Eric Wolanski

List of Publications by Year
in descending order

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136 papers	8,508 citations	38660 50 h-index	48187 88 g-index
138 all docs	138 docs citations	138 times ranked	7901 citing authors

#	Article	IF	Citations
1	Coastal Ecosystem-Based Management with Nonlinear Ecological Functions and Values. Science, 2008, 319, 321-323.	6.0	834
2	The present and future role of coastal wetland vegetation in protecting shorelines: answering recent challenges to the paradigm. Climatic Change, 2011, 106, 7-29.	1.7	740
3	Nonâ€linearity in ecosystem services: temporal and spatial variability in coastal protection. Frontiers in Ecology and the Environment, 2009, 7, 29-37.	1.9	622
4	Drag force due to vegetation in mangrove swamps. Mangroves and Salt Marshes, 1997, 1, 193-199.	0.6	277
5	Ecosystem Services as a Common Language for Coastal Ecosystemâ€Based Management. Conservation Biology, 2010, 24, 207-216.	2.4	246
6	The combined impact on the flooding in Vietnam's Mekong River delta of local man-made structures, sea level rise, and dams upstream in the river catchment. Estuarine, Coastal and Shelf Science, 2007, 71, 110-116.	0.9	227
7	Sedimentation in Mangrove Forests. Mangroves and Salt Marshes, 1996, 1, 3-10.	0.6	210
8	Fine sediment and nutrient dynamics related to particle size and floc formation in a Burdekin River flood plume, Australia. Marine Pollution Bulletin, 2012, 65, 236-248.	2.3	171
9	Fine-sediment Dynamics in the Mekong River Estuary, Vietnam. Estuarine, Coastal and Shelf Science, 1996, 43, 565-582.	0.9	169
10	Coastal Ecosystems: A Critical Element of Risk Reduction. Conservation Letters, 2014, 7, 293-301.	2.8	157
11	Ecoengineering with Ecohydrology: Successes and failures in estuarine restoration. Estuarine, Coastal and Shelf Science, 2016, 176, 12-35.	0.9	132
12	Tidal jets, nutrient upwelling and their influence on the productivity of the alga Halimeda in the Ribbon Reefs, Great Barrier Reef. Estuarine, Coastal and Shelf Science, 1988, 26, 169-201.	0.9	130
13	An evaporation-driven salinity maximum zone in Australian tropical estuaries. Estuarine, Coastal and Shelf Science, 1986, 22, 415-424.	0.9	126
14	Dynamics of the turbidity maximum in the Fly River estuary, Papua New Guinea. Estuarine, Coastal and Shelf Science, 1995, 40, 321-337.	0.9	124
15	Watersheds and Coral Reefs: Conservation Science, Policy, and Implementation. BioScience, 2007, 57, 598-607.	2.2	102
16	A multi-scale model of the hydrodynamics of the whole Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2008, 79, 143-151.	0.9	102
17	Future makers or future takers? A scenario analysis of climate change and the Great Barrier Reef. Global Environmental Change, 2011, 21, 876-893.	3.6	102
18	Tidal mixing and trapping in mangrove swamps. Estuarine, Coastal and Shelf Science, 1986, 23, 759-771.	0.9	101

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19	Three-dimensional island wakes in the field, laboratory experiments and numerical models. Continental Shelf Research, 1996, 16, 1437-1452.	0.9	90
20	Numerical modelling and graph theory tools to study ecological connectivity in the Great Barrier Reef. Ecological Modelling, 2014, 272, 160-174.	1.2	87
21	Road will ruin Serengeti. Nature, 2010, 467, 272-273.	13.7	86
22	The way forward with ecosystem-based management in tropical contexts: Reconciling with existing management systems. Marine Policy, 2012, 36, 1-10.	1.5	86
23	Dynamics, flushing and trapping in Hinchinbrook channel, a giant mangrove swamp, Australia. Estuarine, Coastal and Shelf Science, 1990, 31, 555-579.	0.9	85
24	Fine sediment budget on an inner-shelf coral-fringed island, Great Barrier Reef of Australia. Estuarine, Coastal and Shelf Science, 2005, 65, 153-158.	0.9	85
25	Directional Swimming of Fish Larvae Determines Connectivity of Fish Populations on the Great Barrier Reef. Die Naturwissenschaften, 1997, 84, 262-268.	0.6	82
26	Mixing, trapping and outwelling in the Klong Ngao mangrove swamp, Thailand. Estuarine, Coastal and Shelf Science, 1990, 31, 667-688.	0.9	80
27	A model of the effects of land-based, human activities on the health of coral reefs in the Great Barrier Reef and in Fouha Bay, Guam, Micronesia. Journal of Marine Systems, 2004, 46, 133-144.	0.9	78
28	Trapping and dispersion of coral eggs around Bowden Reef, Great Barrier Reef, following mass coral spawning. Continental Shelf Research, 1989, 9, 479-496.	0.9	77
29	Currents through Torres Strait. Journal of Physical Oceanography, 1988, 18, 1535-1545.	0.7	72
30	Oceanographic and behavioural assumptions in models of the fate of coral and coral reef fish larvae. Journal of the Royal Society Interface, 2014, 11, 20140209.	1.5	70
31	Drivers of recovery and reassembly of coral reef communities. Proceedings of the Royal Society B: Biological Sciences, 2019, 286, 20182908.	1.2	70
32	Water circulation in the Gulf of Papua. Continental Shelf Research, 1995, 15, 185-212.	0.9	69
33	Upwelling by internal waves, Tahiti, French Polynesia. Continental Shelf Research, 1995, 15, 357-368.	0.9	67
34	High-resolution, unstructured meshes for hydrodynamic models of the Great Barrier Reef, Australia. Estuarine, Coastal and Shelf Science, 2006, 68, 36-46.	0.9	67
35	An ecohydrology model of the Guadiana Estuary (South Portugal). Estuarine, Coastal and Shelf Science, 2006, 70, 132-143.	0.9	67
36	Wet season fine sediment dynamics on the inner shelf of the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2008, 77, 755-762.	0.9	67

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37	Sedimentation in mangroves and coral reefs in a wet tropical island, Pohnpei, Micronesia. Estuarine, Coastal and Shelf Science, 2006, 66, 409-416.	0.9	66
38	Quantifying the impact of watershed urbanization on a coral reef: Maunalua Bay, Hawaii. Estuarine, Coastal and Shelf Science, 2009, 84, 259-268.	0.9	65
39	â€˜Sticky waterâ€™ enables the retention of larvae in a reef mosaic. Estuarine, Coastal and Shelf Science, 2012, 101, 54-63.	0.9	64
40	Mud, Marine Snow and Coral Reefs. American Scientist, 2003, 91, 44.	0.1	63
41	Modeling Tidal Circulation in an Island's Wake. Journal of Waterway, Port, Coastal and Ocean Engineering, 1986, 112, 234-254.	0.5	60
42	What processes control the net currents through shallow straits? AÂreview with application to the Bohai Strait, China. Estuarine, Coastal and Shelf Science, 2015, 158, 1-11.	0.9	60
43	Biophysical processes leading to the ingress of temperate fish larvae into estuarine nursery areas: A review. Estuarine, Coastal and Shelf Science, 2016, 183, 187-202.	0.9	60
44	Water and fine sediment dynamics in transient river plumes in a small, reef-fringed bay, Guam. Estuarine, Coastal and Shelf Science, 2003, 56, 1029-1040.	0.9	58
45	Title is missing!. Mangroves and Salt Marshes, 1998, 2, 223-230.	0.6	57
46	Outwelling from tropical tidal salt flats. Estuarine, Coastal and Shelf Science, 1988, 26, 243-253.	0.9	52
47	Wildlife-water quality interactions in the Serengeti National Park, Tanzania. African Journal of Ecology, 1998, 36, 1-14.	0.4	52
48	Trapping of fine sediment in a semi-enclosed bay, Palau, Micronesia. Estuarine, Coastal and Shelf Science, 2003, 57, 941-949.	0.9	52
49	Predicting the impact of present and future human land-use on the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2005, 64, 504-508.	0.9	52
50	Modelling the fate of marine turtle hatchlings. Ecological Modelling, 2011, 222, 1515-1521.	1.2	51
51	An assessment of residence times of land-sourced contaminants in the Great Barrier Reef lagoon and the implications for management and reef recovery. Marine Pollution Bulletin, 2012, 65, 267-279.	2.3	51
52	Mixing across a lutocline. Limnology and Oceanography, 1989, 34, 931-938.	1.6	50
53	Dynamics of hypersaline coastal waters in the Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2011, 94, 299-305.	0.9	50
54	Environmental degradation by mud in tropical estuaries. Regional Environmental Change, 2000, 1, 152-162.	1.4	49

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55	Title is missing!. Mangroves and Salt Marshes, 1998, 2, 237-242.	0.6	48
56	Papyrus wetlands, nutrients balance, fisheries collapse, food security, and Lake Victoria level decline in 2000â€“2006. Wetlands Ecology and Management, 2008, 16, 89-96.	0.7	46
57	Water circulation in the Gulf of Carpentaria. Journal of Marine Systems, 1993, 4, 401-420.	0.9	45
58	A three-dimensional model of the water circulation around an island in shallow water. Continental Shelf Research, 1992, 12, 891-906.	0.9	41
59	Long-term isolation and local adaptation in Palauâ€™s Nikko Bay help corals thrive in acidic waters. Coral Reefs, 2016, 35, 909-918.	0.9	40
60	The effect of flocs on optical backscattering measurements of suspended material concentration. Marine Geology, 1992, 107, 289-291.	0.9	37
61	Suspended particulate matter affects the nutrient budget of turbid estuaries: Modification of the LOICZ model and application to the Yangtze Estuary. Estuarine, Coastal and Shelf Science, 2013, 127, 59-62.	0.9	37
62	Trapping of plastics in semi-enclosed seas: Insights from the Bohai Sea, China. Marine Pollution Bulletin, 2018, 137, 509-517.	2.3	37
63	Longitudinal diffusion in mangrove-fringed tidal creeks. Estuarine, Coastal and Shelf Science, 1990, 31, 541-554.	0.9	36
64	The net water circulation through Torres strait. Continental Shelf Research, 2013, 64, 66-74.	0.9	35
65	Flushing of Bowden Reef lagoon, Great Barrier Reef. Estuarine, Coastal and Shelf Science, 1990, 31, 789-804.	0.9	34
66	Links between physical, chemical and biological processes in Bashita-minato, a mangrove swamp in Japan. Estuarine, Coastal and Shelf Science, 1990, 31, 817-833.	0.9	34
67	Oxygen cycle in a hippo pool, Serengeti National Park, Tanzania. African Journal of Ecology, 1999, 37, 419-423.	0.4	34
68	Predicting Coral Recruitment in Palauâ€™s Complex Reef Archipelago. PLoS ONE, 2012, 7, e50998.	1.1	34
69	Title is missing!. Mangroves and Salt Marshes, 1998, 2, 205-221.	0.6	32
70	The transport and fate of riverine fine sediment exported to a semi-open system. Estuarine, Coastal and Shelf Science, 2015, 167, 336-346.	0.9	32
71	Settling of ocean-dumped dredged material, Townsville, Australia. Estuarine, Coastal and Shelf Science, 1992, 35, 473-489.	0.9	31
72	Tidal current variability in the Central Great Barrier Reef. Journal of Marine Systems, 1996, 9, 187-202.	0.9	29

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73	Seasonal dispersion of petroleum contaminants in the Gulf of Thailand. Continental Shelf Research, 1998, 18, 641-659.	0.9	29
74	The role of wetlands in wildlife migration in the Tarangire ecosystem, Tanzania. Wetlands Ecology and Management, 2004, 12, 285-299.	0.7	29
75	Bounded and unbounded boundaries â€“ Untangling mechanisms for estuarine-marine ecological connectivity: Scales of m to 10,000Âkm â€“ A review. Estuarine, Coastal and Shelf Science, 2017, 198, 378-392.	0.9	29
76	Flow separation and vertical motions in a tidal flow interacting with a shallow-water island. Estuarine, Coastal and Shelf Science, 2008, 77, 457-466.	0.9	28
77	Study of the nutrient and plankton dynamics in Lake Tanganyika using a reduced-gravity model. Ecological Modelling, 2007, 200, 225-233.	1.2	27
78	A review of the water crisis in Tanzania's protected areas, with emphasis on the Katuma Riverâ€"Lake Rukwa ecosystem. Ecohydrology and Hydrobiology, 2010, 10, 153-165.	1.0	27
79	Mangrove plantation over a limestone reef â€“ Good for the ecology?. Estuarine, Coastal and Shelf Science, 2016, 173, 57-64.	0.9	27
80	Water, Migration and the Serengeti Ecosystem. American Scientist, 1999, 87, 526.	0.1	27
81	Ecohydrology as a tool for the survival of the threatened Serengeti ecosystem. Ecohydrology and Hydrobiology, 2009, 9, 115-124.	1.0	26
82	The fate of phosphorus in the Yangtze (Changjiang) Estuary, China, under multi-stressors: Hindsight and forecast. Estuarine, Coastal and Shelf Science, 2015, 163, 1-6.	0.9	25
83	Submesoscale tidal eddies in the wake of coral islands and reefs: satellite data and numerical modelling. Ocean Dynamics, 2017, 67, 897-913.	0.9	25
84	Oceanographic Currents and Local Ecological Knowledge Indicate, and Genetics Does Not Refute, a Contemporary Pattern of Larval Dispersal for The Ornate Spiny Lobster, Panulirus ornatus in the South-East Asian Archipelago. PLoS ONE, 2015, 10, e0124568.	1.1	25
85	Island-generated internal waves at Scott Reef, Western Australia. Continental Shelf Research, 1998, 18, 1649-1666.	0.9	24
86	Kinematics of phalarope spinning. Nature, 1996, 384, 121-121.	13.7	23
87	The Gulf of Carpentaria heated Torres Strait and the Northern Great Barrier Reef during the 2016 mass coral bleaching event. Estuarine, Coastal and Shelf Science, 2017, 194, 172-181.	0.9	23
88	Does behaviour affect the dispersal of flatback post-hatchlings in the Great Barrier Reef?. Royal Society Open Science, 2017, 4, 170164.	1.1	23
89	Water circulation and fish larvae recruitment in papyrus wetlands, Rubondo Island, Lake Victoria. Wetlands Ecology and Management, 2002, 10, 131-141.	0.7	22
90	Low-Level Trade Winds Over the Western Coral Sea. Journal of Applied Meteorology, 1982, 21, 881-882.	1.1	21

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91	The evolution time scale of macro-tidal estuaries: Examples from the Pacific Rim. Estuarine, Coastal and Shelf Science, 2006, 66, 544-549.	0.9	20
92	The need to enforce minimum environmental flow requirements in Tanzania to preserve estuaries: case study of mangrove-fringed Wami River estuary. Ecohydrology and Hydrobiology, 2015, 15, 171-181.	1.0	20
93	Swimming Abilities of Temperate Pelagic Fish Larvae Prove that they May Control their Dispersion in Coastal Areas. Diversity, 2019, 11, 185.	0.7	19
94	Patchiness in the Fly River plume in Torres Strait. Journal of Marine Systems, 1999, 18, 369-381.	0.9	18
95	Currents and flusing of Britomart reef lagoon, Great Barrier Reef. Coral Reefs, 1983, 2, 1-8.	0.9	17
96	Resuspension and clearing of dredge spoils after dredging, Cleveland Bay, Australia. Water Environment Research, 1992, 64, 910-914.	1.3	17
97	Tides on the Northern Great Barrier Reef Continental Shelf. Journal of Geophysical Research, 1983, 88, 5953-5959.	3.3	16
98	Salinity intrusion and rice farming in the mangrove-fringed Konkoure River delta, Guinea. Wetlands Ecology and Management, 2000, 8, 29-36.	0.7	15
99	Restoring the perennial Great Ruaha River using ecohydrology, engineering and governance methods in Tanzania. Ecohydrology and Hydrobiology, 2018, 18, 120-129.	1.0	15
100	Some evidence for boundary mixing near coral reefs. Limnology and Oceanography, 1987, 32, 735-739.	1.6	13
101	The influence of wetlands in regulating water quality in the Seronera River, Serengeti National Park, Tanzania. Wetlands Ecology and Management, 2004, 12, 301-307.	0.7	13
102	Papyrus wetlands a lunar-modulated refuge for aquatic fauna. Wetlands Ecology and Management, 2006, 14, 359-363.	0.7	13
103	The influence of wetlands, decaying organic matter, and stirring by wildlife on the dissolved oxygen concentration in eutrophicated water holes in the Seronera River, Serengeti National Park, Tanzania. Wetlands Ecology and Management, 2006, 14, 421-425.	0.7	13
104	Wind Conditions on the Great Barrier Reef Influenced the Recruitment of Snapper (Lutjanus) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	1.2	13
105	Both riverine detritus and dissolved nutrients drive lagoon fisheries. Estuarine, Coastal and Shelf Science, 2016, 183, 360-369.	0.9	12
106	The Serengeti will die if Kenya dams the Mara River. Oryx, 2017, 51, 581-583.	0.5	12
107	The application of nutrient budget models to determine the ecosystem health of the Wami Estuary, Tanzania. Ecohydrology and Hydrobiology, 2018, 18, 107-119.	1.0	12
108	Observations of wind-driven surface gravity waves offshore from the Great Barrier Reef. Coral Reefs, 1986, 4, 213-219.	0.9	11

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109	Friction-controlled selective withdrawal near inlets. Estuarine, Coastal and Shelf Science, 1987, 24, 327-333.	0.9	11
110	Wind-driven upwelling in Opunohu Bay, Moorea, French Polynesia. Estuarine, Coastal and Shelf Science, 1995, 40, 57-66.	0.9	11
111	Settling of muddy marine snow. Wetlands Ecology and Management, 2002, 10, 283-287.	0.7	9
112	Sensitivity analysis of the physical dynamics of the Fly River plume in Torres Strait. Estuarine, Coastal and Shelf Science, 2017, 194, 84-91.	0.9	9
113	Modelling the ingress of a temperate fish larva into a nursery coastal lagoon. Estuarine, Coastal and Shelf Science, 2020, 235, 106601.	0.9	9
114	Behavioural maintenance of highly localised jellyfish (Copula sivickisi, class Cubozoa) populations. Marine Biology, 2020, 167, 1.	0.7	9
115	Dams and climate change accelerate channel avulsion and coastal erosion and threaten Ramsar-listed wetlands in the largest Great Barrier Reef watershed. Ecohydrology and Hydrobiology, 2022, 22, 197-212.	1.0	8
116	Island building and overfishing in the Spratly Islands archipelago are predicted to decrease larval flow and impact the whole system. Estuarine, Coastal and Shelf Science, 2020, 233, 106545.	0.9	7
117	Carbonate mud in Mataiva Atoll, French Polynesia: Suspension and export. Marine Pollution Bulletin, 1994, 29, 36-41.	2.3	6
118	Chapter Twenty-One Mud threat to the Great Barrier Reef of Australia. Proceedings in Marine Science, 2002, 4, 533-542.	0.1	6
119	Are Tanzanian National Parks affected by the water crisis? Findings and ecohydrology solutions. Ecohydrology and Hydrobiology, 2021, 21, 425-442.	1.0	6
120	Managing wetlands to solve the water crisis in the Katuma River ecosystem, Tanzania. Ecohydrology and Hydrobiology, 2021, 21, 211-222.	1.0	6
121	Chapter Eleven Fine sediment dynamics in the mangrove-fringed, muddy coastal zone. Proceedings in Marine Science, 2002, 4, 279-292.	0.1	5
122	Estuarine ecological structure and functioning. , 2016, , 157-193.		4
123	The net water circulation in the far Northern Great Barrier Reef. Estuarine, Coastal and Shelf Science, 2020, 235, 106569.	0.9	4
124	A Simple Analytical Model of Low-Frequency Wind-Driven Upwelling on a Continental Slope. Journal of Physical Oceanography, 1986, 16, 1694-1702.	0.7	3
125	Visualization in Marine Science. Estuarine, Coastal and Shelf Science, 2000, 50, 7-9.	0.9	3
126	Behavioural and oceanographic isolation of an island-based jellyfish (Copula sivickisi, Class Cubozoa) population. Scientific Reports, 2021, 11, 10280.	1.6	3

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127	Oceanographic chaos and its role in larval self-recruitment and connectivity among fish populations in Micronesia. Estuarine, Coastal and Shelf Science, 2021, 259, 107461.	0.9	3
128	International scientists discuss impact on Chinaâ€™s estuarine and coastal environment by intensive anthropogenic activities â€“ The 2nd workshop on sediment dynamics of muddy coasts and estuaries: Physics, biology and their interactions, Zhoushan, China, 23â€“26 October, 2015. Estuarine, Coastal and Shelf Science, 2016, 168, ii-iii.	0.9	2
129	The intrusion of polluted Fly River mud into Torres Strait. Marine Pollution Bulletin, 2021, 166, 112243.	2.3	2
130	Undular tidal bore dynamics in the Daly Estuary, Northern Australia. Estuarine, Coastal and Shelf Science, 2004, 60, 629-629.	0.9	1
131	Integrating science in the management of enclosed seas â€“ A synthesis. Estuarine, Coastal and Shelf Science, 2020, 234, 106647.	0.9	1
132	Using Optical Water-Type Classification in Data-Poor Water Quality Assessment: A Case Study in the Torres Strait. Remote Sensing, 2022, 14, 2212.	1.8	1
133	Closure to â€œ Modeling Tidal Circulation in an Island's Wake â€•by Robert A. Falconer, Eric Wolanski, and Lida Mardapittaâ€Hadjipandeli (March, 1986, Vol. 112, No. 2). Journal of Waterway, Port, Coastal and Ocean Engineering, 1988, 114, 106-110.	0.5	0
134	Computer Visualization in Marine Science and Technology. Marine Technology Society Journal, 2002, 36, 86-87.	0.3	0
135	The Serengeti will die if Kenya dams the Mara Riverâ€”CORRIGENDUM. Oryx, 2018, 52, 195-195.	0.5	0
136	Jon Brodie Memorial: The sources, fates and consequences of pollutants in tropical shelf systems. Marine Pollution Bulletin, 2022, 179, 113669.	2.3	0