

Michel L Kulbicki

List of Publications by Year in descending order

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96
papers

5,973
citations

81900

39
h-index

76900

74
g-index

100
all docs

100
docs citations

100
times ranked

7441
citing authors

#	ARTICLE	IF	CITATIONS
1	Rare Species Support Vulnerable Functions in High-Diversity Ecosystems. <i>PLoS Biology</i> , 2013, 11, e1001569.	5.6	654
2	Bright spots among the world's coral reefs. <i>Nature</i> , 2016, 535, 416-419.	27.8	394
3	Functional over-redundancy and high functional vulnerability in global fish faunas on tropical reefs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 13757-13762.	7.1	391
4	Global Human Footprint on the Linkage between Biodiversity and Ecosystem Functioning in Reef Fishes. <i>PLoS Biology</i> , 2011, 9, e1000606.	5.6	249
5	Environmental DNA illuminates the dark diversity of sharks. <i>Science Advances</i> , 2018, 4, eaap9661.	10.3	222
6	How the acquired behaviour of commercial reef fishes may influence the results obtained from visual censuses. <i>Journal of Experimental Marine Biology and Ecology</i> , 1998, 222, 11-30.	1.5	202
7	Gravity of human impacts mediates coral reef conservation gains. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2018, 115, E6116-E6125.	7.1	185
8	Global Biogeography of Reef Fishes: A Hierarchical Quantitative Delineation of Regions. <i>PLoS ONE</i> , 2013, 8, e81847.	2.5	181
9	Adult and larval traits as determinants of geographic range size among tropical reef fishes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 16498-16502.	7.1	157
10	Quaternary coral reef refugia preserved fish diversity. <i>Science</i> , 2014, 344, 1016-1019.	12.6	148
11	Human-Mediated Loss of Phylogenetic and Functional Diversity in Coral Reef Fishes. <i>Current Biology</i> , 2014, 24, 555-560.	3.9	142
12	Plate tectonics drive tropical reef biodiversity dynamics. <i>Nature Communications</i> , 2016, 7, 11461.	12.8	136
13	Niche shift can impair the ability to predict invasion risk in the marine realm: an illustration using Mediterranean fish invaders. <i>Ecology Letters</i> , 2015, 18, 246-253.	6.4	121
14	Meeting fisheries, ecosystem function, and biodiversity goals in a human-dominated world. <i>Science</i> , 2020, 368, 307-311.	12.6	99
15	Diet composition of carnivorous fishes from coral reef lagoons of New Caledonia. <i>Aquatic Living Resources</i> , 2005, 18, 231-250.	1.2	97
16	Forecasted coral reef decline in marine biodiversity hotspots under climate change. <i>Global Change Biology</i> , 2015, 21, 2479-2487.	9.5	97
17	How accessible are coral reefs to people? A global assessment based on travel time. <i>Ecology Letters</i> , 2016, 19, 351-360.	6.4	97
18	The biogeography of tropical reef fishes: endemism and provinciality through time. <i>Biological Reviews</i> , 2017, 92, 2112-2130.	10.4	91

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19	Functional Redundancy Patterns Reveal Non-Random Assembly Rules in a Species-Rich Marine Assemblage. PLoS ONE, 2011, 6, e26735.	2.5	90
20	Factors affecting the detection distances of reef fish: implications for visual counts. Marine Biology, 2011, 158, 969-981.	1.5	88
21	Designing indicators for assessing the effects of marine protected areas on coral reef ecosystems: A multidisciplinary standpoint. Aquatic Living Resources, 2005, 18, 15-33.	1.2	86
22	Global mismatch between species richness and vulnerability of reef fish assemblages. Ecology Letters, 2014, 17, 1101-1110.	6.4	78
23	Form and function of tropical macroalgal reefs in the Anthropocene. Functional Ecology, 2019, 33, 989-999.	3.6	76
24	Marine reserves lag behind wilderness in the conservation of key functional roles. Nature Communications, 2016, 7, 12000.	12.8	71
25	Ecological traits and environmental affinity explain <i>R</i> ² of <i>S</i> _{ea} fish introduction into the <i>M</i> _{editerranean} . Global Change Biology, 2013, 19, 1373-1382.	9.5	66
26	Comparison of density estimates derived from strip transect and distance sampling for underwater visual censuses: a case study of Chaetodontidae and Pomacanthidae. Aquatic Living Resources, 1999, 12, 315-325.	1.2	65
27	Remote sensing and fish-habitat relationships in coral reef ecosystems: Review and pathways for multi-scale hierarchical research. Marine Pollution Bulletin, 2009, 58, 11-19.	5.0	61
28	Extensions of Island Biogeography Theory predict the scaling of functional trait composition with habitat area and isolation. Ecology Letters, 2017, 20, 135-146.	6.4	58
29	Macroalgal meadow habitats support fish and fisheries in diverse tropical seascapes. Fish and Fisheries, 2020, 21, 700-717.	5.3	56
30	Medium scale approach (MSA) for improved assessment of coral reef fish habitat. Journal of Experimental Marine Biology and Ecology, 2006, 333, 219-230.	1.5	54
31	Hierarchical drivers of reef-fish metacommunity structure. Ecology, 2009, 90, 252-264.	3.2	54
32	Isolation drives taxonomic and functional nestedness in tropical reef fish faunas. Ecography, 2017, 40, 425-435.	4.5	54
33	The Coral Sea. Advances in Marine Biology, 2013, 66, 213-290.	1.4	51
34	Reef accessibility impairs the protection of sharks. Journal of Applied Ecology, 2018, 55, 673-683.	4.0	46
35	Counting coral reef fishes: Interaction between fish life-history traits and transect design. Journal of Experimental Marine Biology and Ecology, 2010, 387, 15-23.	1.5	45
36	The use of fish parasites as biological indicators of anthropogenic influences in coral-reef lagoons: A case study of Apogonidae parasites in New-Caledonia. Marine Pollution Bulletin, 2007, 54, 1697-1706.	5.0	43

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37	Climate change and warm-water species at the north-western boundary of the Mediterranean Sea. <i>Marine Ecology</i> , 2015, 36, 897-909.	1.1	42
38	Human activities as a driver of spatial variation in the trophic structure of fish communities on Pacific coral reefs. <i>Global Change Biology</i> , 2018, 24, e67-e79.	9.5	42
39	Assessment of fish trophic status and relationships by stable isotope data in the coral reef lagoon of New Caledonia, southwest Pacific. <i>Aquatic Living Resources</i> , 2008, 21, 1-12.	1.2	42
40	Spatial structure of commercial reef fish communities along a terrestrial runoff gradient in the northern lagoon of New Caledonia. <i>Environmental Biology of Fishes</i> , 1998, 51, 141-159.	1.0	41
41	Trophic model of lagoonal communities in a large open atoll (Uvea, Loyalty islands, New Caledonia). <i>Aquatic Living Resources</i> , 2004, 17, 151-162.	1.2	41
42	Determinants of reef fish assemblages in tropical Oceanic islands. <i>Ecography</i> , 2019, 42, 77-87.	4.5	40
43	Delineating reef fish trophic guilds with global gut content data synthesis and phylogeny. <i>PLoS Biology</i> , 2020, 18, e3000702.	5.6	38
44	Does Herbivorous Fish Protection Really Improve Coral Reef Resilience? A Case Study from New Caledonia (South Pacific). <i>PLoS ONE</i> , 2013, 8, e60564.	2.5	37
45	Assessing key ecosystem functions through soundscapes: A new perspective from coral reefs. <i>Ecological Indicators</i> , 2019, 107, 105623.	6.3	36
46	Unexpected high vulnerability of functions in wilderness areas: evidence from coral reef fishes. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2016, 283, 20160128.	2.6	35
47	Comparative phylogeography of the western Indian Ocean reef fauna. <i>Acta Oecologica</i> , 2016, 72, 72-86.	1.1	35
48	Quantifying the shelter capacity of coral reefs using photogrammetric 3D modeling: From colonies to reefs. <i>Ecological Indicators</i> , 2021, 121, 107151.	6.3	35
49	Larval dispersal drives trophic structure across Pacific coral reefs. <i>Nature Communications</i> , 2014, 5, 5575.	12.8	33
50	A review of selected indicators of particle, nutrient and metal inputs in coral reef lagoon systems. <i>Aquatic Living Resources</i> , 2005, 18, 125-147.	1.2	32
51	The challenge of delineating biogeographical regions: nestedness matters for Indo-Pacific coral reef fishes. <i>Journal of Biogeography</i> , 2013, 40, 2228-2237.	3.0	32
52	Shore fishes of the Marquesas Islands, an updated checklist with new records and new percentage of endemic species. <i>Check List</i> , 2015, 11, 1758.	0.4	32
53	Plankton biomass and production in an open atoll lagoon: Uvea, New Caledonia. <i>Journal of Experimental Marine Biology and Ecology</i> , 1997, 212, 187-210.	1.5	30
54	Trait structure reveals the processes underlying fish establishment in the Mediterranean. <i>Global Ecology and Biogeography</i> , 2017, 26, 142-153.	5.8	28

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55	Towards multidisciplinary indicator dashboards for coral reef fisheries management. <i>Aquatic Living Resources</i> , 2005, 18, 199-213.	1.2	24
56	Opening of an MPA to fishing: Natural variations in the structure of a coral reef fish assemblage obscure changes due to fishing. <i>Journal of Experimental Marine Biology and Ecology</i> , 2007, 353, 145-163.	1.5	24
57	Trophic signature of coral reef fish assemblages: Towards a potential indicator of ecosystem disturbance. <i>Aquatic Living Resources</i> , 2005, 18, 103-109.	1.2	23
58	Life-history traits, geographical range, and conservation aspects of reef fishes from the Atlantic and Eastern Pacific. <i>Ecology</i> , 2021, 102, e03298.	3.2	23
59	Unusual reef fish biomass and functional richness at Malpelo, a remote island in the Tropical Eastern Pacific. <i>Environmental Biology of Fishes</i> , 2017, 100, 149-162.	1.0	21
60	A DNA barcode reference library of French Polynesian shore fishes. <i>Scientific Data</i> , 2019, 6, 114.	5.3	21
61	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
62	Estimation des stocks de poisson des lagons de Nouvelle-Calédonie: 1. Structure et stocks des communautés des poissons de récifs. <i>Aquatic Living Resources</i> , 2000, 13, 65-76.	1.2	20
63	Baseline study of the spatio-temporal patterns of reef fish assemblages prior to a major mining project in New Caledonia (South Pacific). <i>Marine Pollution Bulletin</i> , 2010, 61, 598-611.	5.0	20
64	Historical and contemporary determinants of global phylogenetic structure in tropical reef fish faunas. <i>Ecography</i> , 2016, 39, 825-835.	4.5	20
65	Extent of Mangrove Nursery Habitats Determines the Geographic Distribution of a Coral Reef Fish in a South-Pacific Archipelago. <i>PLoS ONE</i> , 2014, 9, e105158.	2.5	20
66	Patterns and processes in reef fish body size. , 2015, , 104-115.		19
67	No detectable effect of lionfish (<i>Pterois volitans</i> and <i>P. miles</i>) invasion on a healthy reef fish assemblage in Archipelago Los Roques National Park, Venezuela. <i>Marine Biology</i> , 2015, 162, 319-330.	1.5	19
68	Biological trade-offs underpin coral reef ecosystem functioning. <i>Nature Ecology and Evolution</i> , 2022, 6, 701-708.	7.8	18
69	Effects of fishing on fish assemblages in a coral reef ecosystem: From functional response to potential indicators. <i>Ecological Indicators</i> , 2014, 43, 227-235.	6.3	17
70	Responses of coral reef fishes to past climate changes are related to life-history traits. <i>Ecology and Evolution</i> , 2017, 7, 1996-2005.	1.9	15
71	A closer examination of the "abundant centre" hypothesis for reef fishes. <i>Journal of Biogeography</i> , 2020, 47, 2194-2209.	3.0	15
72	Low fuel cost and rising fish price threaten coral reef wilderness. <i>Conservation Letters</i> , 2020, 13, e12706.	5.7	14

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73	Community-wide scan identifies fish species associated with coral reef services across the Indo-Pacific. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2018, 285, 20181167.	2.6	13
74	A process-based model supports an association between dispersal and the prevalence of species traits in tropical reef fish assemblages. <i>Ecography</i> , 2019, 42, 2095-2106.	4.5	13
75	Patterns of taxonomic and functional diversity in the global cleaner reef fish fauna. <i>Journal of Biogeography</i> , 2021, 48, 2469-2485.	3.0	12
76	Considering multiple-species attributes to understand better the effects of successive changes in protection status on a coral reef fish assemblage. <i>ICES Journal of Marine Science</i> , 2009, 66, 170-179.	2.5	11
77	A step toward the definition of ecological indicators of the impact of fishing on the fish assemblage of the Aore reef reserve (New Caledonia). <i>Aquatic Living Resources</i> , 2004, 17, 139-149.	1.2	11
78	The contribution of macroalgae-associated fishes to small-scale tropical reef fisheries. <i>Fish and Fisheries</i> , 2022, 23, 847-861.	5.3	11
79	Congruent trophic pathways underpin global coral reef food webs. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	7.1	10
80	Checklist of the shorefishes of Ouvea Atoll New Caledonia. <i>Atoll Research Bulletin</i> , 1997, 444, 1-26.	0.2	9
81	Nondestructive Monitoring of Soft Bottom Fish and Habitats Using a Standardized, Remote and Unbaited 360° Video Sampling Method. <i>Fishes</i> , 2021, 6, 50.	1.7	8
82	Underwater photogrammetry reveals new links between coral reefscape traits and fishes that ensure key functions. <i>Ecosphere</i> , 2022, 13, .	2.2	7
83	Commercial fish assemblages on New Caledonian fringing reefs submitted to different levels of ground erosion. <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 1999, 22, 609-621.	0.7	6
84	Environmental determinants of coral reef fish diversity across several French Polynesian atolls. <i>Comptes Rendus - Biologies</i> , 2012, 335, 417-423.	0.2	5
85	Combining Passive Acoustics and Environmental Data for Scaling Up Ecosystem Monitoring: A Test on Coral Reef Fishes. <i>Remote Sensing</i> , 2022, 14, 2394.	4.0	5
86	Distribution spatiale des stocks de poissons récifaux d'intérêt commercial et effort de pêche en Province Nord de Nouvelle-Calédonie (Pacifique occidental). <i>Oceanologica Acta: European Journal of Oceanology - Revue Europeene De Oceanologie</i> , 2000, 23, 595-606.	0.7	4
87	Patterns of Local Distribution of Labroides Dimidiatus in French Polynesian Atolls. <i>Environmental Biology of Fishes</i> , 2002, 63, 9-15.	1.0	4
88	Can differences in the structure of larval, juvenile and adult coral reef fish assemblages be detected at the family level?. <i>Austral Ecology</i> , 2012, 37, 374-382.	1.5	3
89	Archipelago Los Roques: A potential baseline for reef fish assemblages in the southern Caribbean. <i>Aquatic Conservation: Marine and Freshwater Ecosystems</i> , 2017, 27, 1116-1132.	2.0	3
90	Biogeography of Butterflyfishes. , 2013, , 70-106.		3

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91	6. Basic Principles Underlying Research Projects On The Links Between The Ecology And The Uses Of Coral Reef Fishes In The Pacific. , 2004, , 119-158.		2
92	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
93	Functional and Taxonomic Overlap in Shore Fish Assemblages in a Tropical Seascape. Diversity, 2022, 14, 310.	1.7	1
94	Chapitre 36. Poissons rares ou endémiques, des acteurs méconnus qu'il faut préserver. , 2018, , 223-227.		0
95	Chapitre 16. La biodiversité fonctionnelle dans le lagon. , 2018, , 115-119.		0
96	Chapitre 14. Les poissons du Caillou se dévoilent. , 2018, , 103-107.		0