

Moninya Roughan

List of Publications by Year in descending order

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100
papers

4,160
citations

126907

33
h-index

133252

59
g-index

111
all docs

111
docs citations

111
times ranked

4209
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | The tropicalization of temperate marine ecosystems: climate-mediated changes in herbivory and community phase shifts. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2014, 281, 20140846. | 2.6 | 679 |
| 2 | A comparison of observed upwelling mechanisms off the east coast of Australia. <i>Continental Shelf Research</i> , 2002, 22, 2551-2572. | 1.8 | 169 |
| 3 | Long-term trends in the East Australian Current separation latitude and eddy driven transport. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4351-4366. | 2.6 | 116 |
| 4 | On the East Australian Current: Variability, encroachment, and upwelling. <i>Journal of Geophysical Research</i> , 2004, 109, . | 3.3 | 109 |
| 5 | WEST: A northern California study of the role of wind-driven transport in the productivity of coastal plankton communities. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2833-2849. | 1.4 | 104 |
| 6 | Variation in the strength of continental boundary currents determines continent-wide connectivity in kelp. <i>Journal of Ecology</i> , 2011, 99, 1026-1032. | 4.0 | 102 |
| 7 | Subsurface recirculation and larval retention in the lee of a small headland: A variation on the upwelling shadow theme. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 92 |
| 8 | Subsurface intensification of marine heatwaves off southeastern Australia: The role of stratification and local winds. <i>Geophysical Research Letters</i> , 2017, 44, 5025-5033. | 4.0 | 85 |
| 9 | OceanGliders: A Component of the Integrated GOOS. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 83 |
| 10 | Modelling coastal connectivity in a Western Boundary Current: Seasonal and inter-annual variability. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 628-644. | 1.4 | 81 |
| 11 | IMOS National Reference Stations: A Continental-Wide Physical, Chemical and Biological Coastal Observing System. <i>PLoS ONE</i> , 2014, 9, e113652. | 2.5 | 81 |
| 12 | Sydney Harbour: a review of anthropogenic impacts on the biodiversity and ecosystem function of one of the world. <i>Marine and Freshwater Research</i> , 2015, 66, 1088. | 1.3 | 73 |
| 13 | Cross-Shelf Dynamics in a Western Boundary Current Regime: Implications for Upwelling. <i>Journal of Physical Oceanography</i> , 2013, 43, 1042-1059. | 1.7 | 72 |
| 14 | Characterizing frontal eddies along the East Australian Current from HF radar observations. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3964-3980. | 2.6 | 66 |
| 15 | Strengthened currents override the effect of warming on lobster larval dispersal and survival. <i>Global Change Biology</i> , 2015, 21, 4377-4386. | 9.5 | 65 |
| 16 | On the Variability of the East Australian Current: Jet Structure, Meandering, and Influence on Shelf Circulation. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 8464-8481. | 2.6 | 65 |
| 17 | Revisiting the circulation of the East Australian Current: Its path, separation, and eddy field. <i>Progress in Oceanography</i> , 2019, 176, 102139. | 3.2 | 65 |
| 18 | Relative impact of seasonal and oceanographic drivers on surface chlorophyll a along a Western Boundary Current. <i>Progress in Oceanography</i> , 2014, 120, 340-351. | 3.2 | 64 |

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|----|--|-----|-----------|
| 19 | Observed bottom boundary layer transport and uplift on the continental shelf adjacent to a western boundary current. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 4922-4939. | 2.6 | 62 |
| 20 | Anticipating changes to future connectivity within a network of marine protected areas. <i>Global Change Biology</i> , 2017, 23, 3533-3542. | 9.5 | 60 |
| 21 | A tale of two eddies: The biophysical characteristics of two contrasting cyclonic eddies in the East Australian Current system. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 2494-2518. | 2.6 | 53 |
| 22 | Sydney Harbour: what we do and do not know about a highly diverse estuary. <i>Marine and Freshwater Research</i> , 2015, 66, 1073. | 1.3 | 49 |
| 23 | The effect of surface flooding on the physical–biogeochemical dynamics of a warm-core eddy off southeast Australia. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 592-605. | 1.4 | 48 |
| 24 | On the factors influencing the development of sporadic upwelling in the Leeuwin Current system. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 3608-3621. | 2.6 | 47 |
| 25 | Development and evaluation of a high-resolution reanalysis of the East Australian Current region using the Regional Ocean Modelling System (ROMS 3.4) and Incremental Strong-Constraint 4-Dimensional Variational (IS4D-Var) data assimilation. <i>Geoscientific Model Development</i> , 2016, 9, 3779-3801. | 3.6 | 46 |
| 26 | Phytoplankton composition under contrasting oceanographic conditions: Upwelling and downwelling (Eastern Australia). <i>Continental Shelf Research</i> , 2014, 75, 54-67. | 1.8 | 45 |
| 27 | Mass-transfer-limited nitrate uptake on a coral reef flat, Warraber Island, Torres Strait, Australia. <i>Coral Reefs</i> , 2004, 23, 386-396. | 2.2 | 43 |
| 28 | Observations of divergence and upwelling around Point Loma, California. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 40 |
| 29 | Global Perspectives on Observing Ocean Boundary Current Systems. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 39 |
| 30 | Temperate shelf water dispersal by Australian boundary currents: Implications for population connectivity. <i>Limnology & Oceanography Fluids & Environments</i> , 2013, 3, 295-309. | 1.7 | 38 |
| 31 | Environmental drivers of abundance and residency of a large migratory shark, <i>Carcharhinus leucas</i> , inshore of a dynamic western boundary current. <i>Marine Ecology - Progress Series</i> , 2019, 622, 121-137. | 1.9 | 37 |
| 32 | Transport and retention in an upwelling region: The role of across-shelf structure. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2006, 53, 2931-2955. | 1.4 | 36 |
| 33 | Temperature variability in a shallow, tidally isolated coral reef lagoon. <i>Journal of Geophysical Research</i> , 2010, 115, . | 3.3 | 36 |
| 34 | Cyclonic entrainment of preconditioned shelf waters into a frontal eddy. <i>Journal of Geophysical Research: Oceans</i> , 2015, 120, 677-691. | 2.6 | 35 |
| 35 | Influence of a western boundary current on shelf dynamics and upwelling from repeat glider deployments. <i>Geophysical Research Letters</i> , 2015, 42, 121-128. | 4.0 | 35 |
| 36 | A Modeling Study of the Climatological Current Field and the Trajectories of Upwelled Particles in the East Australian Current. <i>Journal of Physical Oceanography</i> , 2003, 33, 2551-2564. | 1.7 | 34 |

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|----|--|-----|-----------|
| 37 | Multiple spawning events promote increased larval dispersal of a predatory fish in a western boundary current. <i>Fisheries Oceanography</i> , 2020, 29, 309-323. | 1.7 | 33 |
| 38 | Oceanic Circulation Drives the Deepest and Longest Marine Heatwaves in the East Australian Current System. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094785. | 4.0 | 33 |
| 39 | Seasonality of sporadic physical processes driving temperature and nutrient high-frequency variability in the coastal ocean off southeast Australia. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 445-460. | 2.6 | 32 |
| 40 | Characteristic ichthyoplankton taxa in the separation zone of the East Australian Current: Larval assemblages as tracers of coastal mixing. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 678-690. | 1.4 | 31 |
| 41 | The Importance of Connected Ocean Monitoring Knowledge Systems and Communities. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 31 |
| 42 | Eddy-Driven Cross-Shelf Transport in the East Australian Current Separation Zone. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015613. | 2.6 | 31 |
| 43 | Downstream Evolution of the East Australian Current System: Mean Flow, Seasonal, and Intra-annual Variability. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015227. | 2.6 | 29 |
| 44 | Physical and biogeochemical spatial scales of variability in the East Australian Current separation from shelf glider measurements. <i>Biogeosciences</i> , 2016, 13, 1967-1975. | 3.3 | 28 |
| 45 | Lagrangian and Eulerian characterization of two counter-rotating submesoscale eddies in a western boundary current. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 4902-4921. | 2.6 | 28 |
| 46 | Dynamics of Interannual Eddy Kinetic Energy Modulations in a Western Boundary Current. <i>Geophysical Research Letters</i> , 2021, 48, . | 4.0 | 27 |
| 47 | Observation Impact in a Regional Reanalysis of the East Australian Current System. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 7511-7528. | 2.6 | 26 |
| 48 | Seasonal variability in the continental shelf waters off southeastern Australia: Fact or fiction?. <i>Continental Shelf Research</i> , 2016, 112, 92-103. | 1.8 | 25 |
| 49 | Environmental correlates of relative abundance of potentially dangerous sharks in nearshore areas, southeastern Australia. <i>Marine Ecology - Progress Series</i> , 2018, 599, 157-179. | 1.9 | 25 |
| 50 | The formation of a cold-core eddy in the East Australian Current. <i>Continental Shelf Research</i> , 2016, 114, 72-84. | 1.8 | 24 |
| 51 | Coastal Mooring Observing Networks and Their Data Products: Recommendations for the Next Decade. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 24 |
| 52 | The Rate of Coastal Temperature Rise Adjacent to a Warming Western Boundary Current is Nonuniform with Latitude. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090751. | 4.0 | 24 |
| 53 | Observations of Submesoscale Variability and Frontal Subduction within the Mesoscale Eddy Field of the Tasman Sea. <i>Journal of Physical Oceanography</i> , 2020, 50, 1509-1529. | 1.7 | 23 |
| 54 | Finding a proxy for wind stress over the coastal ocean. <i>Marine and Freshwater Research</i> , 2012, 63, 528. | 1.3 | 23 |

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|----|--|-----|-----------|
| 55 | Evaluation of four global ocean reanalysis products for New Zealand watersâ€”A guide for regional ocean modelling. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2021, 55, 132-155. | 2.0 | 22 |
| 56 | Spill-over from aquaculture may provide a larval subsidy for the restoration of mussel reefs. <i>Aquaculture Environment Interactions</i> , 2020, 12, 231-249. | 1.8 | 22 |
| 57 | Interactions between seasonality and oceanic forcing drive the phytoplankton variability in the tropical-temperate transition zone (~ 30Å°S) of Eastern Australia. <i>Journal of Marine Systems</i> , 2015, 144, 92-106. | 2.1 | 21 |
| 58 | The Kinematic Similarity of Two Western Boundary Currents Revealed by Sustained High-Resolution Observations. <i>Geophysical Research Letters</i> , 2018, 45, 6176-6185. | 4.0 | 21 |
| 59 | Retention and Leakage of Water by Mesoscale Eddies in the East Australian Current System. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 2485-2500. | 2.6 | 21 |
| 60 | Combined mechanistic modelling predicts changes in species distribution and increased co-occurrence of a tropical urchin herbivore and a habitat-forming temperate kelp. <i>Diversity and Distributions</i> , 2020, 26, 1211-1226. | 4.1 | 20 |
| 61 | Sustained Ocean Observing along the Coast of Southeastern Australia. , 2015, , 76-98. | | 19 |
| 62 | Oceanographic conditions associated with white shark (<i>Carcharodon carcharias</i>) habitat use along eastern Australia. <i>Marine Ecology - Progress Series</i> , 2021, 659, 143-159. | 1.9 | 18 |
| 63 | Mesoscale circulation determines broad spatio-temporal settlement patterns of lobster. <i>PLoS ONE</i> , 2019, 14, e0211722. | 2.5 | 18 |
| 64 | Linking synoptic forcing and local mesoscale processes with biological dynamics off Ningaloo Reef. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 1211-1225. | 2.6 | 16 |
| 65 | A numerical modeling study of the East Australian Current encircling and overwashing a warm-core eddy. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 301-315. | 2.6 | 16 |
| 66 | Assessment of Surface Currents Measured With High-Frequency Phased-Array Radars in Two Regions of Complex Circulation. <i>IEEE Journal of Oceanic Engineering</i> , 2018, 43, 484-505. | 3.8 | 15 |
| 67 | Comparison of the cross-shelf phytoplankton distribution of two oceanographically distinct regions off Australia. <i>Journal of Marine Systems</i> , 2015, 148, 26-38. | 2.1 | 14 |
| 68 | Numerical modelling of the Sydney Harbour Estuary, New South Wales: Lateral circulation and asymmetric vertical mixing. <i>Estuarine, Coastal and Shelf Science</i> , 2019, 217, 132-147. | 2.1 | 14 |
| 69 | Mean hydrography on the continental shelf from 26 repeat glider deployments along Southeastern Australia. <i>Scientific Data</i> , 2016, 3, 160070. | 5.3 | 13 |
| 70 | Efficacy of Feedforward and LSTM Neural Networks at Predicting and Gap Filling Coastal Ocean Timeseries: Oxygen, Nutrients, and Temperature. <i>Frontiers in Marine Science</i> , 2021, 8, . | 2.5 | 13 |
| 71 | NSW-IMOS: An Integrated Marine Observing System for Southeastern Australia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2010, 11, 012030. | 0.3 | 12 |
| 72 | Developing an Integrated Ocean Observing System for New Zealand. <i>Frontiers in Marine Science</i> , 2019, 6, . | 2.5 | 12 |

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|----|--|-----|-----------|
| 73 | Transport variability over the Hawkesbury Shelf (31.5°–34.5°S) driven by the East Australian Current. PLoS ONE, 2020, 15, e0241622. | 2.5 | 12 |
| 74 | Shelf Transport Pathways Adjacent to the East Australian Current Reveal Sources of Productivity for Coastal Reefs. Frontiers in Marine Science, 2022, 8, . | 2.5 | 12 |
| 75 | Predicting the submesoscale circulation inshore of the East Australian Current. Journal of Marine Systems, 2020, 204, 103286. | 2.1 | 11 |
| 76 | A Water Mass Classification Approach to Tracking Variability in the East Australian Current. Frontiers in Marine Science, 2020, 7, . | 2.5 | 11 |
| 77 | Why the Mixed Layer Depth Matters When Diagnosing Marine Heatwave Drivers Using a Heat Budget Approach. Frontiers in Climate, 2022, 4, . | 2.8 | 11 |
| 78 | Formation and maintenance of high-nitrate, low pH layers in the eastern Indian Ocean and the role of nitrogen fixation. Biogeosciences, 2013, 10, 5691-5702. | 3.3 | 10 |
| 79 | Assessing the Use of Area- and Time-Averaging Based on Known De-correlation Scales to Provide Satellite Derived Sea Surface Temperatures in Coastal Areas. Frontiers in Marine Science, 2018, 5, . | 2.5 | 10 |
| 80 | A high-resolution biogeochemical model (ROMS 3.4%+%bio_Fennel) of the East Australian Current system. Geoscientific Model Development, 2019, 12, 441-456. | 3.6 | 10 |
| 81 | Connectivity of Estuaries. , 2011, , 119-142. | | 7 |
| 82 | Using high-resolution ocean timeseries data to give context to long term hydrographic sampling off Port Hacking, NSW, Australia. , 2011, , . | | 7 |
| 83 | Impact of Mesoscale Circulation on the Structure of River Plumes During Large Rainfall Events Inshore of the East Australian Current. Frontiers in Marine Science, 2022, 9, . | 2.5 | 7 |
| 84 | A National Reference Station infrastructure for Australia - Using telemetry and central processing to report multi-disciplinary data streams for monitoring marine ecosystem response to climate change. , 2008, , . | | 6 |
| 85 | Nitrate Sources, Supply, and Phytoplankton Growth in the Great Australian Bight: An Eulerian-Lagrangian Modeling Approach. Journal of Geophysical Research: Oceans, 2018, 123, 759-772. | 2.6 | 6 |
| 86 | Future ocean temperature impacting the survival prospects of post-larval spiny lobsters. Marine Environmental Research, 2020, 156, 104918. | 2.5 | 6 |
| 87 | The Global Ocean Observing System. , 0, , . | | 6 |
| 88 | Multi-decadal ocean temperature time-series and climatologies from Australia's long-term National Reference Stations. Scientific Data, 2022, 9, 157. | 5.3 | 6 |
| 89 | Assessing the Impact of Nontraditional Ocean Observations for Prediction of the East Australian Current. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016580. | 2.6 | 5 |
| 90 | Daily Subsurface Ocean Temperature Climatology Using Multiple Data Sources: New Methodology. Frontiers in Marine Science, 2020, 7, . | 2.5 | 5 |

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|-----|--|-----|-----------|
| 91 | Entrainment and development of larval fish assemblages in two contrasting cold core eddies of the East Australian Current system. <i>Marine Ecology - Progress Series</i> , 2022, 685, 1-18. | 1.9 | 5 |
| 92 | An assessment of the East Australian Current as a renewable energy resource. <i>Journal of Marine Systems</i> , 2020, 204, 103285. | 2.1 | 3 |
| 93 | The physics of New Zealand's shelf seas: introduction to the special issue. <i>New Zealand Journal of Marine and Freshwater Research</i> , 2021, 55, 1-5. | 2.0 | 2 |
| 94 | An International Perspective on Graduate Education in Physical Oceanography. <i>Oceanography</i> , 2003, 16, 128-133. | 1.0 | 2 |
| 95 | The Marine Virtual Laboratory (version 2.1): enabling efficient ocean model configuration. <i>Geoscientific Model Development</i> , 2016, 9, 3297-3307. | 3.6 | 1 |
| 96 | East Australian Current. , 2019, , 340-350. | | 1 |
| 97 | Boundary Ocean Observation Network for the Global South. <i>Marine Technology Society Journal</i> , 2021, 55, 80-81. | 0.4 | 1 |
| 98 | Kick-off symposium series to help New Ph.D.s is a success. <i>Eos</i> , 2002, 83, 512. | 0.1 | 0 |
| 99 | Building multidisciplinary collaboration in coastal and ocean modelling and observation in Australasia. <i>Journal of Marine Systems</i> , 2020, 206, 103319. | 2.1 | 0 |
| 100 | Shelf and Coastal Ocean Observing and Modeling Systems: A New Frontier in Operational Oceanography. , 0, , . | | 0 |