Graciela Isabel Metternicht

List of Publications by Year
in descending order

69 papers	4,858 citations	201385 27 h-index	143772 57 g-index
75 all docs	75 docs citations	75 times ranked	5441 citing authors

#	Article	IF	Citations
1	Remote sensing of soil salinity: potentials and constraints. Remote Sensing of Environment, 2003, 85, 1-20.	4.6	866
2	Testing the performance of spatial interpolation techniques for mapping soil properties. Computers and Electronics in Agriculture, 2006, 50, 97-108.	3.7	409
3	Land in balance: The scientific conceptual framework for Land Degradation Neutrality. Environmental Science and Policy, 2018, 79, 25-35.	2.4	403
4	Remote sensing of landslides: An analysis of the potential contribution to geo-spatial systems for hazard assessment in mountainous environments. Remote Sensing of Environment, 2005, 98, 284-303.	4.6	400
5	Prioritising SDG targets: assessing baselines, gaps and interlinkages. Sustainability Science, 2019, 14, 421-438.	2.5	349
6	Initial progress in implementing the Sustainable Development Goals (SDGs): a review of evidence from countries. Sustainability Science, 2018, 13, 1453-1467.	2.5	306
7	National pathways to the Sustainable Development Goals (SDGs): A comparative review of scenario modelling tools. Environmental Science and Policy, 2016, 66, 199-207.	2.4	203
8	Ten facts about land systems for sustainability. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	157
9	Marine Spatial Planning advancing the Ecosystem-Based Approach to coastal zone management: A review. Marine Policy, 2016, 72, 115-130.	1.5	147
10	Vegetation indices derived from high-resolution airborne videography for precision crop management. International Journal of Remote Sensing, 2003, 24, 2855-2877.	1.3	142
11	Assessing temporal and spatial changes of salinity using fuzzy logic, remote sensing and GIS. Foundations of an expert system. Ecological Modelling, 2001, 144, 163-179.	1.2	115
12	Unpacking the concept of land degradation neutrality and addressing its operation through the Rio Conventions. Journal of Environmental Management, 2017, 195, 4-15.	3.8	115
13	Indicator-based assessments of progress towards the sustainable development goals (SDGs): a case study from the Arab region. Sustainability Science, 2017, 12, 975-989.	2.5	100
14	Estimating Erosion Surface Features by Linear Mixture Modeling. Remote Sensing of Environment, 1998, 64, 254-265.	4.6	69
15	Evaluating the information content of JERS-1 SAR and Landsat TM data for discrimination of soil erosion features. ISPRS Journal of Photogrammetry and Remote Sensing, 1998, 53, 143-153.	4.9	68
16	Remote Sensing of Land Degradation: Experiences from Latin America and the Caribbean. Journal of Environmental Quality, 2010, 39, 42-61.	1.0	66
17	Change detection assessment using fuzzy sets and remotely sensed data: an application of topographic map revision. ISPRS Journal of Photogrammetry and Remote Sensing, 1999, 54, 221-233.	4.9	64
18	Geomorphometric landscape analysis using a semi-automated GIS-approach. Environmental Modelling and Software, 2008, 23, 109-121.	1.9	64

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19	FUERO: foundations of a fuzzy exploratory model for soil erosion hazard prediction. Environmental Modelling and Software, 2005, 20, 715-728.	1.9	58
20	Assessing effectiveness of WEEE management policy in Australia. Journal of Environmental Management, 2016, 181, 218-230.	3.8	55
21	An Iterative Framework for National Scenario Modelling for the Sustainable Development Goals (SDGs). Sustainable Development, 2017, 25, 372-385.	6.9	50
22	Fuzzy classification of JERS-1 SAR data: an evaluation of its performance for soil salinity mapping. Ecological Modelling, 1998, 111, 61-74.	1.2	47
23	Comparing the performance of techniques to improve the quality of yield maps. Agricultural Systems, 2005, 85, 19-41.	3.2	47
24	Mapping and modelling mass movements and gullies in mountainous areas using remote sensing and GIS techniques. International Journal of Applied Earth Observation and Geoinformation, 2001, 3, 43-53.	1.4	46
25	Comparison of alternative strategies for invasive species distribution modeling. Ecological Modelling, 2010, 221, 2261-2269.	1.2	37
26	Categorical fuzziness: a comparison between crisp and fuzzy class boundary modelling for mapping salt-affected soils using Landsat TM data and a classification based on anion ratios. Ecological Modelling, 2003, 168, 371-389.	1.2	35
27	An Analysis of Consumer Incentives in Support of Electric Vehicle Uptake: An Australian Case Study. World Electric Vehicle Journal, 2019, 10, 11.	1.6	32
28	Agricultural Applications of High-Resolution Digital Multispectral Imagery. Photogrammetric Engineering and Remote Sensing, 2005, 71, 595-602.	0.3	26
29	Assessing the spatial extent of dryland salinity through fuzzy modeling. Ecological Modelling, 2006, 193, 387-411.	1.2	26
30	Understanding Dynamics of Mangrove Forest on Protected Areas of Hainan Island, China: 30 Years of Evidence from Remote Sensing. Sustainability, 2019, 11, 5356.	1.6	23
31	Land Cover Mapping using Digital Earth Australia. Data, 2019, 4, 143.	1.2	23
32	Increasing Electric Vehicle Uptake by Updating Public Policies to Shift Attitudes and Perceptions: Case Study of New Zealand. Energies, 2021, 14, 2920.	1.6	21
33	Radar Remote Sensing of Windâ€Driven Land Degradation Processes in Northeastern Patagonia. Journal of Environmental Quality, 2010, 39, 62-75.	1.0	20
34	Climate change vulnerability, impact and adaptation assessment. International Journal of Climate Change Strategies and Management, 2014, 6, 442-476.	1.5	20
35	Promoting co-benefits of carbon farming in Oceania: Applying and adapting approaches and metrics from existing market-based schemes. Ecosystem Services, 2019, 39, 100982.	2.3	18
36	Implementing land degradation neutrality: From policy challenges to policy opportunities for national sustainable development. Environmental Science and Policy, 2019, 100, 189-191.	2.4	17

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37	Carbon farming for resilient rangelands: people, paddocks and policy. Rangeland Journal, 2020, 42, 293.	0.4	16
38	Ecological site classification of semiarid rangelands: Synergistic use of Landsat and Hyperion imagery. International Journal of Applied Earth Observation and Geoinformation, 2014, 29, 11-21.	1.4	15
39	Improving the discrimination of vegetation and landform patterns in sandy rangelands: a synergistic approach. International Journal of Remote Sensing, 2009, 30, 2579-2605.	1.3	14
40	Accelerating electric vehicle uptake: Modelling public policy options on prices and infrastructure. Transportation Research, Part A: Policy and Practice, 2022, 162, 155-174.	2.0	13
41	Towards a Deep-Learning-Based Framework of Sentinel-2 Imagery for Automated Active Fire Detection. Remote Sensing, 2021, 13, 4790.	1.8	12
42	Linking Changes in Land Cover and Land Use of the Lower Mekong Basin to Instream Nitrate and Total Suspended Solids Variations. Sustainability, 2020, 12, 2992.	1.6	11
43	Living Earth: Implementing national standardised land cover classification systems for Earth Observation in support of sustainable development. Big Earth Data, 2021, 5, 368-390.	2.0	11
44	The role of electric vehicles in decarbonising Australiaâ€™s road transport sector: modelling ambitious scenarios. Energy Policy, 2022, 168, 113144.	4.2	11
45	The Performance of Fuzzy Operators on Fuzzy Classification of Urban Land Covers. Photogrammetric Engineering and Remote Sensing, 2005, 71, 59-68.	0.3	9
46	Spectral Behavior of Salt Types. , 2008, , .		9
47	Digital Earth for Sustainable Development Goals. , 2020, , 443-471.		9
48	Assessing the Impact of Science in the Implementation of the United Nations Convention to Combat Desertification. Land, 2022, 11, 568.	1.2	9
49	Review of Remote Sensing-Based Methods to Assess Soil Salinity. , 2008, , .		8
50	Advancing Environmental Mainstreaming in the Caribbean Region: The Role of Regional Institutions for Overcoming Barriers and Capacity Gaps. Sustainability, 2015, 7, 13836-13855.	1.6	8
51	Soil Salinity and Salinization Hazard. , 2008, , .		7
52	From Importing Innovations to Co-Producing Them: Transdisciplinary Approaches to the Development of Online Land Management Tools. Technology Innovation Management Review, 2018, 8, 16-26.	1.0	7
53	Electric Vehicle Uptake: Understanding the Print Mediaâ€™s Role in Changing Attitudes and Perceptions. World Electric Vehicle Journal, 2021, 12, 174.	1.6	7
54	Understanding patterns of information sourcing and motivations to collaborate among absentee landholders: A case study of the Central Tablelands, NSW. Environmental Science and Policy, 2020, 107, 188-197.	2.4	6

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55	Challenges, solutions and research priorities for sustainable rangelands. Rangeland Journal, 2020, 42, 359.	0.4	6
56	Transboundary river basins: Scenarios of hydropower development and operation under extreme climate conditions. Science of the Total Environment, 2022, 803, 149828.	3.9	5
57	â€˜This country just hangs tightâ€™: perspectives on managing land degradation and climate change in far west NSW. Rangeland Journal, 2019, 41, 197.	0.4	5
58	Understanding the Social Licence of Carbon Farming in the Australian Rangelands. Sustainability, 2022, 14, 174.	1.6	3
59	Synergistic use of Landsat and Hyperion imageries for ecological site classification in rangelands. , 2010, , .		2
60	Simulation of streamflow and instream loads of total suspended solids and nitrate in a large transboundary river basin using Source model and geospatial analysis. Science of the Total Environment, 2020, 744, 140656.	3.9	2
61	Commentary: on the under-valuing of Australiaâ€™s expertise in drylands research and practice globally. Rangeland Journal, 2020, 42, 253.	0.4	2
62	Modelling soil erosion hazard by using a fuzzy knowledge-based approach. , 0, , .		1
63	Spectral unmixing and mapping of surface features related to soil erosion. , 0, , .		1
64	Four-Dimensional Visualisation of Smog in Perth. Journal of Spatial Science, 1998, 27, 47-54.	0.2	1
65	Exploring the Feasibility of a Web-based System for Farmers Access to Current Agricultural Research Information in Western Australia. Journal of Spatial Science, 2002, 31, 87-98.	0.2	1
66	Fractal dimension of multiscale and multisource remote sensing data for characterising spatial complexity of urban landscapes. , 0, , .		1
67	Using Market-Based Instruments to Enhance Climate Resilience. , 2020, , 1-27.		1
68	Fuzzy supervised classification of JERS-1 SAR data for soil salinity studies. , 0, , .		0
69	Using Market-Based Instruments to Enhance Climate Resilience. , 2021, , 2163-2189.		0