

Serge Andr  fou  t

List of Publications by Year in descending order

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107
papers

5,126
citations

94433

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times ranked

5066
citing authors

#	ARTICLE	IF	CITATIONS
1	Indonesia's 13558 islands: A new census from space and a first step towards a One Map for Small Islands Policy. <i>Marine Policy</i> , 2022, 135, 104848.	3.2	8
2	Spatial Solutions and Their Impacts When Reshuffling Coastal Management Priorities in Small Islands with Limited Diversification Opportunities. <i>Sustainability</i> , 2022, 14, 3871.	3.2	6
3	A systematic prioritization approach for identifying suitable pearl oyster restocking zones following a mass mortality event in Takarua Atoll, French Polynesia. <i>Marine Pollution Bulletin</i> , 2022, 176, 113472.	5.0	7
4	The MANA (MANagement of Atolls, 2017-2022) project for pearl oyster aquaculture management in the Central Pacific Ocean using modelling approaches: Overview of first results. <i>Marine Pollution Bulletin</i> , 2022, 178, 113649.	5.0	4
5	Periodicity of wave-driven flows and lagoon water renewal for 74 Central Pacific Ocean atolls. <i>Marine Pollution Bulletin</i> , 2022, 179, 113748.	5.0	8
6	Remote sensing provides new insights on phytoplankton biomass dynamics and black pearl oyster life-history traits in a Pacific Ocean deep atoll. <i>Marine Pollution Bulletin</i> , 2022, 181, 113863.	5.0	2
7	Hindcast and Near Real-Time Monitoring of Green Macroalgae Blooms in Shallow Coral Reef Lagoons Using Sentinel-2: A New-Caledonia Case Study. <i>Remote Sensing</i> , 2021, 13, 211.	4.0	14
8	A framework for mapping local knowledge on ciguatera and artisanal fisheries to inform systematic conservation planning. <i>ICES Journal of Marine Science</i> , 2021, 78, 1357-1371.	2.5	8
9	An appraisal of systematic conservation planning for Pacific Ocean Tropical Islands coastal environments. <i>Marine Pollution Bulletin</i> , 2021, 165, 112131.	5.0	7
10	Seagrass ecosystems of the Pacific Island Countries and Territories: A global bright spot. <i>Marine Pollution Bulletin</i> , 2021, 167, 112308.	5.0	12
11	Seaweed farming collapse and fast changing socio-ecosystems exacerbated by tourism and natural hazards in Indonesia: A view from space and from the households of Nusa Lembongan island. <i>Ocean and Coastal Management</i> , 2021, 207, 105586.	4.4	11
12	Understanding connectivity of pearl oyster populations within Tuamotu atoll semi-closed lagoons: Cumulative insight from genetics and biophysical modelling approaches. <i>Marine Pollution Bulletin</i> , 2021, 167, 112324.	5.0	7
13	Tide and wave driven flow across the rim reef of the atoll of Raroia (Tuamotu, French Polynesia). <i>Marine Pollution Bulletin</i> , 2021, 171, 112718.	5.0	8
14	Shallow Water Bathymetry Retrieval Using a Band-Optimization Iterative Approach: Application to New Caledonia Coral Reef Lagoons Using Sentinel-2 Data. <i>Remote Sensing</i> , 2021, 13, 4108.	4.0	9
15	Nation-wide hierarchical and spatially-explicit framework to characterize seagrass meadows in New-Caledonia, and its potential application to the Indo-Pacific. <i>Marine Pollution Bulletin</i> , 2021, 173, 113036.	5.0	6
16	Monitoring pearl farming lagoon temperature with global high resolution satellite-derived products: An evaluation using Raroia Atoll, French Polynesia. <i>Marine Pollution Bulletin</i> , 2020, 160, 111576.	5.0	11
17	The lagoon geomorphology of pearl farming atolls in the Central Pacific Ocean revisited using detailed bathymetry data. <i>Marine Pollution Bulletin</i> , 2020, 160, 111580.	5.0	15
18	Impact of environmental variability on <i>Pinctada margaritifera</i> life-history traits: A full life cycle deb modeling approach. <i>Ecological Modelling</i> , 2020, 423, 109006.	2.5	22

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19	Phylogeographical patterns and a cryptic species provide new insights into Western Indian Ocean giant clams phylogenetic relationships and colonization history. <i>Journal of Biogeography</i> , 2020, 47, 1086-1105.	3.0	22
20	Role of habitat definition on Aichi Target 11: Examples from New Caledonian coral reefs. <i>Marine Policy</i> , 2020, 116, 103951.	3.2	17
21	Population Connectivity and Genetic Assessment of Exploited and Natural Populations of Pearl Oysters within a French Polynesian Atoll Lagoon. <i>Genes</i> , 2020, 11, 426.	2.4	11
22	Understanding consequences of adaptive monitoring protocols on data consistency: application to the monitoring of giant clam densities impacted by massive mortalities in Tuamotu atolls, French Polynesia. <i>ICES Journal of Marine Science</i> , 2019, 76, 1062-1071.	2.5	0
23	Estimation of physical and physiological performances of blacklip pearl oyster larvae in view of DEB modeling and recruitment assessment. <i>Journal of Experimental Marine Biology and Ecology</i> , 2019, 512, 42-50.	1.5	11
24	Beyond the reef: The widespread use of non-reef habitats by coral reef fishes. <i>Fish and Fisheries</i> , 2019, 20, 903-920.	5.3	43
25	Phylogeography of Noah's giant clam. <i>Marine Biodiversity</i> , 2019, 49, 521-526.	1.0	7
26	Scaling tropical island conservation planning to the regional level can lead to unbalanced ecological representation and poor social equity among islands. <i>Marine Policy</i> , 2018, 93, 31-39.	3.2	7
27	Adaptive management for the sustainable exploitation of lagoon resources in remote islands: lessons from a massive El Niño-induced giant clam bleaching event in the Tuamotu atolls (French Polynesia). <i>Environmental Conservation</i> , 2018, 45, 30-40.	1.3	24
28	Assembly rules of fish communities in Tuamotu archipelago atoll lagoons: The case of Fangatau, a lagoon dominated by giant clam habitats. <i>Marine Biodiversity</i> , 2018, 48, 2215-2224.	1.0	1
29	Challenges in rendering Coral Triangle habitat richness in remotely sensed habitat maps: The case of Bunaken Island (Indonesia). <i>Marine Pollution Bulletin</i> , 2018, 131, 72-82.	5.0	26
30	Consequences of an uncertain mass mortality regime triggered by climate variability on giant clam population management in the Pacific Ocean. <i>Theoretical Population Biology</i> , 2018, 119, 37-47.	1.1	12
31	The timing and the scale of the proliferation of <i>Sargassum polycystum</i> in Funafuti Atoll, Tuvalu. <i>Journal of Applied Phycology</i> , 2017, 29, 3097-3108.	2.8	16
32	Marine Dispersal Scales Are Congruent over Evolutionary and Ecological Time. <i>Current Biology</i> , 2017, 27, 149-154.	3.9	45
33	The Future of Giant Clam-Dominated Lagoon Ecosystems Facing Climate Change. <i>Current Climate Change Reports</i> , 2017, 3, 261-270.	8.6	8
34	Are Sea Surface Temperature satellite measurements reliable proxies of lagoon temperature in the South Pacific?. <i>Estuarine, Coastal and Shelf Science</i> , 2017, 199, 117-124.	2.1	20
35	Considering reefscape configuration and composition in biophysical models advance seascape genetics. <i>PLoS ONE</i> , 2017, 12, e0178239.	2.5	18
36	Coral mortality induced by the 2015-2016 El-Niño in Indonesia: the effect of rapid sea level fall. <i>Biogeosciences</i> , 2017, 14, 817-826.	3.3	83

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37	Giant Clams (Bivalvia: Cardiidae: Tridacninae): A Comprehensive Update of Species and their Distribution, Current Threats and Conservation Status. , 2017, , 87-387.		63
38	Growth, Survival and Reproduction of the Giant Clam <i>Tridacna maxima</i> (Rafinesque 1798, Bivalvia) in Two Contrasting Lagoons in French Polynesia. PLoS ONE, 2017, 12, e0170565.	2.5	30
39	Drivers of density for the exploited giant clam <i>Tridacna maxima</i> : a meta-analysis. Fish and Fisheries, 2016, 17, 567-584.	5.3	36
40	Identifying Robust Proxies of Gonad Maturation for the Protandrous Hermaphrodite <i>Tridacna maxima</i> (Rafinesque, 1798, Bivalvia) from Individual to Population Scale. Journal of Shellfish Research, 2016, 35, 51-61.	0.9	13
41	Revisiting wild stocks of black lip oyster <i>Pinctada margaritifera</i> in the Tuamotu Archipelago: The case of Ahe and Takaroa atolls and implications for the cultured pearl industry. Estuarine, Coastal and Shelf Science, 2016, 182, 243-253.	2.1	22
42	Larval connectivity of pearl oyster through biophysical modelling; evidence of food limitation and broodstock effect. Estuarine, Coastal and Shelf Science, 2016, 182, 283-293.	2.1	36
43	Sympathy for the Devil: Detailing the Effects of Planning-Unit Size, Thematic Resolution of Reef Classes, and Socioeconomic Costs on Spatial Priorities for Marine Conservation. PLoS ONE, 2016, 11, e0164869.	2.5	24
44	Designing Climate-Resilient Marine Protected Area Networks by Combining Remotely Sensed Coral Reef Habitat with Coastal Multi-Use Maps. Remote Sensing, 2015, 7, 16571-16587.	4.0	29
45	Distribution and biomass evaluation of drifting brown algae from Moorea lagoon (French Polynesia) for eco-friendly agricultural use. Journal of Applied Phycology, 2015, 27, 1277-1287.	2.8	17
46	Conservation of low-islands: high priority despite sea-level rise. A comment on Courchamp et al.. Trends in Ecology and Evolution, 2015, 30, 1-2.	8.7	38
47	Diversifying the use of tuna to improve food security and public health in Pacific Island countries and territories. Marine Policy, 2015, 51, 584-591.	3.2	97
48	Optimising the use of nearshore fish aggregating devices for food security in the Pacific Islands. Marine Policy, 2015, 56, 98-105.	3.2	52
49	Mass mortality events in atoll lagoons: environmental control and increased future vulnerability. Global Change Biology, 2015, 21, 195-205.	9.5	50
50	Conservation and resource management in small tropical islands: Trade-offs between planning unit size, data redundancy and data loss. Ocean and Coastal Management, 2015, 116, 37-43.	4.4	15
51	Modulation of Habitat-Based Conservation Plans by Fishery Opportunity Costs: A New Caledonia Case Study Using Fine-Scale Catch Data. PLoS ONE, 2014, 9, e97409.	2.5	15
52	Checklist of the marine and estuarine fishes of Madang District, Papua New Guinea, western Pacific Ocean, with 820 new records. Zootaxa, 2014, 3832, 1.	0.5	41
53	Significance of new records of <i>Tridacna squamosa</i> Lamarck, 1819, in the Tuamotu and Gambier Archipelagos (French Polynesia). Molluscan Research, 2014, 34, 277-284.	0.7	14
54	Amount and type of derelict gear from the declining black pearl oyster aquaculture in Ahe atoll lagoon, French Polynesia. Marine Pollution Bulletin, 2014, 83, 224-230.	5.0	36

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55	Tropical islands quick data gap analysis guided by coral reef geomorphological maps. <i>Marine Pollution Bulletin</i> , 2014, 81, 191-199.	5.0	7
56	Bringing an ecological view of change to Landsat-based remote sensing. <i>Frontiers in Ecology and the Environment</i> , 2014, 12, 339-346.	4.0	285
57	A monospecific <i>Millepora</i> reef in Marquesas Islands, French Polynesia. <i>Coral Reefs</i> , 2014, 33, 463-463.	2.2	14
58	Human-Mediated Loss of Phylogenetic and Functional Diversity in Coral Reef Fishes. <i>Current Biology</i> , 2014, 24, 555-560.	3.9	142
59	Spread of the green snail <i>Turbo marmoratus</i> in French Polynesia 45 years after its introduction and implications for fishery management. <i>Ocean and Coastal Management</i> , 2014, 96, 42-50.	4.4	6
60	Remote Sensing of Coral Reefs and Their Environments in the Red Sea and Western Indian Ocean: Research and Management. , 2014, , 317-335.		2
61	Larval Dispersal Modeling of Pearl Oyster <i>Pinctada margaritifera</i> following Realistic Environmental and Biological Forcing in Ahe Atoll Lagoon. <i>PLoS ONE</i> , 2014, 9, e95050.	2.5	35
62	Ecoregional scale seagrass mapping: A tool to support resilient MPA network design in the Coral Triangle. <i>Ocean and Coastal Management</i> , 2013, 80, 55-64.	4.4	43
63	Climate variability and massive mortalities challenge giant clam conservation and management efforts in French Polynesia atolls. <i>Biological Conservation</i> , 2013, 160, 190-199.	4.1	53
64	Alert thresholds for monitoring environmental variables: A new approach applied to seagrass beds diversity in New Caledonia. <i>Marine Pollution Bulletin</i> , 2013, 77, 300-307.	5.0	10
65	Compromises between international habitat conservation guidelines and small-scale fisheries in Pacific island countries. <i>Conservation Letters</i> , 2013, 6, 46-57.	5.7	25
66	The Coral Sea. <i>Advances in Marine Biology</i> , 2013, 66, 213-290.	1.4	51
67	Best Management Strategies for Sustainable Giant Clam Fishery in French Polynesia Islands: Answers from a Spatial Modeling Approach. <i>PLoS ONE</i> , 2013, 8, e64641.	2.5	21
68	Open and closed seascapes: Where does habitat patchiness create populations with high fractions of self-recruitment?. <i>Ecological Applications</i> , 2012, 22, 1257-1267.	3.8	92
69	Island shadow effects and the wave climate of the Western Tuamotu Archipelago (French Polynesia) inferred from altimetry and numerical model data. <i>Marine Pollution Bulletin</i> , 2012, 65, 415-424.	5.0	46
70	Recent research for pearl oyster aquaculture management in French Polynesia. <i>Marine Pollution Bulletin</i> , 2012, 65, 407-414.	5.0	40
71	Multi-scale marine biodiversity patterns inferred efficiently from habitat image processing. , 2012, 22, 792-803.		23
72	Comparison of Marine Spatial Planning Methods in Madagascar Demonstrates Value of Alternative Approaches. <i>PLoS ONE</i> , 2012, 7, e28969.	2.5	43

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73	Interaction between Coastal and Oceanic Ecosystems of the Western and Central Pacific Ocean through Predator-Prey Relationship Studies. <i>PLoS ONE</i> , 2012, 7, e36701.	2.5	28
74	Habitats as Surrogates of Taxonomic and Functional Fish Assemblages in Coral Reef Ecosystems: A Critical Analysis of Factors Driving Effectiveness. <i>PLoS ONE</i> , 2012, 7, e40997.	2.5	21
75	Barrier Reef (Ribbon Reef). <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 102-107.	0.1	4
76	Using very high resolution remote sensing for the management of coral reef fisheries: Review and perspectives. <i>Marine Pollution Bulletin</i> , 2010, 60, 1397-1405.	5.0	62
77	The next step in shallow coral reef monitoring: Combining remote sensing and in situ approaches. <i>Marine Pollution Bulletin</i> , 2010, 60, 1956-1968.	5.0	41
78	Use of Habitats as Surrogates of Biodiversity for Efficient Coral Reef Conservation Planning in Pacific Ocean Islands. <i>Conservation Biology</i> , 2010, 24, 541-552.	4.7	99
79	Measuring progress toward global marine conservation targets. <i>Frontiers in Ecology and the Environment</i> , 2010, 8, 124-129.	4.0	37
80	Breeding Avifauna of the Chesterfield Islands, Coral Sea: Current Population Sizes, Trends, and Threats. <i>Pacific Science</i> , 2010, 64, 297-314.	0.6	16
81	A comparison of two surveys of invertebrates at Pacific Ocean islands: the giant clam at Raivavae Island, Australes Archipelago, French Polynesia. <i>ICES Journal of Marine Science</i> , 2009, 66, 1825-1836.	2.5	15
82	Remote sensing and fish-habitat relationships in coral reef ecosystems: Review and pathways for multi-scale hierarchical research. <i>Marine Pollution Bulletin</i> , 2009, 58, 11-19.	5.0	61
83	Planning the use of fish for food security in the Pacific. <i>Marine Policy</i> , 2009, 33, 64-76.	3.2	391
84	Quantification of two decades of shallow-water coral reef habitat decline in the Florida Keys National Marine Sanctuary using Landsat data (1984-2002). <i>Remote Sensing of Environment</i> , 2008, 112, 3388-3399.	11.0	89
85	Regional-scale seagrass habitat mapping in the Wider Caribbean region using Landsat sensors: Applications to conservation and ecology. <i>Remote Sensing of Environment</i> , 2008, 112, 3455-3467.	11.0	125
86	Enhanced seamount location database for the western and central Pacific Ocean: Screening and cross-checking of 20 existing datasets. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2008, 55, 1035-1047.	1.4	32
87	Optical Algorithms at Satellite Wavelengths for Total Suspended Matter in Tropical Coastal Waters. <i>Sensors</i> , 2008, 8, 4165-4185.	3.8	102
88	ECOLOGY: Enhanced: Coral Reefs and the Global Network of Marine Protected Areas. <i>Science</i> , 2006, 312, 1750-1751.	12.6	394
89	The giant clam <i>Tridacna maxima</i> communities of three French Polynesia islands: comparison of their population sizes and structures at early stages of their exploitation. <i>ICES Journal of Marine Science</i> , 2006, 63, 1573-1589.	2.5	52
90	Human-induced physical disturbances and their indicators on coral reef habitats: A multi-scale approach. <i>Aquatic Living Resources</i> , 2005, 18, 215-230.	1.2	47

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91	Coral reef distribution, status and geomorphology?biodiversity relationship in Kuna Yala (San Blas) archipelago, Caribbean Panama. <i>Coral Reefs</i> , 2005, 24, 31-42.	2.2	56
92	The remarkable population size of the endangered clam <i>Tridacna maxima</i> assessed in Fangatau Atoll (Eastern Tuamotu, French Polynesia) using in situ and remote sensing data. <i>ICES Journal of Marine Science</i> , 2005, 62, 1037-1048.	2.5	64
93	Spectral reflectance of coral. <i>Coral Reefs</i> , 2004, 23, 84-95.	2.2	100
94	Satellite observation of Keppel Islands (Great Barrier Reef) 2002 coral bleaching using IKONOS data. <i>Coral Reefs</i> , 2004, 23, 123-132.	2.2	70
95	Mapping and biomass estimation of the invasive brown algae <i>Turbinaria ornata</i> (Turner) J. Agardh and <i>Sargassum mangarevense</i> (Grunow) Setchell on heterogeneous Tahitian coral reefs using 4-meter resolution IKONOS satellite data. <i>Coral Reefs</i> , 2004, 23, 26-38.	2.2	54
96	Multi-site evaluation of IKONOS data for classification of tropical coral reef environments. <i>Remote Sensing of Environment</i> , 2003, 88, 128-143.	11.0	289
97	Evaluation of large-scale unsupervised classification of New Caledonia reef ecosystems using Landsat 7 ETM+ imagery. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2003, 26, 281-290.	0.7	24
98	Spectral reflectance of coral reef bottom-types worldwide and implications for coral reef remote sensing. <i>Remote Sensing of Environment</i> , 2003, 85, 159-173.	11.0	246
99	Detection of changes in coral reef communities using Landsat-5 TM and Landsat-7 ETM+ data. <i>Canadian Journal of Remote Sensing</i> , 2003, 29, 201-209.	2.4	37
100	Influence of the spatial resolution of SeaWiFS, Landsat-7, SPOT, and International Space Station data on estimates of landscape parameters of Pacific Ocean atolls. <i>Canadian Journal of Remote Sensing</i> , 2003, 29, 210-218.	2.4	24
101	A comparison of Landsat ETM+, SPOT HRV, Ikonos, ASTER, and airborne MASTER data for coral reef habitat mapping in South Pacific islands. <i>Canadian Journal of Remote Sensing</i> , 2003, 29, 187-200.	2.4	97
102	Airborne hyperspectral detection of microbial mat pigmentation in Rangiroa atoll (French Polynesia). <i>Limnology and Oceanography</i> , 2003, 48, 426-430.	3.1	29
103	Atoll morphometry controls lagoon nutrient regime. <i>Limnology and Oceanography</i> , 2001, 46, 456-461.	3.1	40
104	Atmospheric correction and cross-calibration of LANDSAT-7/ETM+ imagery over aquatic environments: A multiplatform approach using SeaWiFS/MODIS. <i>Remote Sensing of Environment</i> , 2001, 78, 99-107.	11.0	88
105	Change detection in shallow coral reef environments using Landsat 7 ETM+ data. <i>Remote Sensing of Environment</i> , 2001, 78, 150-162.	11.0	139
106	Hydrologie et État trophique du lagon de l'atoll Takapoto: comparaisons avec les autres lagons de Tuamotu.. <i>Aquatic Living Resources</i> , 2001, 14, 183-193.	1.2	19
107	Evaluation of Fuzzy Partitions. <i>Remote Sensing of Environment</i> , 2000, 74, 516-533.	11.0	25