Serge Andréfouët

List of Publications by Year
in descending order

107 papers	5,126 citations	94433 37 h-index	98798 67 g-index
109 all docs	109 docs citations	109 times ranked	5066 citing authors

#	Article	IF	Citations
1	ECOLOGY: Enhanced: Coral Reefs and the Global Network of Marine Protected Areas. Science, 2006, 312, 1750-1751.	12.6	394
2	Planning the use of fish for food security in the Pacific. Marine Policy, 2009, 33, 64-76.	3.2	391
3	Multi-site evaluation of IKONOS data for classification of tropical coral reef environments. Remote Sensing of Environment, 2003, 88, 128-143.	11.0	289
4	Bringing an ecological view of change to Landsat‐based remote sensing. Frontiers in Ecology and the Environment, 2014, 12, 339-346.	4.0	285
5	Spectral reflectance of coral reef bottom-types worldwide and implications for coral reef remote sensing. Remote Sensing of Environment, 2003, 85, 159-173.	11.0	246
6	Human-Mediated Loss of Phylogenetic and Functional Diversity in Coral Reef Fishes. Current Biology, 2014, 24, 555-560.	3.9	142
7	Change detection in shallow coral reef environments using Landsat 7 ETM+ data. Remote Sensing of Environment, 2001, 78, 150-162.	11.0	139
8	Regional-scale seagrass habitat mapping in the Wider Caribbean region using Landsat sensors: Applications to conservation and ecology. Remote Sensing of Environment, 2008, 112, 3455-3467.	11.0	125
9	Optical Algorithms at Satellite Wavelengths for Total Suspended Matter in Tropical Coastal Waters. Sensors, 2008, 8, 4165-4185.	3.8	102
10	Spectral reflectance of coral. Coral Reefs, 2004, 23, 84-95.	2.2	100
11	Use of Habitats as Surrogates of Biodiversity for Efficient Coral Reef Conservation Planning in Pacific Ocean Islands. Conservation Biology, 2010, 24, 541-552.	4.7	99
12	A comparison of Landsat ETM+, SPOT HRV, Ikonos, ASTER, and airborne MASTER data for coral reef habitat mapping in South Pacific islands. Canadian Journal of Remote Sensing, 2003, 29, 187-200.	2.4	97
13	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
14	Open and closed seascapes: Where does habitat patchiness create populations with high fractions of self‐recruitment?. Ecological Applications, 2012, 22, 1257-1267.	3.8	92
15	Quantification of two decades of shallow-water coral reef habitat decline in the Florida Keys National Marine Sanctuary using Landsat data (1984–2002). Remote Sensing of Environment, 2008, 112, 3388-3399.	11.0	89
16	Atmospheric correction and cross-calibration of LANDSAT-7/ETM+ imagery over aquatic environments: A multiplatform approach using SeaWiFS/MODIS. Remote Sensing of Environment, 2001, 78, 99-107.	11.0	88
17	Coral mortality induced by the 2015–2016 El-Niño in Indonesia: the effect of rapid sea level fall. Biogeosciences, 2017, 14, 817-826.	3.3	83
18	Satellite observation of Keppel Islands (Great Barrier Reef) 2002 coral bleaching using IKONOS data. Coral Reefs, 2004, 23, 123-132.	2.2	70

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19	The remarkable population size of the endangered clam Tridacna maxima assessed in Fangatau Atoll (Eastern Tuamotu, French Polynesia) using in situ and remote sensing data. ICES Journal of Marine Science, 2005, 62, 1037-1048.	2.5	64
20	Giant Clams (Bivalvia: Cardiidae: Tridacninae): A Comprehensive Update of Species and their Distribution, Current Threats and Conservation Status. , 2017, , 87-387.		63
21	Using very high resolution remote sensing for the management of coral reef fisheries: Review and perspectives. Marine Pollution Bulletin, 2010, 60, 1397-1405.	5.0	62
22	Remote sensing and fishâ€"habitat relationships in coral reef ecosystems: Review and pathways for multi-scale hierarchical research. Marine Pollution Bulletin, 2009, 58, 11-19.	5.0	61
23	Coral reef distribution, status and geomorphology?biodiversity relationship in Kuna Yala (San Blas) archipelago, Caribbean Panama. Coral Reefs, 2005, 24, 31-42.	2.2	56
24	Mapping and biomass estimation of the invasive brown algae Turbinaria ornata (Turner) J. Agardh and Sargassum mangarevense (Grunow) Setchell on heterogeneous Tahitian coral reefs using 4-meter resolution IKONOS satellite data. Coral Reefs, 2004, 23, 26-38.	2.2	54
25	Climate variability and massive mortalities challenge giant clam conservation and management efforts in French Polynesia atolls. Biological Conservation, 2013, 160, 190-199.	4.1	53
26	The giant clam Tridacna maxima communities of three French Polynesia islands: comparison of their population sizes and structures at early stages of their exploitation. ICES Journal of Marine Science, 2006, 63, 1573-1589.	2.5	52
27	Optimising the use of nearshore fish aggregating devices for food security in the Pacific Islands. Marine Policy, 2015, 56, 98-105.	3.2	52
28	The Coral Sea. Advances in Marine Biology, 2013, 66, 213-290.	1.4	51
29	Mass mortality events in atoll lagoons: environmental control and increased future vulnerability. Global Change Biology, 2015, 21, 195-205.	9.5	50
30	Human-induced physical disturbances and their indicators on coral reef habitats: A multi-scale approach. Aquatic Living Resources, 2005, 18, 215-230.	1.2	47
31	Island shadow effects and the wave climate of the Western Tuamotu Archipelago (French Polynesia) inferred from altimetry and numerical model data. Marine Pollution Bulletin, 2012, 65, 415-424.	5.0	46
32	Marine Dispersal Scales Are Congruent over Evolutionary and Ecological Time. Current Biology, 2017, 27, 149-154.	3.9	45
33	Comparison of Marine Spatial Planning Methods in Madagascar Demonstrates Value of Alternative Approaches. PLoS ONE, 2012, 7, e28969.	2.5	43
34	Ecoregional scale seagrass mapping: A tool to support resilient MPA network design in the Coral Triangle. Ocean and Coastal Management, 2013, 80, 55-64.	4.4	43
35	Beyond the reef: The widespread use of nonâ€‹reef habitats by coral reef fishes. Fish and Fisheries, 2019, 20, 903-920.	5.3	43
36	The next step in shallow coral reef monitoring: Combining remote sensing and in situ approaches. Marine Pollution Bulletin, 2010, 60, 1956-1968.	5.0	41

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37	<p>Checklist of the marine and estuarine fishes of Madang District,
Papua New Guinea, western Pacific Ocean, with 820 new records</p>. Zootaxa, 2014, 3832, 1.	0.5	41
38	Atoll morphometry controls lagoon nutrient regime. Limnology and Oceanography, 2001, 46, 456-461.	3.1	40
39	Recent research for pearl oyster aquaculture management in French Polynesia. Marine Pollution Bulletin, 2012, 65, 407-414.	5.0	40
40	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
41	Detection of changes in coral reef communities using Landsat-5 TM and Landsat-7 ETM+ data. Canadian Journal of Remote Sensing, 2003, 29, 201-209.	2.4	37
42	Measuring progress toward global marine conservation targets. Frontiers in Ecology and the Environment, 2010, 8, 124-129.	4.0	37
43	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
44	Drivers of density for the exploited giant clam <i>Tridacna maxima</i>: a metaâ€analysis. Fish and Fisheries, 2016, 17, 567-584.	5.3	36
45	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
46	Larval Dispersal Modeling of Pearl Oyster Pinctada margaritifera following Realistic Environmental and Biological Forcing in Ahe Atoll Lagoon. PLoS ONE, 2014, 9, e95050.	2.5	35
47	Enhanced seamount location database for the western and central Pacific Ocean: Screening and cross-checking of 20 existing datasets. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1035-1047.	1.4	32
48	Growth, Survival and Reproduction of the Giant Clam Tridacna maxima (RÃ¶ding 1798, Bivalvia) in Two Contrasting Lagoons in French Polynesia. PLoS ONE, 2017, 12, e0170565.	2.5	30
49	Airborne hyperspectral detection of microbial mat pigmentation in Rangiroa atoll (French Polynesia). Limnology and Oceanography, 2003, 48, 426-430.	3.1	29
50	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
51	Interaction between Coastal and Oceanic Ecosystems of the Western and Central Pacific Ocean through Predator-Prey Relationship Studies. PLoS ONE, 2012, 7, e36701.	2.5	28
52	Challenges in rendering Coral Triangle habitat richness in remotely sensed habitat maps: The case of Bunaken Island (Indonesia). Marine Pollution Bulletin, 2018, 131, 72-82.	5.0	26
53	Evaluation of Fuzzy Partitions. Remote Sensing of Environment, 2000, 74, 516-533.	11.0	25
54	Compromises between international habitat conservation guidelines and smallâ€scale fisheries in Pacific island countries. Conservation Letters, 2013, 6, 46-57.	5.7	25

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55	Evaluation of large-scale unsupervised classification of New Caledonia reef ecosystems using Landsat 7 ETM+ imagery. Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie, 2003, 26, 281-290.	0.7	24
56	Influence of the spatial resolution of SeaWiFS, Landsat-7, SPOT, and International Space Station data on estimates of landscape parameters of Pacific Ocean atolls. Canadian Journal of Remote Sensing, 2003, 29, 210-218.	2.4	24
57	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). Environmental Conservation, 2018, 45, 30-40.	1.3	24
58	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
59	Multi-scale marine biodiversity patterns inferred efficiently from habitat image processing. , 2012, 22, 792-803.		23
60	Revisiting wild stocks of black lip oyster Pinctada margaritifera 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
61	Impact of environmental variability on Pinctada margaritifera life-history traits: A full life cycle deb modeling approach. Ecological Modelling, 2020, 423, 109006.	2.5	22
62	Phylogeographical patterns and a cryptic species provide new insights into Western Indian Ocean giant clams phylogenetic relationships and colonization history. Journal of Biogeography, 2020, 47, 1086-1105.	3.0	22
63	Habitats as Surrogates of Taxonomic and Functional Fish Assemblages in Coral Reef Ecosystems: A Critical Analysis of Factors Driving Effectiveness. PLoS ONE, 2012, 7, e40997.	2.5	21
64	Best Management Strategies for Sustainable Giant Clam Fishery in French Polynesia Islands: Answers from a Spatial Modeling Approach. PLoS ONE, 2013, 8, e64641.	2.5	21
65	Are Sea Surface Temperature satellite measurements reliable proxies of lagoon temperature in the South Pacific?. Estuarine, Coastal and Shelf Science, 2017, 199, 117-124.	2.1	20
66	Hydrologie et état trophique du lagon de l'atoll Takapoto : comparaisons avec les autres lagons de Tuamotu.. Aquatic Living Resources, 2001, 14, 183-193.	1.2	19
67	Considering reefscape configuration and composition in biophysical models advance seascape genetics. PLoS ONE, 2017, 12, e0178239.	2.5	18
68	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
69	Role of habitat definition on Aichi Target 11: Examples from New Caledonian coral reefs. Marine Policy, 2020, 116, 103951.	3.2	17
70	Breeding Avifauna of the Chesterfield Islands, Coral Sea: Current Population Sizes, Trends, and Threats. Pacific Science, 2010, 64, 297-314.	0.6	16
71	The timing and the scale of the proliferation of Sargassum polycystum in Funafuti Atoll, Tuvalu. Journal of Applied Phycology, 2017, 29, 3097-3108.	2.8	16
72	A comparison of two surveys of invertebrates at Pacific Ocean islands: the giant clam at Raivavae Island, Australes Archipelago, French Polynesia. ICES Journal of Marine Science, 2009, 66, 1825-1836.	2.5	15

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73	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
74	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
75	The lagoon geomorphology of pearl farming atolls in the Central Pacific Ocean revisited using detailed bathymetry data. Marine Pollution Bulletin, 2020, 160, 111580.	5.0	15
76	Significance of new records of *Tridacna squamosa* Lamarck, 1819, in the Tuamotu and Gambier Archipelagos (French Polynesia). Molluscan Research, 2014, 34, 277-284.	0.7	14
77	A monospecific Millepora reef in Marquesas Islands, French Polynesia. Coral Reefs, 2014, 33, 463-463.	2.2	14
78	Hindcast and Near Real-Time Monitoring of Green Macroalgae Blooms in Shallow Coral Reef Lagoons Using Sentinel-2: A New-Caledonia Case Study. Remote Sensing, 2021, 13, 211.	4.0	14
79	Identifying Robust Proxies of Gonad Maturation for the Protandrous Hermaphrodite *Tridacna maxima* (Röding, 1798, Bivalvia) from Individual to Population Scale. Journal of Shellfish Research, 2016, 35, 51-61.	0.9	13
80	Consequences of an uncertain mass mortality regime triggered by climate variability on giant clam population management in the Pacific Ocean. Theoretical Population Biology, 2018, 119, 37-47.	1.1	12
81	Seagrass ecosystems of the Pacific Island Countries and Territories: A global bright spot. Marine Pollution Bulletin, 2021, 167, 112308.	5.0	12
82	Estimation of physical and physiological performances of blacklip pearl oyster larvae in view of DEB modeling and recruitment assessment. Journal of Experimental Marine Biology and Ecology, 2019, 512, 42-50.	1.5	11
83	Monitoring pearl farming lagoon temperature with global high resolution satellite-derived products: An evaluation using Raroia Atoll, French Polynesia. Marine Pollution Bulletin, 2020, 160, 111576.	5.0	11
84	Population Connectivity and Genetic Assessment of Exploited and Natural Populations of Pearl Oysters within a French Polynesian Atoll Lagoon. Genes, 2020, 11, 426.	2.4	11
85	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.. Ocean and Coastal Management, 2021, 207, 105586.	4.4	11
86	Alert thresholds for monitoring environmental variables: A new approach applied to seagrass beds diversity in New Caledonia. Marine Pollution Bulletin, 2013, 77, 300-307.	5.0	10
87	Shallow Water Bathymetry Retrieval Using a Band-Optimization Iterative Approach: Application to New Caledonia Coral Reef Lagoons Using Sentinel-2 Data. Remote Sensing, 2021, 13, 4108.	4.0	9
88	The Future of Giant Clam-Dominated Lagoon Ecosystems Facing Climate Change. Current Climate Change Reports, 2017, 3, 261-270.	8.6	8
89	A framework for mapping local knowledge on ciguatera and artisanal fisheries to inform systematic conservation planning. ICES Journal of Marine Science, 2021, 78, 1357-1371.	2.5	8
90	Tide and wave driven flow across the rim reef of the atoll of Raroia (Tuamotu, French Polynesia). Marine Pollution Bulletin, 2021, 171, 112718.	5.0	8

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91	Indonesia's 13558 islands: A new census from space and a first step towards a One Map for Small Islands Policy. Marine Policy, 2022, 135, 104848.	3.2	8
92	Periodicity of wave-driven flows and lagoon water renewal for 74 Central Pacific Ocean atolls. Marine Pollution Bulletin, 2022, 179, 113748.	5.0	8
93	Tropical islands quick data gap analysis guided by coral reef geomorphological maps. Marine Pollution Bulletin, 2014, 81, 191-199.	5.0	7
94	Scaling tropical island conservation planning to the regional level can lead to unbalanced ecological representation and poor social equity among islands. Marine Policy, 2018, 93, 31-39.	3.2	7
95	Phylogeography of Noah's giant clam. Marine Biodiversity, 2019, 49, 521-526.	1.0	7
96	An appraisal of systematic conservation planning for Pacific Ocean Tropical Islands coastal environments. Marine Pollution Bulletin, 2021, 165, 112131.	5.0	7
97	Understanding connectivity of pearl oyster populations within Tuamotu atoll semi-closed lagoons: Cumulative insight from genetics and biophysical modelling approaches. Marine Pollution Bulletin, 2021, 167, 112324.	5.0	7
98	A systematic prioritization approach for identifying suitable pearl oyster restocking zones following a mass mortality event in Takaroa Atoll, French Polynesia. Marine Pollution Bulletin, 2022, 176, 113472.	5.0	7
99	Spread of the green snail Turbo marmoratus in French Polynesia 45 years after its introduction and implications for fishery management. Ocean and Coastal Management, 2014, 96, 42-50.	4.4	6
100	Nation-wide hierarchical and spatially-explicit framework to characterize seagrass meadows in New-Caledonia, and its potential application to the Indo-Pacific. Marine Pollution Bulletin, 2021, 173, 113036.	5.0	6
101	Spatial Solutions and Their Impacts When Reshuffling Coastal Management Priorities in Small Islands with Limited Diversification Opportunities. Sustainability, 2022, 14, 3871.	3.2	6
102	Barrier Reef (Ribbon Reef). Encyclopedia of Earth Sciences Series, 2011, , 102-107.	0.1	4
103	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. Marine Pollution Bulletin, 2022, 178, 113649.	5.0	4
104	Remote Sensing of Coral Reefs and Their Environments in the Red Sea and Western Indian Ocean: Research and Management. , 2014, , 317-335.		2
105	Remote sensing provides new insights on phytoplankton biomass dynamics and black pearl oyster life-history traits in a Pacific Ocean deep atoll. Marine Pollution Bulletin, 2022, 181, 113863.	5.0	2
106	Assembly rules of fish communities in Tuamotu archipelago atoll lagoons: The case of Fangatau, a lagoon dominated by giant clam habitats. Marine Biodiversity, 2018, 48, 2215-2224.	1.0	1
107	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. ICES Journal of Marine Science, 2019, 76, 1062-1071.	2.5	0