



Fiorenza Micheli

David and Lucile Packard Professor of Marine Science, Professor of Oceans, Senior Fellow at the Woods Institute for the Environment and Professor, by courtesy, of Biology

Bio

BIO

Fiorenza Micheli is co-director of Stanford's Center for Ocean Solutions, and a marine ecologist at the Hopkins Marine Station of Stanford University, where she is the David and Lucile Packard Professor of Marine Science. Micheli's research focuses on the processes shaping marine communities and coastal social-ecological systems, and incorporating this understanding in marine management and conservation. She investigates climatic impacts on marine ecosystems, particularly the impacts of hypoxia and ocean acidification on marine species, communities and fisheries, marine predators' ecology and trophic cascades, the dynamics and sustainability of small-scale fisheries, and the design and function of Marine Protected Areas. Her current research takes her to Mexico, Italy, and Palau, in addition to California. She is a Pew Fellow in Marine Conservation, a fellow of the California Academy of Sciences, research advisor to the Monterey Bay National Marine Sanctuary, Seafood Watch and the Benioff Ocean Initiative, and senior fellow at Stanford's Woods Institute for the Environment.

ACADEMIC APPOINTMENTS

- Professor, Oceans
- Senior Fellow, Stanford Woods Institute for the Environment
- Professor (By courtesy), Biology
- Senior Fellow, Stanford Woods Institute for the Environment

ADMINISTRATIVE APPOINTMENTS

- Co-director, Hopkins Marine Station, (2020-2022)
- Co-director, Center for Ocean Solutions, (2017- present)

LINKS

- Micheli Lab website: <https://michelilab.stanford.edu/>
- Center for Ocean Solutions: <https://oceansolutions.stanford.edu/>

Research & Scholarship

CURRENT RESEARCH AND SCHOLARLY INTERESTS

My research focuses on the processes and interactions shaping coastal marine communities and incorporating this understanding in the management and conservation of marine ecosystems. A primary focus of my research program has been in how disturbance and interactions between species underlie the organization, spatial variation, and temporal change in marine communities. In addition to addressing these basic ecological questions, my research seeks to apply community ecology to increase our understanding of human impacts on the marine environment and to design conservation and restoration strategies. Examples include quantifying the joint effects of fishing and climate change on marine ecosystems and incorporating our understanding of diversity patterns, species interactions, habitat-species linkages, and patterns

of human use of natural resources in the design and evaluation of marine reserve networks and marine zoning. I am currently co-directing the Stanford Center for Ocean Solutions, with Jim Leape.

To date, I have authored or co-authored over 200 peer-reviewed publications. I have advised over 20 postdocs, over 20 PhD students and nearly 100 undergraduate students at Stanford University. Currently my group includes four postdoctoral researchers and six PhD students conducting research in California, Baja California, Palau, The Chagos and Italy, and additional fellows and interns at COS. I have given over 300 presentations at conferences, symposia and at academic institutions, including ~150 invited presentations and ten lectures as the keynote speaker in international conferences. I have obtained grants from the US National Science Foundation, Environmental Protection Agency, NOAA, National Geographic Society, and private foundations, including funding for three large multi-institutional and interdisciplinary projects from the NSF – Coupled Natural-Human Systems program. I am a fellow of the California Academy of Science and the Aldo Leopold Leadership Program, past president of the Western Society of Naturalists, a Pew Fellow in Marine Conservation.

Teaching

COURSES

2023-24

- Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, OCEANS 123H, OCEANS 223H (Spr)
- Get to Know Your Oceans: OCEANS 300A (Aut)
- Planet Ocean: BIO 71, ESS 71, OCEANS 71 (Win)
- Scientific Communications: An Introduction: OCEANS 305 (Spr)

2022-23

- Catalyzing Solutions for a Sustainable Ocean: Learning with Local Communities: BIO 123, BIOHOPK 123H, BIOHOPK 223H, OCEANS 123, OCEANS 223 (Spr)
- Planet Ocean: BIO 71, ESS 71 (Win)

2021-22

- Managing Your PhD: BIO 305 (Aut, Spr)
- Planet Ocean: BIO 71, ESS 71 (Win)

2020-21

- Coral Reefs of the Western Pacific: Interdisciplinary Perspectives, Emerging Crises, and Solutions: BIO 355, BIOHOPK 355, CEE 363I, ESS 355 (Aut)
- Managing Your PhD: BIO 305 (Aut, Win, Spr)
- Topics in International Justice, Rights, and the Environment: ENVRES 215A, HUMRTS 118 (Spr)

STANFORD ADVISEES

Doctoral Dissertation Reader (AC)

Maurice Goodman

Postdoctoral Faculty Sponsor

Nur Arafeh Dalmau, Natalie Arnoldi, Carolina Olguin Jacobson

Doctoral Dissertation Advisor (AC)

Veronica Pagowski, Melissa Palmisciano, Ceyenna Tillman

Undergraduate Major Advisor

Jenny Jackson

Doctoral (Program)

Melissa Palmisciano, Ceyenna Tillman

GRADUATE AND FELLOWSHIP PROGRAM AFFILIATIONS

- Biology (School of Humanities and Sciences) (Phd Program)

Publications

PUBLICATIONS

- **Growth of juvenile red abalone (<i>Haliotis rufescens</i>) co-cultivated with two densities of warty sea cucumber (<i>Apostichopus parvimensis</i>)** *NEW ZEALAND JOURNAL OF MARINE AND FRESHWATER RESEARCH*
Bauer, J., Beas-Luna, R., Searcy-Bernal, R., Micheli, F., Vazquez-Vera, L., Boch, C., Carpizo-Ituarte, E., Lafarga-De la Cruz, F., Montano-Moctezuma, G., Lorda, J.
2024
- **Self-governance mediates small-scale fishing strategies, vulnerability and adaptive response** *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*
Frawley, T. H., Gonzalez-Mon, B., Nenadovic, M., Gladstone, F., Nomura, K., Zepeda-Dominguez, J., Rodriguez-Van Dyck, S., Ferrer, E. M., Torre, J., Micheli, F., Leslie, H. M., Basurto, X.
2024; 84
- **Social-ecological vulnerability to environmental extremes and adaptation pathways in small-scale fisheries of the southern California Current** *FRONTIERS IN MARINE SCIENCE*
Micheli, F., Saenz-Arroyo, A., Aalto, E., Beas-Luna, R., Boch, C. A., Cardenas, J., De Leo, G. A., Diaz, E., Espinoza-Montes, A., Finkbeiner, E., Freiwald, J., Fulton, S., Hernandez, et al
2024; 11
- **Functional changes across marine habitats due to ocean acidification.** *Global change biology*
Teixidó, N., Carlot, J., Alliouane, S., Ballesteros, E., De Vittor, C., Gambi, M. C., Gattuso, J. P., Kroeker, K., Micheli, F., Mirasole, A., Parravacini, V., Villéger, S.
2024; 30 (1): e17105
- **Functional changes across marine habitats due to ocean acidification** *GLOBAL CHANGE BIOLOGY*
Teixido, N., Carlot, J., Alliouane, S., Ballesteros, E., De Vittor, C., Gambi, M., Gattuso, J., Kroeker, K., Micheli, F., Mirasole, A., Parravacini, V., Villegger, S.
2024; 30 (1)
- **Seascape genomics of the pink abalone (*Haliotis corrugata*): An insight into a cross-border species in the northeast Pacific coast.** *The Journal of heredity*
Mares-Mayagoitia, J. A., Lafarga-De la Cruz, F., Micheli, F., Cruz-Hernandez, P., de-Anda-Montanez, J. A., Hyde, J., Hernandez-Saavedra, N. Y., Mejia-Ruiz, P., De Jesus-Bonilla, V. S., Vargas-Peralta, C. E., Valenzuela-Quinonez, F.
2023
- **Dynamic interplay: disentangling the temporal variability of fish effects on coral recruitment.** *Scientific reports*
McDevitt-Irwin, J. M., McCauley, D. J., Brumbaugh, D. R., Elmer, F., Ferretti, F., White, T. D., Wible, J. G., Micheli, F.
2023; 13 (1): 20971
- **Integrating climate adaptation and transboundary management: Guidelines for designing climate-smart marine protected areas** *ONE EARTH*
Arafeh-Dalmau, N., Munguia-Vega, A., Micheli, F., Vilalta-Navas, A., Villasenor-Derbez, J., Precoma-de la Mora, M., Schoeman, D. S., Medellin-Ortiz, A., Cavanaugh, K. C., Sosa-Nishizaki, O., Burnham, T. U., Knight, C. J., Woodson, et al
2023; 6 (11): 1523-1541
- **The Kelp Forest Challenge: A collaborative global movement to protect and restore 4 million hectares of kelp forests** *JOURNAL OF APPLIED PHYCOLOGY*
Eger, A., Aguirre, J., Altamirano, M., Arafeh-Dalmau, N., Arroyo, N., Bauer-Civiello, A. M., Beas-Luna, R., Bekkby, T., Bennett, S., Bernal, B., Blain, C. O., Boada, J., Branigan, et al
2023
- **Exploring climate-induced sex-based differences in aquatic and terrestrial ecosystems to mitigate biodiversity loss.** *Nature communications*
Gissi, E., Schiebinger, L., Hadly, E. A., Crowder, L. B., Santoleri, R., Micheli, F.
2023; 14 (1): 4787

- **Oxygen availability and body mass modulate ectotherm responses to ocean warming.** *Nature communications*
Duncan, M. I., Micheli, F., Boag, T. H., Marquez, J. A., Deres, H., Deutsch, C. A., Sperling, E. A.
2023; 14 (1): 3811
- **Vulnerability of blue foods to human-induced environmental change** *NATURE SUSTAINABILITY*
Cao, L., Halpern, B. S., Troell, M., Short, R., Zeng, C., Jiang, Z., Liu, Y., Zou, C., Liu, C., Liu, S., Liu, X., Cheung, W. L., Cottrell, et al
2023
- **Consumers decrease variability across space and turnover through time during coral reef succession.** *Oecologia*
McDevitt-Irwin, J. M., McCauley, D. J., Brumbaugh, D. R., Elmer, F., Ferretti, F., Joyce, F. H., White, T. D., Wible, J. G., Micheli, F.
2023
- **Sex analysis in marine biological systems: insights and opportunities** *FRONTIERS IN ECOLOGY AND THE ENVIRONMENT*
Gissi, E., Schiebinger, L., Santoleri, R., Micheli, F.
2023
- **Multi-taxa marine isoscapes provide insight into large-scale trophic dynamics in the North Pacific** *PROGRESS IN OCEANOGRAPHY*
Arnoldi, N. S., Litvin, S. Y., Madigan, D. J., Micheli, F., Carlisle, A.
2023; 213
- **Four ways blue foods can help achieve food system ambitions across nations.** *Nature*
Crona, B. I., Wassenius, E., Jonell, M., Koehn, J. Z., Short, R., Tigchelaar, M., Daw, T. M., Golden, C. D., Gephart, J. A., Allison, E. H., Bush, S. R., Cao, L., Cheung, et al
2023
- **Exploring multiple stressor effects with Ecopath, Ecosim, and Ecospace: Research designs, modeling techniques, and future directions.** *The Science of the total environment*
Stock, A., Murray, C. C., Gregr, E., Steenbeek, J., Woodburn, E., Micheli, F., Christensen, V., Chan, K. M.
2023: 161719
- **Comparing spatial patterns of marine vessels between vessel-tracking data and satellite imagery** *FRONTIERS IN MARINE SCIENCE*
Nakayama, S., Dong, W., Corroero, R. G., Selign, E. R., Wabnitz, C. C., Hastie, T. J., Leape, J., Yeung, S., Micheli, F.
2023; 9
- **Marine protected areas' positive effect on fish biomass persists across the steep climatic gradient of the Mediterranean Sea** *JOURNAL OF APPLIED ECOLOGY*
Frid, O., Malamud, S., Di Franco, A., Guidetti, P., Azzurro, E., Claudet, J., Micheli, F., Yahel, R., Sala, E., Belmaker, J.
2023
- **Priorities for synthesis research in ecology and environmental science** *ECOSPHERE*
Halpern, B. S., Boettiger, C., Dietze, M. C., Gephart, J. A., Gonzalez, P., Grimm, N. B., Groffman, P. M., Gurevitch, J., Hobbie, S. E., Komatsu, K. J., Kroeker, K. J., Lahr, H. J., Lodge, et al
2023; 14 (1)
- **Shortfalls in the protection of persistent bull kelp forests in the USA** *BIOLOGICAL CONSERVATION*
Arafah-Dalmau, N., Olguin-Jacobson, C., Bell, T. W., Micheli, F., Cavanaugh, K. C.
2023; 283
- **Data-poor ecological risk assessment of multiple stressors** *Ecological Informatics*
Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.
2023
- **Linking multiple stressor science to policy opportunities through network modeling** *MARINE POLICY*
Wedding, L. M., Green, S. J., Reiter, S., Arrigo, K. R., Hazen, L., Ruckelshaus, M., van der Grient, J. A., Bailey, R. M., Cameron, M. A., Leape, J., Levi, M., Merkl, A., Mills, et al
2022; 146
- **Aquaculture over-optimism?** *FRONTIERS IN MARINE SCIENCE*
Sumaila, U., Pierrucci, A., Oyinlola, M. A., Cannas, R., Froese, R., Glaser, S., Jacquet, J., Kaiser, B. A., Issifu, I., Micheli, F., Naylor, R., Pauly, D.
2022; 9

- **Using a social-ecological systems perspective to identify context specific actions to build resilience in small scale fisheries in Mexico** *FRONTIERS IN MARINE SCIENCE*
Valdez-Rojas, C., Beas-Luna, R., Lorda, J., Zepeda-Dominguez, J. A., Montano-Moctezuma, G., Medellin-Ortiz, A., Torre, J., Micheli, F.
2022; 9
- **OceanOptimism: Balancing the narrative about the future of the ocean (vol 9, 886027, 2022)** *FRONTIERS IN MARINE SCIENCE*
Borja, A., Elliott, M., Basurko, O. C., Muerza, A., Micheli, F., Zimmermann, F., Knowlton, N.
2022; 9
- **Trophic ecology of an abundant kelp forest echinoderm, the bat star *Patiria miniata*** *MARINE ECOLOGY PROGRESS SERIES*
Cryan, D. M., Low, N. N., Litvin, S. Y., Osenberg, C. W., Micheli, F.
2022; 696: 57-68
- **#OceanOptimism: Balancing the Narrative About the Future of the Ocean** *FRONTIERS IN MARINE SCIENCE*
Borja, A., Elliott, M., Basurko, O. C., Muerza, A., Micheli, F., Zimmermann, F., Knowlton, N.
2022; 9
- **Variability in grazing on juvenile giant kelp throughout an upwelling season** *MARINE ECOLOGY PROGRESS SERIES*
Ng, C. A., Micheli, F.
2022; 693: 83-93
- **Influence of Kelp Forest Biomass on Nearshore Currents** *JOURNAL OF GEOPHYSICAL RESEARCH-OCEANS*
Monismith, S. G., Alnajjar, M. W., Woodson, C., Boch, C. A., Hernandez, A., Vazquez-Vera, L., Bell, T. W., Micheli, F.
2022; 127 (7)
- **The vital roles of blue foods in the global food system** *GLOBAL FOOD SECURITY-AGRICULTURE POLICY ECONOMICS AND ENVIRONMENT*
Tigchelaar, M., Leape, J., Micheli, F., Allison, E. H., Basurto, X., Bennett, A., Bush, S. R., Cao, L., Cheung, W. L., Crona, B., DeClerck, F., Fanzo, J., Gelcich, et al
2022; 33
- **Greater resilience of reef fish assemblages in a no-take reserve compared to multi-use areas of the Gulf of California** *PROGRESS IN OCEANOGRAPHY*
Ramirez-Ortiz, G., Balart, E. F., Reyes-Bonilla, H., Huato-Soberanis, L., Cortes-Fuentes, C., Micheli, F.
2022; 204
- **A Scientific Synthesis of Marine Protected Areas in the United States: Status and Recommendations** *FRONTIERS IN MARINE SCIENCE*
Sullivan-Stack, J., Aburto-Oropeza, O., Brooks, C. M., Cabral, R. B., Caselle, J. E., Chan, F., Duffy, J., Dunn, D. C., Friedlander, A. M., Fulton-Bennett, H. K., Gaines, S. D., Gerber, L. R., Hines, et al
2022; 9
- **Resilient consumers accelerate the plant decomposition in a naturally acidified seagrass ecosystem.** *Global change biology*
Lee, J., Gambi, M. C., Kroeker, K. J., Munari, M., Peay, K., Micheli, F.
2022
- **Modelling the effect of habitat and fishing heterogeneity on the performance of a Total Allowable Catch-regulated fishery** *ICES JOURNAL OF MARINE SCIENCE*
Pourtois, J. D., Provost, M. M., Micheli, F., De Leo, G. A.
2022
- **Life history mediates the association between parasite abundance and geographic features.** *The Journal of animal ecology*
Williams, M. A., Faiad, S., Claar, D. C., French, B., Leslie, K. L., Oven, E., Guerra, A. S., Micheli, F., Zgliczynski, B. J., Haupt, A. J., Sandin, S. A., Wood, C. L.
2022
- **Local practices and production confer resilience to rural Pacific food systems during the COVID-19 pandemic.** *Marine policy*
Ferguson, C. E., Tuxson, T., Mangubhai, S., Jupiter, S., Govan, H., Bonito, V., Alefaio, S., Anjiga, M., Booth, J., Boslogo, T., Boso, D., Brenier, A., Caginitoba, et al
1800; 137: 104954
- **Rapid recovery of depleted abalone in Isla Natividad, Baja California, Mexico** *ECOSPHERE*
Smith, A., Aguilar, J., Boch, C., De Leo, G., Hernandez-Velasco, A., Houck, S., Martinez, R., Monismith, S., Torre, J., Woodson, C., Micheli, F.
2022; 13 (3)

- **Data about marine area-based management tools to assess their contribution to the UN sustainable development goals.** *Data in brief*
Gissi, E., Maes, F., Kyriazi, Z., Ruiz-Frau, A., Santos, C. F., Neumann, B., Quintela, A., Alves, F. L., Borg, S., Chen, W., Fernandes, M. d., Hadjimichael, M., Manea, et al
1800; 40: 107704
- **Contributions of marine area-based management tools to the UN sustainable development goals** *JOURNAL OF CLEANER PRODUCTION*
Gissi, E., Maes, F., Kyriazi, Z., Ruiz-Frau, A., Santos, C., Neumann, B., Quintela, A., Alves, F. L., Borg, S., Chen, W., Fernandes, M., Hadjimichael, M., Manea, et al
2022; 330
- **Emergent research and priorities for shark and ray conservation** *ENDANGERED SPECIES RESEARCH*
Jorgensen, S. J., Micheli, F., White, T. D., Van Houtan, K. S., Alfaro-Shigueto, J., Andrzejaczek, S., Arnoldi, N. S., Baum, J. K., Block, B., Britten, G. L., Butner, C., Caballero, S., Cardenosa, et al
2022; 47: 171-203
- **An integrated assessment of the Good Environmental Status of Mediterranean Marine Protected Areas.** *Journal of environmental management*
Fraschetti, S., Fabbrizzi, E., Tamburello, L., Uyarra, M. C., Micheli, F., Sala, E., Pipitone, C., Badalamenti, F., Bevilacqua, S., Boada, J., Cebrian, E., Ceccherelli, G., Chiantore, et al
1800; 305: 114370
- **Ecological dependencies make remote reef fish communities most vulnerable to coral loss.** *Nature communications*
Strona, G., Beck, P. S., Cabeza, M., Fattorini, S., Guilhaumon, F., Micheli, F., Montano, S., Ovaskainen, O., Planes, S., Veech, J. A., Parravicini, V.
1800; 12 (1): 7282
- **Integrating Biophysical, Socio-Economic and Governance Principles Into Marine Reserve Design and Management in Mexico: From Theory to Practice** *FRONTIERS IN MARINE SCIENCE*
de la Mora, M., Bennett, N. J., Fulton, S., Munguia-Vega, A., Lasch-Thaler, C., Walther-Mendoza, M., Zepeda-Dominguez, J., Finkbeiner, E., Green, A. L., Suarez, A., Weaver, A., Figueroa Carranza, A. R., Vega Velazquez, et al
2021; 8
- **Who wins or loses matters: Strongly interacting consumers drive seagrass resistance under ocean acidification.** *The Science of the total environment*
Lee, J., Hughes, B. B., Kroeker, K. J., Owens, A., Wong, C., Micheli, F.
2021: 151594
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems (vol 2, pg 733, 2021)** *NATURE FOOD*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021
- **Author Correction: Harnessing the diversity of small-scale actors is key to the future of aquatic food systems.** *Nature food*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021; 2 (10): 828
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems** *NATURE FOOD*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021
- **Compound climate risks threaten aquatic food system benefits** *NATURE FOOD*
Tigchelaar, M., Cheung, W. L., Mohammed, E., Phillips, M. J., Payne, H. J., Selig, E. R., Wabnitz, C. C., Oyinlola, M. A., Frolicher, T. L., Gephart, J. A., Golden, C. D., Allison, E. H., Bennett, et al
2021
- **Compound climate risks threaten aquatic food system benefits.** *Nature food*
Tigchelaar, M., Cheung, W. W., Mohammed, E. Y., Phillips, M. J., Payne, H. J., Selig, E. R., Wabnitz, C. C., Oyinlola, M. A., Frölicher, T. L., Gephart, J. A., Golden, C. D., Allison, E. H., Bennett, et al
2021; 2 (9): 673-682
- **Harnessing the diversity of small-scale actors is key to the future of aquatic food systems.** *Nature food*
Short, R. E., Gelcich, S., Little, D. C., Micheli, F., Allison, E. H., Basurto, X., Belton, B., Brugere, C., Bush, S. R., Cao, L., Crona, B., Cohen, P. J., Defeo, et al
2021; 2 (9): 733-741
- **Southward decrease in the protection of persistent giant kelp forests in the northeast Pacific** *COMMUNICATIONS EARTH & ENVIRONMENT*

- Arafeh-Dalmau, N., Cavanaugh, K. C., Possingham, H. P., Munguia-Vega, A., Montano-Moctezuma, G., Bell, T. W., Cavanaugh, K., Micheli, F.
2021; 2 (1)
- **Variable coastal hypoxia exposure and drivers across the southern California Current.** *Scientific reports*
Low, N. H., Micheli, F., Aguilar, J. D., Arce, D. R., Boch, C. A., Bonilla, J. C., Bracamontes, M. A., De Leo, G., Diaz, E., Enriquez, E., Hernandez, A., Martinez, R., Mendoza, et al
2021; 11 (1): 10929
 - **Redefining risk in data-poor fisheries** *FISH AND FISHERIES*
Grewelle, R. E., Mansfield, E., Micheli, F., De Leo, G.
2021
 - **Persistent gender bias in marine science and conservation calls for action to achieve equity** *BIOLOGICAL CONSERVATION*
Giakoumi, S., Pita, C., Coll, M., Frascchetti, S., Gissi, E., Katara, I., Lloret-Lloret, E., Rossi, F., Portman, M., Stelzenmueller, V., Micheli, F.
2021; 257
 - **In Memoriam Charles Henry Peterson** *MARINE ECOLOGY PROGRESS SERIES*
Lenihan, H. S., Grabowski, J., Micheli, F.
2021; 659: 2
 - **Correction to: Coupled beta diversity patterns among coral reef benthic taxa.** *Oecologia*
McDevitt-Irwin, J. M., Kappel, C. n., Harborne, A. R., Mumby, P. J., Brumbaugh, D. R., Micheli, F. n.
2021
 - **WTO must ban harmful fisheries subsidies.** *Science (New York, N.Y.)*
Sumaila, U. R., Skerritt, D. J., Schuhbauer, A., Villasante, S., Cisneros-Montemayor, A. M., Sinan, H., Burnside, D., Abdallah, P. R., Abe, K., Addo, K. A., Adelsheim, J., Adewumi, I. J., Adeyemo, et al
2021; 374 (6567): 544
 - **Mediterranean rocky reefs in the Anthropocene: Present status and future concerns.** *Advances in marine biology*
Bevilacqua, S., Airoidi, L., Ballesteros, E., Benedetti-Cecchi, L., Boero, F., Bulleri, F., Cebrian, E., Cerrano, C., Claudet, J., Colloca, F., Coppari, M., Di Franco, A., Frascchetti, et al
2021; 89: 1-51
 - **Derivation of Red Tide Index and Density Using Geostationary Ocean Color Imager (GOCI) Data** *REMOTE SENSING*
Lee, M., Park, K., Micheli, F.
2021; 13 (2)
 - **Coupled beta diversity patterns among coral reef benthic taxa.** *Oecologia*
McDevitt-Irwin, J. M., Kappel, C. n., Harborne, A. R., Mumby, P. J., Brumbaugh, D. R., Micheli, F. n.
2021
 - **A review of a decade of lessons from one of the world's largest MPAs: conservation gains and key challenges** *MARINE BIOLOGY*
Hays, G. C., Koldewey, H. J., Andrzejczek, S., Attrill, M. J., Barley, S., Bayley, D. I., Benkwitt, C. E., Block, B., Schallert, R. J., Carlisle, A. B., Carr, P., Chapple, T. K., Collins, et al
2020; 167 (11)
 - **Effects of marine noise pollution on Mediterranean fishes and invertebrates: A review.** *Marine pollution bulletin*
Di Franco, E., Pierson, P., Di Iorio, L., Calo, A., Cottalorda, J. M., Derijard, B., Di Franco, A., Galve, A., Guibbolini, M., Lebrun, J., Micheli, F., Priouzeau, F., Risso-de Faverney, et al
2020; 159: 111450
 - **Comparison of Cloud-Filling Algorithms for Marine Satellite Data** *REMOTE SENSING*
Stock, A., Subramaniam, A., Van Dijken, G. L., Wedding, L. M., Arrigo, K. R., Mills, M. M., Cameron, M. A., Micheli, F.
2020; 12 (20)
 - **Geographic variation in responses of kelp forest communities of the California Current to recent climatic changes.** *Global change biology*
Beas-Luna, R., Micheli, F., Woodson, C. B., Carr, M., Malone, D., Torre, J., Boch, C., Caselle, J. E., Edwards, M., Freiwald, J., Hamilton, S. L., Hernandez, A., Konar, et al
2020

- **A low-cost modular control system for multistressor experiments** *LIMNOLOGY AND OCEANOGRAPHY-METHODS*
Low, N. N., Ng, C. A., Micheli, F.
2020
- **Downscaling global ocean climate models improves estimates of exposure regimes in coastal environments.** *Scientific reports*
Fagundes, M., Litvin, S. Y., Micheli, F., De Leo, G., Boch, C. A., Barry, J. P., Omidvar, S., Woodson, C. B.
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