns and processes. Biological Conservation, 2003, 112, 129-145.	4.1	119
99	Measuring conservation value at fine and broad scales: implications for a diverse and fragmented region, the Agulhas Plain. Biological Conservation, 2003, 112, 217-232.	4.1	79
100	Formulating conservation targets for biodiversity pattern and process in the Cape Floristic Region, South Africa. Biological Conservation, 2003, 112, 99-127.	4.1	297
101	A conservation plan for a global biodiversity hotspotâ€"the Cape Floristic Region, South Africa. Biological Conservation, 2003, 112, 191-216.	4.1	319
102	Title is missing!. Biological Invasions, 2002, 4, 397-412.	2.4	64
103	Determinants of distribution of six Pinus species in Catalonia, Spain. Journal of Vegetation Science, 2001, 12, 491-502.	2.2	54
104	Title is missing!. Plant Ecology, 2001, 152, 79-92.	1.6	91
105	Forestry trial data can be used to evaluate climate-based species distribution models in predicting tree invasions. NeoBiota, 0, 20, 31-48.	1.0	16
106	Native range size and growth form in Cactaceae predict invasiveness and impact. NeoBiota, 0, 30, 75-90.	1.0	32