

Mathieu Rouget

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5349769/publications.pdf>

Version: 2024-02-01

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	Integrating economic costs into conservation planning. <i>Trends in Ecology and Evolution</i> , 2006, 21, 681-687.	8.7	868
2	Preserving the evolutionary potential of floras in biodiversity hotspots. <i>Nature</i> , 2007, 445, 757-760.	27.8	787
3	Niche-based modelling as a tool for predicting the risk of alien plant invasions at a global scale. <i>Global Change Biology</i> , 2005, 11, 2234-2250.	9.5	742
4	Knowing But Not Doing: Selecting Priority Conservation Areas and the Researchâ€œImplementation Gap. <i>Conservation Biology</i> , 2008, 22, 610-617.	4.7	664
5	An operational model for mainstreaming ecosystem services for implementation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 9483-9488.	7.1	518
6	Mapping ecosystem services for planning and management. <i>Agriculture, Ecosystems and Environment</i> , 2008, 127, 135-140.	5.3	461
7	A conservation plan for a global biodiversity hotspotâ€œthe Cape Floristic Region, South Africa. <i>Biological Conservation</i> , 2003, 112, 191-216.	4.1	319
8	Formulating conservation targets for biodiversity pattern and process in the Cape Floristic Region, South Africa. <i>Biological Conservation</i> , 2003, 112, 99-127.	4.1	297
9	Residence time and potential range: crucial considerations in modelling plant invasions. <i>Diversity and Distributions</i> , 2007, 13, 11-22.	4.1	295
10	Integrating ecosystem services into conservation assessments: A review. <i>Ecological Economics</i> , 2007, 63, 714-721.	5.7	292
11	Inferring Process from Pattern in Plant Invasions: A Semimechanistic Model Incorporating Propagule Pressure and Environmental Factors. <i>American Naturalist</i> , 2003, 162, 713-724.	2.1	275
12	INTERACTIONS BETWEEN ENVIRONMENT, SPECIES TRAITS, AND HUMAN USES DESCRIBE PATTERNS OF PLANT INVASIONS. <i>Ecology</i> , 2006, 87, 1755-1769.	3.2	272
13	Humanâ€œmediated introductions of Australian acacias â€œ a global experiment in biogeography. <i>Diversity and Distributions</i> , 2011, 17, 771-787.	4.1	245
14	Spatial congruence between biodiversity and ecosystem services in South Africa. <i>Biological Conservation</i> , 2009, 142, 553-562.	4.1	240
15	Designing Large-Scale Conservation Corridors for Pattern and Process. <i>Conservation Biology</i> , 2006, 20, 549-561.	4.7	238
16	Current patterns of habitat transformation and future threats to biodiversity in terrestrial ecosystems of the Cape Floristic Region, South Africa. <i>Biological Conservation</i> , 2003, 112, 63-85.	4.1	232
17	Designing Systematic Conservation Assessments that Promote Effective Implementation: Best Practice from South Africa. <i>Conservation Biology</i> , 2006, 20, 739-750.	4.7	180
18	Rivers in peril inside and outside protected areas: a systematic approach to conservation assessment of river ecosystems. <i>Diversity and Distributions</i> , 2007, 13, 341-352.	4.1	173

#	ARTICLE	IF	CITATIONS
19	Mapping the potential ranges of major plant invaders in South Africa, Lesotho and Swaziland using climatic suitability. <i>Diversity and Distributions</i> , 2004, 10, 475-484.	4.1	163
20	Invasion debt – quantifying future biological invasions. <i>Diversity and Distributions</i> , 2016, 22, 445-456.	4.1	160
21	National-scale strategic approaches for managing introduced plants: insights from Australian acacias in South Africa. <i>Diversity and Distributions</i> , 2011, 17, 1060-1075.	4.1	157
22	Systematic conservation planning products for land-use planning: Interpretation for implementation. <i>Biological Conservation</i> , 2005, 125, 441-458.	4.1	152
23	Identifying priority areas for ecosystem service management in South African grasslands. <i>Journal of Environmental Management</i> , 2011, 92, 1642-1650.	7.8	142
24	The IUCN Red List of Ecosystems: Motivations, Challenges, and Applications. <i>Conservation Letters</i> , 2015, 8, 214-226.	5.7	141
25	Establishing IUCN Red List Criteria for Threatened Ecosystems. <i>Conservation Biology</i> , 2011, 25, 21-29.	4.7	132
26	Identifying spatial components of ecological and evolutionary processes for regional conservation planning in the Cape Floristic Region, South Africa. <i>Diversity and Distributions</i> , 2003, 9, 191-210.	4.1	130
27	An Assessment of Habitat Diversity and Transformation on La Réunion Island (Mascarene Islands). <i>Conservation Biology</i> , 2005, 14, 3015-3032.	2.6	129
28	Examining the potential of Sentinel-2 MSI spectral resolution in quantifying above ground biomass across different fertilizer treatments. <i>ISPRS Journal of Photogrammetry and Remote Sensing</i> , 2015, 110, 55-65.	11.1	128
29	The current configuration of protected areas in the Cape Floristic Region, South Africa – reservation bias and representation of biodiversity patterns and processes. <i>Biological Conservation</i> , 2003, 112, 129-145.	4.1	119
30	Potential impacts of future land use and climate change on the Red List status of the Proteaceae in the Cape Floristic Region, South Africa. <i>Global Change Biology</i> , 2005, 11, 1452-1468.	9.5	113
31	Reconstructing 50 years of <i>Opuntia stricta</i> invasion in the Kruger National Park, South Africa: environmental determinants and propagule pressure. <i>Diversity and Distributions</i> , 2004, 10, 427-437.	4.1	96
32	Title is missing!. <i>Plant Ecology</i> , 2001, 152, 79-92.	1.6	91
33	Protected-Area Boundaries as Filters of Plant Invasions. <i>Conservation Biology</i> , 2010, 25, no-no.	4.7	88
34	Nature Conservation Requires More than a Passion for Species. <i>Conservation Biology</i> , 2004, 18, 1674-1676.	4.7	87
35	Risk Assessment of Riparian Plant Invasions into Protected Areas. <i>Conservation Biology</i> , 2007, 21, 412-421.	4.7	85
36	Measuring, modeling and mapping ecosystem services in the Eastern Arc Mountains of Tanzania. <i>Progress in Physical Geography</i> , 2011, 35, 595-611.	3.2	84

#	ARTICLE	IF	CITATIONS
37	How do invasive species travel to and through urban environments?. <i>Biological Invasions</i> , 2017, 19, 3557-3570.	2.4	82
38	Measuring conservation value at fine and broad scales: implications for a diverse and fragmented region, the Agulhas Plain. <i>Biological Conservation</i> , 2003, 112, 217-232.	4.1	79
39	Species richness of alien plants in South Africa: Environmental correlates and the relationship with indigenous plant species richness. <i>Ecoscience</i> , 2005, 12, 391-402.	1.4	72
40	Current distribution and potential extent of the most invasive alien plant species on La Reunion (Indian Ocean, Mascarene islands). <i>Austral Ecology</i> , 2006, 31, 747-758.	1.5	69
41	Safeguarding Biodiversity and Ecosystem Services in the Little Karoo, South Africa. <i>Conservation Biology</i> , 2010, 24, 1021-1030.	4.7	66
42	Title is missing!. <i>Biological Invasions</i> , 2002, 4, 397-412.	2.4	64
43	Getting the biodiversity intactness index right: the importance of habitat degradation data. <i>Global Change Biology</i> , 2006, 12, 2032-2036.	9.5	63
44	Improving the Key Biodiversity Areas Approach for Effective Conservation Planning. <i>BioScience</i> , 2007, 57, 256-261.	4.9	62
45	Patterns of alien plant distribution at multiple spatial scales in a large national park: implications for ecology, management and monitoring. <i>Diversity and Distributions</i> , 2009, 15, 367-378.	4.1	58
46	Determinants of distribution of six <i>Pinus</i> species in Catalonia, Spain. <i>Journal of Vegetation Science</i> , 2001, 12, 491-502.	2.2	54
47	Understanding and managing the introduction pathways of alien taxa: South Africa as a case study. <i>Biological Invasions</i> , 2016, 18, 73-87.	2.4	54
48	A simple, rapid methodology for developing invasive species watch lists. <i>Biological Conservation</i> , 2014, 179, 25-32.	4.1	51
49	Relatedness defies biogeography: the tale of two island endemics (<i>Aca</i>) $T_j ETQq1 1 0.784314 rgBT /Overlock 10 Tf$	7.3	49
50	How to build science-action partnerships for local land-use planning and management: lessons from Durban, South Africa. <i>Ecology and Society</i> , 2016, 21, .	2.3	47
51	Estimating Biomass of Native Grass Grown under Complex Management Treatments Using WorldView-3 Spectral Derivatives. <i>Remote Sensing</i> , 2017, 9, 55.	4.0	45
52	Alien plant invasions incorporating emerging invaders in regional prioritization: A pragmatic approach for Southern Africa. <i>Journal of Environmental Management</i> , 2007, 84, 173-187.	7.8	44
53	Invasive alien plants and South African rivers: a proposed approach to the prioritization of control operations. <i>Freshwater Biology</i> , 2007, 52, 711-723.	2.4	42
54	Developing products for conservation decision making: lessons from a spatial biodiversity assessment for South Africa. <i>Diversity and Distributions</i> , 2007, 13, 608-619.	4.1	42

#	ARTICLE	IF	CITATIONS
55	Identifying and mapping biodiversity processes for conservation planning in islands: A case study in Réunion Island (Western Indian Ocean). <i>Biological Conservation</i> , 2009, 142, 1523-1535.	4.1	41
56	Comparing the spectral settings of the new generation broad and narrow band sensors in estimating biomass of native grasses grown under different management practices. <i>GIScience and Remote Sensing</i> , 2016, 53, 614-633.	5.9	41
57	Plant invasions as a biogeographical assay: Vegetation biomes constrain the distribution of invasive alien species assemblages. <i>South African Journal of Botany</i> , 2015, 101, 24-31.	2.5	38
58	Integrating freshwater and terrestrial priorities in conservation planning. <i>Biological Conservation</i> , 2009, 142, 2217-2226.	4.1	37
59	Towards Place-Based Research to Support Social Ecological Stewardship. <i>Sustainability</i> , 2018, 10, 1434.	3.2	37
60	Discriminating Rangeland Management Practices Using Simulated HypsPRLI, Landsat 8 OLI, Sentinel 2 MSI, and VENUS Spectral Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2016, 9, 3957-3969.	4.9	36
61	The Biogeography of South African Terrestrial Plant Invasions. , 2020, , 67-96.		34
62	Mapping Grazing-Induced Degradation in a Semi-Arid Environment: A Rapid and Cost Effective Approach for Assessment and Monitoring. <i>Environmental Management</i> , 2009, 43, 585-596.	2.7	33
63	Impacts of past habitat loss and future climate change on the range dynamics of South African Proteaceae. <i>Diversity and Distributions</i> , 2013, 19, 363-376.	4.1	33
64	Evaluating Private Land Conservation in the Cape Lowlands, South Africa. <i>Conservation Biology</i> , 2010, 24, 1182-1189.	4.7	32
65	Exploring the potential of <i>in situ</i> hyperspectral data and multivariate techniques in discriminating different fertilizer treatments in grasslands. <i>Journal of Applied Remote Sensing</i> , 2015, 9, 096033.	1.3	32
66	Native range size and growth form in Cactaceae predict invasiveness and impact. <i>NeoBiota</i> , 0, 30, 75-90.	1.0	32
67	Identifying ecosystem service hotspots for environmental management in Durban, South Africa. <i>Bothalia</i> , 2016, 46, .	0.3	30
68	Testing the capabilities of the new WorldView-3 space-borne sensor's red-edge spectral band in discriminating and mapping complex grassland management treatments. <i>International Journal of Remote Sensing</i> , 2017, 38, 1-22.	2.9	29
69	The balance of trade in alien species between South Africa and the rest of Africa. <i>Bothalia</i> , 2017, 47, .	0.3	29
70	Pollination ecosystem services in South African agricultural systems. <i>South African Journal of Science</i> , 2014, 110, 9.	0.7	28
71	Integrating conservation, restoration and land-use planning in islands: An illustrative case study in Réunion Island (Western Indian Ocean). <i>Landscape and Urban Planning</i> , 2011, 101, 120-130.	7.5	27
72	Using Natural Experiments in the Study of Alien Tree Invasions: Opportunities and Limitations. , 2004, , 180-201.		25

#	ARTICLE	IF	CITATIONS
73	Mapping alien and indigenous vegetation in the KwaZulu-Natal Sandstone Sourveld using remotely sensed data. <i>Bothalia</i> , 2016, 46, .	0.3	22
74	Predicting Incursion of Plant Invaders into Kruger National Park, South Africa: The Interplay of General Drivers and Species-Specific Factors. <i>PLoS ONE</i> , 2011, 6, e28711.	2.5	21
75	Managing a threatened savanna ecosystem (KwaZulu-Natal Sandstone Sourveld) in an urban biodiversity hotspot: Durban, South Africa. <i>Bothalia</i> , 2016, 46, .	0.3	21
76	meaning and practice of stewardship in South Africa. <i>South African Journal of Science</i> , 2019, 115, .	0.7	20
77	Collaborative stewardship in multifunctional landscapes: toward relational, pluralistic approaches. <i>Ecology and Society</i> , 2019, 24, .	2.3	20
78	Prioritising surveillance for alien organisms transported as stowaways on ships travelling to South Africa. <i>PLoS ONE</i> , 2017, 12, e0173340.	2.5	20
79	Measuring the effectiveness of regional conservation assessments at representing biodiversity surrogates at a local scale: A case study in Reunion Island (Indian Ocean). <i>Austral Ecology</i> , 2010, 35, 121-133.	1.5	16
80	Quantifying invasion degree by alien plants species in Reunion Island. <i>Austral Ecology</i> , 2021, 46, 1025-1037.	1.5	16
81	Forestry trial data can be used to evaluate climate-based species distribution models in predicting tree invasions. <i>NeoBiota</i> , 0, 20, 31-48.	1.0	16
82	Why are woody plants fleshy-fruited at low elevations? Evidence from a high-elevation oceanic island. <i>Journal of Vegetation Science</i> , 2018, 29, 847-858.	2.2	13
83	Relational Hubs for Collaborative Landscape Stewardship. <i>Society and Natural Resources</i> , 2020, 33, 681-693.	1.9	13
84	Landscape connectivity of the grassland biome in Mpumalanga, South Africa. <i>Austral Ecology</i> , 2015, 40, 67-76.	1.5	12
85	Evaluating the outcomes and processes of a research-action partnership: The need for continuous reflective evaluation. <i>Bothalia</i> , 2016, 46, .	0.3	12
86	Effect of Land Cover and Ecosystem Mapping on Ecosystem Risk Assessment in the Little Karoo, South Africa. <i>Conservation Biology</i> , 2013, 27, 531-541.	4.7	11
87	An Assessment of a Community-Based, Forest Restoration Programme in Durban (eThekweni), South Africa. <i>Forests</i> , 2017, 8, 255.	2.1	11
88	Restoration planning for climate change mitigation and adaptation in the city of Durban, South Africa. <i>International Journal of Biodiversity Science, Ecosystem Services & Management</i> , 2018, 14, 132-144.	2.9	11
89	Spatial analyses of threats to ecosystem service hotspots in Greater Durban, South Africa. <i>PeerJ</i> , 2018, 6, e5723.	2.0	11
90	An assessment of the information content of South African alien species databases. <i>Bothalia</i> , 2015, 45, .	0.3	10

#	ARTICLE	IF	CITATIONS
91	Rapid prioritization of alien plants for eradication based on climatic suitability and eradication feasibility. <i>Austral Ecology</i> , 2017, 42, 995-1005.	1.5	9
92	Civic Ecology Uplifts Low-Income Communities, Improves Ecosystem Services and Well-Being, and Strengthens Social Cohesion. <i>Sustainability</i> , 2021, 13, 1300.	3.2	9
93	The Importance of Grasslands in Providing Ecosystem Services. , 2016, , 421-441.		9
94	Border control for stowaway alien species should be prioritised based on variations in establishment debt. <i>Journal of Environmental Management</i> , 2016, 180, 301-309.	7.8	8
95	Diversity of pollen sources used by managed honey bees in variegated landscapes. <i>Journal of Apicultural Research</i> , 2020, 59, 988-999.	1.5	8
96	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. <i>Journal of Environmental Management</i> , 2022, 302, 113966.	7.8	8
97	Tourists' perceptions and willingness to pay for the control of <i>Opuntia stricta</i> invasion in protected areas: A case study from South Africa. <i>Koedoe</i> , 2014, 56, .	0.9	7
98	A spatial and temporal assessment of fire regimes on different vegetation types using MODIS burnt area products. <i>Bothalia</i> , 2016, 46, .	0.3	7
99	Assessing the role of dispersed floral resources for managed bees in providing supporting ecosystem services for crop pollination. <i>PeerJ</i> , 2018, 6, e5654.	2.0	7
100	Assessing habitat fragmentation of the KwaZulu-Natal Sandstone Sourveld, a threatened ecosystem. <i>Bothalia</i> , 2016, 46, .	0.3	6
101	Adaptive management in restoration initiatives: Lessons learned from some of South Africa's projects. <i>South African Journal of Botany</i> , 2021, 139, 352-361.	2.5	5
102	Improving the management of threatened ecosystems in an urban biodiversity hotspot through the Durban Research Action Partnership. <i>Bothalia</i> , 2023, 46, .	0.3	3
103	An assessment of biological control of <i>Rubus alceifolius</i> invasion on Réunion Island (Mascarene) Tj ETQq1 1 0.784314 rgBT/Overlo	3.0	2
104	Response to Hockley: The merit of economic and biological measures in conservation planning. <i>Trends in Ecology and Evolution</i> , 2007, 22, 287-288.	8.7	0
105	Can an El Niño induced drought hamper the reforestation of the subtropical forest?. <i>South African Journal of Botany</i> , 2021, 141, 152-157.	2.5	0
106	Improving the management of threatened ecosystems in an urban biodiversity hotspot through the Durban Research Action Partnership. <i>Bothalia</i> , 2016, 46, .	0.3	0