

Rodolphe Devillers

List of Publications by Year in descending order

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Version: 2024-02-01

75
papers

2,322
citations

279701

23
h-index

243529

44
g-index

82
all docs

82
docs citations

82
times ranked

3361
citing authors

#	ARTICLE	IF	CITATIONS
1	Reinventing residual reserves in the sea: are we favouring ease of establishment over need for protection?. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2015, 25, 480-504.	0.9	280
2	A Roadmap for Using the UN Decade of Ocean Science for Sustainable Development in Support of Science, Policy, and Action. <i>One Earth</i> , 2020, 2, 34-42.	3.6	191
3	GIS-Based Multiple-Criteria Decision Analysis. <i>Geography Compass</i> , 2011, 5, 412-432.	1.5	189
4	Spatial scale and geographic context in benthic habitat mapping: review and future directions. <i>Marine Ecology - Progress Series</i> , 2015, 535, 259-284.	0.9	127
5	Systematic Conservation Planning: A Better Recipe for Managing the High Seas for Biodiversity Conservation and Sustainable Use. <i>Conservation Letters</i> , 2014, 7, 41-54.	2.8	110
6	Towards spatial data quality information analysis tools for experts assessing the fitness for use of spatial data. <i>International Journal of Geographical Information Science</i> , 2007, 21, 261-282.	2.2	91
7	Distribution of dinoflagellate cysts in surface sediments of the northern North Atlantic in relation to nutrient content and productivity in surface waters. <i>Marine Geology</i> , 2000, 166, 103-124.	0.9	90
8	Thirty Years of Research on Spatial Data Quality: Achievements, Failures, and Opportunities. <i>Transactions in GIS</i> , 2010, 14, 387-400.	1.0	84
9	Exploring spatial non-stationarity of fisheries survey data using geographically weighted regression (GWR): an example from the Northwest Atlantic. <i>ICES Journal of Marine Science</i> , 2010, 67, 145-154.	1.2	71
10	Towards a framework for terrain attribute selection in environmental studies. <i>Environmental Modelling and Software</i> , 2017, 89, 19-30.	1.9	69
11	Multidimensional Management of Geospatial Data Quality Information for its Dynamic Use Within GIS. <i>Photogrammetric Engineering and Remote Sensing</i> , 2005, 71, 205-215.	0.3	62
12	Better integration of sectoral planning and management approaches for the interlinked ecology of the open oceans. <i>Marine Policy</i> , 2014, 49, 127-136.	1.5	53
13	Comparing Selections of Environmental Variables for Ecological Studies: A Focus on Terrain Attributes. <i>PLoS ONE</i> , 2016, 11, e0167128.	1.1	46
14	An approach to GIS-based multiple criteria decision analysis that integrates exploration and evaluation phases: Case study in a forest-dominated landscape. <i>Forest Ecology and Management</i> , 2010, 260, 2102-2114.	1.4	44
15	How the race to achieve Aichi Target 11 could jeopardize the effective conservation of biodiversity in Canada and beyond. <i>Marine Policy</i> , 2019, 99, 312-323.	1.5	43
16	Benefits and gaps in area-based management tools for the ocean Sustainable Development Goal. <i>Nature Sustainability</i> , 2021, 4, 349-357.	11.5	38
17	Noise exposure from commercial shipping for the southern resident killer whale population. <i>Marine Pollution Bulletin</i> , 2018, 136, 177-200.	2.3	37
18	Quality and usability challenges of global marine biodiversity databases: An example for marine mammal data. <i>Ecological Informatics</i> , 2020, 56, 101051.	2.3	34

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19	Influence of artefacts in marine digital terrain models on habitat maps and species distribution models: a multiscale assessment. <i>Remote Sensing in Ecology and Conservation</i> , 2017, 3, 232-246.	2.2	32
20	Improving Volunteered Geographic Information Quality Using a Tag Recommender System: The Case of OpenStreetMap. <i>Lecture Notes in Geoinformation and Cartography</i> , 2015, , 59-80.	0.5	31
21	The global information system on small-scale fisheries (ISSF): A crowdsourced knowledge platform. <i>Marine Policy</i> , 2019, 101, 158-166.	1.5	31
22	Approaches to Uncertainty in Spatial Data. , 0, , 43-59.		29
23	Canada at a crossroad: The imperative for realigning ocean policy with ocean science. <i>Marine Policy</i> , 2016, 63, 53-60.	1.5	28
24	Marine habitat mapping in support of Marine Protected Area management in a subarctic fjord: Gilbert Bay, Labrador, Canada. <i>Journal of Coastal Conservation</i> , 2013, 17, 225-237.	0.7	26
25	How far have we come? A review of MPA network performance indicators in reaching qualitative elements of Aichi Target 11. <i>Conservation Letters</i> , 2020, 13, e12746.	2.8	23
26	Spatio-temporal variations in invertebrate~cod~environment relationships on the Newfoundland~Labrador Shelf, 1995~2009. <i>Marine Ecology - Progress Series</i> , 2012, 469, 263-278.	0.9	21
27	Artefacts in Marine Digital Terrain Models: A Multiscale Analysis of Their Impact on the Derivation of Terrain Attributes. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5391-5406.	2.7	19
28	Geographic Visualization in Archaeology. <i>Journal of Archaeological Method and Theory</i> , 2017, 24, 852-885.	1.4	18
29	From Movement Data to Objects Behavior Using Semantic Trajectory and Semantic Events. <i>Marine Geodesy</i> , 2014, 37, 126-144.	0.9	17
30	Ecological segregation among Thick-billed Murres (<i>Uria lomvia</i>) and Common Murres (<i>Uria aalge</i>) in the Northwest Atlantic persists through the nonbreeding season. <i>Canadian Journal of Zoology</i> , 2015, 93, 447-460.	0.4	17
31	Residual marine protected areas five years on: Are we still favouring ease of establishment over need for protection?. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2020, 30, 1758-1764.	0.9	17
32	Interactive exploration of movement data: A case study of geovisual analytics for fishing vessel analysis. <i>Information Visualization</i> , 2013, 12, 65-84.	1.2	16
33	Generating higher resolution regional seafloor maps from crowd-sourced bathymetry. <i>PLoS ONE</i> , 2019, 14, e0216792.	1.1	16
34	High-resolution seafloor mapping to describe coastal denning habitat of a Canadian species at risk: Atlantic wolffish (<i>Anarhichas lupus</i>). <i>Canadian Journal of Fisheries and Aquatic Sciences</i> , 2017, 74, 2073-2084.	0.7	15
35	Spatial Data Quality: Concepts. , 0, , 31-42.		13
36	How fisher~influenced marine closed areas contribute to ecosystem~based management: A review and performance indicator scorecard. <i>Fish and Fisheries</i> , 2017, 18, 860-876.	2.7	13

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37	Exploring geo-temporal differences using GTdiff. , 2011, , .		12
38	Navigating spatio-temporal data with temporal zoom and pan in a multi-touch environment. International Journal of Geographical Information Science, 2014, 28, 1128-1148.	2.2	12
39	Atlantic cod (<i>Gadus morhua</i>) distribution response to environmental variability in the northern Gulf of St. Lawrence. Canadian Journal of Fisheries and Aquatic Sciences, 2009, 66, 909-918.	0.7	11
40	Limited Contribution of Small Marine Protected Areas to Regional Biodiversity: The Example of a Small Canadian No-Take MPA. Frontiers in Marine Science, 2017, 4, .	1.2	11
41	The life cycle of contributors in collaborative online communities -the case of OpenStreetMap. International Journal of Geographical Information Science, 2018, 32, 1611-1630.	2.2	11
42	An Operation-Based Communication of Spatial Data Quality. , 2009, , .		10
43	Comparing interactive and automated mapping systems for supporting fisheries enforcement activitiesâ€”a case study on vessel monitoring systems (VMS). Journal of Coastal Conservation, 2013, 17, 105-119.	0.7	10
44	Contributorsâ€™™ Withdrawal from Online Collaborative Communities: The Case of OpenStreetMap. ISPRS International Journal of Geo-Information, 2017, 6, 340.	1.4	10
45	Vessel noise in spatially constricted areas: Modeling acoustic footprints of large vessels in the Cabot Strait, Eastern Canada. Ocean and Coastal Management, 2020, 194, 105255.	2.0	10
46	Predictive distribution modelling of cold-water corals in the Newfoundland and Labrador region. Marine Ecology - Progress Series, 2017, 582, 57-77.	0.9	10
47	Contributorsâ€™™ enrollment in collaborative online communities: the case of OpenStreetMap. Geo-Spatial Information Science, 2017, 20, 282-295.	2.4	9
48	Fine-scale habitat characterization of The Gully, the Flemish Cap, and the Orphan Knoll, Northwest Atlantic, with a focus on cold-water corals. , 2020, , 735-751.		9
49	Spatial Data Quality: From Process to Decisions. Transactions in GIS, 2010, 14, 379-386.	1.0	8
50	Environmental mediation of Atlantic cod on fish community composition: an application of multivariate regression tree analysis to exploited marine ecosystems. Marine Ecology - Progress Series, 2010, 411, 189-201.	0.9	8
51	Visualizing perceived spatial data quality of 3D objects within virtual globes. International Journal of Digital Earth, 2014, 7, 771-788.	1.6	7
52	Delineating marine ecological units: a novel approach for deciding which taxonomic group to use and which taxonomic resolution to choose. Diversity and Distributions, 2015, 21, 1167-1180.	1.9	7
53	Canada's uncharted conservation approach. Science, 2019, 364, 1243-1243.	6.0	7
54	Geovisualization tools to inform the management of vessel noise in support of species' conservation. Ocean and Coastal Management, 2019, 169, 113-128.	2.0	7

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55	Mapping fishers'™ perceptions of marine conservation in Brazil: An exploratory approach. <i>Ocean and Coastal Management</i> , 2019, 167, 32-41.	2.0	7
56	Representation does not necessarily reduce threats to biodiversity: Australia's Commonwealth marine protected area system, 2012â€“2018. <i>Biological Conservation</i> , 2020, 252, 108813.	1.9	7
57	Integrating fine-scale seafloor mapping and spatial pattern metrics into marine conservation prioritization. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2020, 30, 1613-1625.	0.9	7
58	Seafloor mapping to support conservation planning in an ecologically unique fjord in Newfoundland and Labrador, Canada. <i>Journal of Coastal Conservation</i> , 2020, 24, 1.	0.7	7
59	Beyond the Basics: Improving Information About Small-Scale Fisheries. <i>MARE Publication Series</i> , 2019, , 377-395.	0.2	7
60	Comparing surficial sediments maps interpreted by experts with dual-frequency acoustic backscatter on the Scotian Shelf, Canada. <i>Continental Shelf Research</i> , 2015, 110, 149-161.	0.9	6
61	Incentivizing More Effective Marine Protected Areas with the Global Ocean Refuge System (GLORES). <i>Frontiers in Marine Science</i> , 2017, 4, .	1.2	6
62	Bridging theory and practice in ecosystem services mapping: a systematic review. <i>Environment Systems and Decisions</i> , 2022, 42, 103-116.	1.9	6
63	Science should not be left behind during the design of a marine protected area: meeting conservation priorities while integrating stakeholder interests. <i>Facets</i> , 2019, 4, 472-492.	1.1	5
64	Visually representing geo-temporal differences. , 2010, , .		4
65	MERLIN - A decade of large AUV experience at Memorial University of Newfoundland. , 2016, , .		4
66	Indicateurs de qualit� pour r�duire les risques de mauvaise utilisation des donn�es g�ospatiales. <i>Revue Internationale De G�omatique</i> , 2004, 14, 35-57.	0.2	4
67	Geomorphic Features and Benthic Habitats of a Sub-Arctic Fjord. , 2012, , 309-327.		3
68	The development of AUV strategies for multidisciplinary use. , 2014, , .		3
69	Towards marine Geographic Information Systems: Multidimensional representation of fish aggregations and their spatiotemporal evolutions. , 2008, , .		2
70	Detecting anomalies in spatiotemporal data using genetic algorithms with fuzzy community membership. , 2010, , .		2
71	Partially Ordered Preferences Applied to the Site Location Problem in Urban Planning. <i>Lecture Notes in Computer Science</i> , 2004, , 151-160.	1.0	2
72	Communication and Use of Spatial Data Quality Information in GIS. , 0, , 237-253.		1

#	ARTICLE	IF	CITATIONS
73	Large network analysis for fisheries management using coevolutionary genetic algorithms. , 2011, , .		1
74	Parallel exhaustive search vs. evolutionary computation in a large real world network search space. , 2012, , .		0
75	Presidentâ€™s Report / Rapport du prÃ©sident. Geomatica, 2016, 70, 263-264.	0.5	0