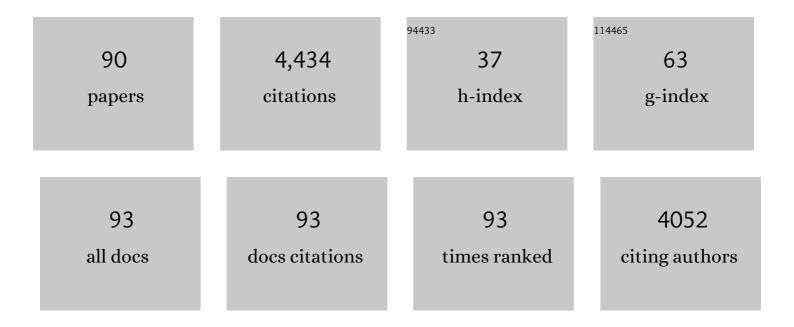
Andrew F Thompson

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Mixing in the Southern Ocean. , 2022, , 301-327. | | 6 |
| 2 | Indo-Pacific Warming Induced by a Weakening of the Atlantic Meridional Overturning Circulation. Journal of Climate, 2022, 35, 815-832. | 3.2 | 12 |
| 3 | Bathymetric Control of Subpolar Gyres and the Overturning Circulation in the Southern Ocean. Journal of Physical Oceanography, 2022, 52, 205-223. | 1.7 | 8 |
| 4 | Separating Energetic Internal Gravity Waves and Smallâ€ s cale Frontal Dynamics. Geophysical Research Letters, 2022, 49, . | 4.0 | 6 |
| 5 | How Does Antarctic Bottom Water Cross the Southern Ocean?. Geophysical Research Letters, 2022, 49, | 4.0 | 28 |
| 6 | The Dailyâ€Resolved Southern Ocean Mixed Layer: Regional Contrasts Assessed Using Glider Observations. Journal of Geophysical Research: Oceans, 2022, 127, . | 2.6 | 7 |
| 7 | Heavy footprints of upper-ocean eddies on weakened Arctic sea ice in marginal ice zones. Nature Communications, 2022, 13, 2147. | 12.8 | 14 |
| 8 | Enhanced Ventilation in Energetic Regions of the Antarctic Circumpolar Current. Geophysical Research Letters, 2022, 49, . | 4.0 | 9 |
| 9 | A pole-to-equator ocean overturning circulation on Enceladus. Nature Geoscience, 2021, 14, 185-189. | 12.9 | 29 |
| 10 | Stirring of Seaâ€lce Meltwater Enhances Submesoscale Fronts in the Southern Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016814. | 2.6 | 19 |
| 11 | The Evolution and Arrest of a Turbulent Stratified Oceanic Bottom Boundary Layer over a Slope: Upslope Regime and PV Dynamics. Journal of Physical Oceanography, 2021, 51, 1077-1089. | 1.7 | 7 |
| 12 | The Shelf Circulation of the Bellingshausen Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016871. | 2.6 | 9 |
| 13 | lce‧helf Meltwater Overturning in the Bellingshausen Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016957. | 2.6 | 6 |
| 14 | Observational Evidence of Ventilation Hotspots in the Southern Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017178. | 2.6 | 15 |
| 15 | Exploration of Icy Ocean Worlds Using Geophysical Approaches. Planetary Science Journal, 2021, 2, 150. | 3.6 | 14 |
| 16 | A hemispheric asymmetry in poleward ocean heat transport across climates: Implications for overturning and polar warming. Earth and Planetary Science Letters, 2021, 568, 117033. | 4.4 | 3 |
| 17 | Resolvent analysis of stratification effects on wall-bounded shear flows. Physical Review Fluids, 2021, 6, . | 2.5 | 7 |
| 18 | The Antarctic Coastal Current in the Bellingshausen Sea. Cryosphere, 2021, 15, 4179-4199. | 3.9 | 10 |

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|----|--|------|-----------|
| 19 | The Vertical Structure of Open-Ocean Submesoscale Variability during a Full Seasonal Cycle. Journal of Physical Oceanography, 2020, 50, 145-160. | 1.7 | 22 |
| 20 | Enhanced upward heat transport at deep submesoscale ocean fronts. Nature Geoscience, 2020, 13, 50-55. | 12.9 | 84 |
| 21 | Genesis of the Antarctic Slope Current in West Antarctica. Geophysical Research Letters, 2020, 47, e2020GL087802. | 4.0 | 28 |
| 22 | Centennial Changes in the Indonesian Throughflow Connected to the Atlantic Meridional Overturning Circulation: The Ocean's Transient Conveyor Belt. Geophysical Research Letters, 2020, 47, e2020GL090615. | 4.0 | 13 |
| 23 | Altimetry-Based Diagnosis of Deep-Reaching Sub-Mesoscale Ocean Fronts. Fluids, 2020, 5, 145. | 1.7 | 9 |
| 24 | Highâ€Frequency Submesoscale Motions Enhance the Upward Vertical Heat Transport in the Global Ocean. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016544. | 2.6 | 35 |
| 25 | Submesoscale Fronts in the Antarctic Marginal Ice Zone and Their Response to Wind Forcing. Geophysical Research Letters, 2020, 47, e2019GL086649. | 4.0 | 22 |
| 26 | Enhanced eddy activity in the Beaufort Gyre in response to sea ice loss. Nature Communications, 2020, 11, 761. | 12.8 | 65 |
| 27 | Transient Overturning Compensation between Atlantic and Indo-Pacific Basins. Journal of Physical Oceanography, 2020, 50, 2151-2172. | 1.7 | 18 |
| 28 | Global Estimates of the Energy Transfer From the Wind to the Ocean, With Emphasis on Nearâ€Inertial Oscillations. Journal of Geophysical Research: Oceans, 2019, 124, 5723-5746. | 2.6 | 36 |
| 29 | Constraining Southern Ocean Air-Sea-Ice Fluxes Through Enhanced Observations. Frontiers in Marine Science, 2019, 6, . | 2.5 | 31 |
| 30 | Phytoplankton spring bloom initiation: The impact of atmospheric forcing and light in the temperate North Atlantic Ocean. Progress in Oceanography, 2019, 178, 102202. | 3.2 | 40 |
| 31 | Remote Sensing of Chlorophyll Fluorescence in the Ocean Using Imaging Spectrometry: Toward a Vertical Profile of Fluorescence. Geophysical Research Letters, 2019, 46, 1571-1579. | 4.0 | 11 |
| 32 | A Southern Ocean Mechanism for the Interhemispheric Coupling and Phasing of the Bipolar Seesaw. Journal of Climate, 2019, 32, 4347-4365. | 3.2 | 11 |
| 33 | The Role of the Southern Ocean in Abrupt Transitions and Hysteresis in Glacial Ocean Circulation. Paleoceanography and Paleoclimatology, 2019, 34, 490-510. | 2.9 | 7 |
| 34 | Southern Ocean Seasonal Restratification Delayed by Submesoscale Wind–Front Interactions. Journal of Physical Oceanography, 2019, 49, 1035-1053. | 1.7 | 48 |
| 35 | Atlantic Ocean Heat Transport Enabled by Indoâ€Pacific Heat Uptake and Mixing. Geophysical Research Letters, 2019, 46, 13939-13949. | 4.0 | 16 |
| 36 | The Evolution and Arrest of a Turbulent Stratified Oceanic Bottom Boundary Layer over a Slope: Downslope Regime. Journal of Physical Oceanography, 2019, 49, 469-487. | 1.7 | 14 |

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|----|--|------|-----------|
| 37 | Ocean submesoscales as a key component of the global heat budget. Nature Communications, 2018, 9, 775. | 12.8 | 255 |
| 38 | Dynamic Topography and Sea Level Anomalies of the Southern Ocean: Variability and Teleconnections. Journal of Geophysical Research: Oceans, 2018, 123, 613-630. | 2.6 | 85 |
| 39 | The Antarctic Slope Current in a Changing Climate. Reviews of Geophysics, 2018, 56, 741-770. | 23.0 | 180 |
| 40 | Reassessing the Role of the Indoâ€Pacific in the Ocean's Global Overturning Circulation. Geophysical Research Letters, 2018, 45, 12,422. | 4.0 | 21 |
| 41 | The Seasonality of Physically Driven Export at Submesoscales in the Northeast Atlantic Ocean. Global Biogeochemical Cycles, 2018, 32, 1144-1162. | 4.9 | 32 |
| 42 | Abrupt Transitions in Submesoscale Structure in Southern Drake Passage: Glider Observations and Model Results. Journal of Physical Oceanography, 2018, 48, 2011-2027. | 1.7 | 47 |
| 43 | Eddy Memory Mode of Multidecadal Variability in Residual-Mean Ocean Circulations with Application to the Beaufort Cyre. Journal of Physical Oceanography, 2017, 47, 855-866. | 1.7 | 28 |
| 44 | ACC Meanders, Energy Transfer, and Mixed Barotropic–Baroclinic Instability. Journal of Physical Oceanography, 2017, 47, 1291-1305. | 1.7 | 48 |
| 45 | Variability of the Antarctic Slope Current System in the Northwestern Weddell Sea. Journal of Physical Oceanography, 2017, 47, 2977-2997. | 1.7 | 27 |
| 46 | Contribution of topographically generated submesoscale turbulence to Southern Ocean overturning. Nature Geoscience, 2017, 10, 840-845. | 12.9 | 42 |
| 47 | Submesoscale Sea Iceâ€Ocean Interactions in Marginal Ice Zones. Journal of Geophysical Research: Oceans, 2017, 122, 9455-9475. | 2.6 | 81 |
| 48 | The influence of meridional ice transport on Europa's ocean stratification and heat content. Geophysical Research Letters, 2017, 44, 5969-5977. | 4.0 | 26 |
| 49 | Testing Munk's hypothesis for submesoscale eddy generation using observations in the North Atlantic. Journal of Geophysical Research: Oceans, 2017, 122, 6725-6745. | 2.6 | 22 |
| 50 | The vertical structure of upper ocean variability at the Porcupine Abyssal Plain during 2012–2013. Journal of Geophysical Research: Oceans, 2016, 121, 3075-3089. | 2.6 | 32 |
| 51 | Ocean Convective Available Potential Energy. Part I: Concept and Calculation. Journal of Physical Oceanography, 2016, 46, 1081-1096. | 1.7 | 16 |
| 52 | Ocean Convective Available Potential Energy. Part II: Energetics of Thermobaric Convection and Thermobaric Cabbeling. Journal of Physical Oceanography, 2016, 46, 1097-1115. | 1.7 | 17 |
| 53 | Circulation and meltwater distribution in the Bellingshausen Sea: From shelf break to coast. Geophysical Research Letters, 2016, 43, 6402-6409. | 4.0 | 40 |
| 54 | A Multibasin Residual-Mean Model for the Global Overturning Circulation. Journal of Physical Oceanography, 2016, 46, 2583-2604. | 1.7 | 42 |

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|----|--|------|-----------|
| 55 | An advective mechanism for deep chlorophyll maxima formation in southern Drake Passage. Geophysical Research Letters, 2016, 43, 10,846. | 4.0 | 22 |
| 56 | Lagrangian pathways of upwelling in the Southern Ocean. Journal of Geophysical Research: Oceans, 2016, 121, 6295-6309. | 2.6 | 20 |
| 57 | Bottom Boundary Potential Vorticity Injection from an Oscillating Flow: A PV Pump. Journal of Physical Oceanography, 2016, 46, 3509-3526. | 1.7 | 7 |
| 58 | Eddy Generation and Jet Formation via Dense Water Outflows across the Antarctic Continental Slope. Journal of Physical Oceanography, 2016, 46, 3729-3750. | 1.7 | 42 |
| 59 | A Theory of the Wind-Driven Beaufort Gyre Variability. Journal of Physical Oceanography, 2016, 46, 3263-3278. | 1.7 | 44 |
| 60 | Seasonality of submesoscale flows in the ocean surface boundary layer. Geophysical Research Letters, 2016, 43, 2118-2126. | 4.0 | 104 |
| 61 | Open-Ocean Submesoscale Motions: A Full Seasonal Cycle of Mixed Layer Instabilities from Gliders. Journal of Physical Oceanography, 2016, 46, 1285-1307. | 1.7 | 155 |
| 62 | Marine ice-sheet profiles and stability under Coulomb basal conditions. Journal of Glaciology, 2015, 61, 205-215. | 2.2 | 117 |
| 63 | Estimating Oceanic Primary Production Using Vertical Irradiance and Chlorophyll Profiles from Ocean Cliders in the North Atlantic. Environmental Science & Technology, 2015, 49, 11612-11621. | 10.0 | 46 |
| 64 | The glacial midâ€depth radiocarbon bulge and its implications for the overturning circulation. Paleoceanography, 2015, 30, 1021-1039. | 3.0 | 61 |
| 65 | Weddell Sea Export Pathways from Surface Drifters. Journal of Physical Oceanography, 2015, 45, 1068-1085. | 1.7 | 23 |
| 66 | Eddyâ€mediated transport of warm Circumpolar Deep Water across the Antarctic Shelf Break. Geophysical Research Letters, 2015, 42, 432-440. | 4.0 | 168 |
| 67 | Multidecadal warming of Antarctic waters. Science, 2014, 346, 1227-1231. | 12.6 | 346 |
| 68 | Antarctic sea ice control on ocean circulation in present and glacial climates. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 8753-8758. | 7.1 | 295 |
| 69 | Eddy transport as a key component of the Antarctic overturning circulation. Nature Geoscience, 2014, 7, 879-884. | 12.9 | 93 |
| 70 | On the Importance of Surface Forcing in Conceptual Models of the Deep Ocean. Journal of Physical Oceanography, 2014, 44, 891-899. | 1.7 | 21 |
| 71 | An Idealized Model of Weddell Gyre Export Variability. Journal of Physical Oceanography, 2014, 44, 1671-1688. | 1.7 | 52 |
| 72 | Equilibration of the Antarctic Circumpolar Current by Standing Meanders. Journal of Physical Oceanography, 2014, 44, 1811-1828. | 1.7 | 103 |

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|----|--|-----|-----------|
| 73 | Ocean processes at the Antarctic continental slope. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2014, 372, 20130047. | 3.4 | 45 |
| 74 | Connecting Antarctic Cross-Slope Exchange with Southern Ocean Overturning. Journal of Physical Oceanography, 2013, 43, 1453-1471. | 1.7 | 69 |
| 75 | Surface exchange between the Weddell and Scotia Seas. Geophysical Research Letters, 2013, 40, 5920-5925. | 4.0 | 22 |
| 76 | Sensitivity of the ocean's deep overturning circulation to easterly Antarctic winds. Geophysical Research Letters, 2012, 39, . | 4.0 | 38 |
| 77 | Jets and Topography: Jet Transitions and the Impact on Transport in the Antarctic Circumpolar Current. Journal of Physical Oceanography, 2012, 42, 956-972. | 1.7 | 129 |
| 78 | The Formation of Nonzonal Jets over Sloped Topography. Journal of Physical Oceanography, 2012, 42, 1635-1651. | 1.7 | 23 |
| 79 | Low frequency variability of Southern Ocean jets. Journal of Geophysical Research, 2011, 116, . | 3.3 | 32 |
| 80 | The impact of highâ€frequency current variability on dispersion off the eastern Antarctic Peninsula. Journal of Geophysical Research, 2011, 116, . | 3.3 | 2 |
| 81 | Rapid Southern Ocean front transitions in an eddyâ€resolving ocean GCM. Geophysical Research Letters, 2010, 37, . | 4.0 | 40 |
| 82 | Jet Formation and Evolution in Baroclinic Turbulence with Simple Topography. Journal of Physical Oceanography, 2010, 40, 257-278. | 1.7 | 77 |
| 83 | Surface Circulation at the Tip of the Antarctic Peninsula from Drifters. Journal of Physical Oceanography, 2009, 39, 3-26. | 1.7 | 110 |
| 84 | Ocean circulation. Geophysical Monograph Series, 2009, , 99-118. | 0.1 | 4 |
| 85 | Frontal structure and transport in the northwestern Weddell Sea. Deep-Sea Research Part I: Oceanographic Research Papers, 2008, 55, 1229-1251. | 1.4 | 64 |
| 86 | The atmospheric ocean: eddies and jets in the Antarctic Circumpolar Current. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 4529-4541. | 3.4 | 50 |
| 87 | Two-Layer Baroclinic Eddy Heat Fluxes: Zonal Flows and Energy Balance. Journals of the Atmospheric Sciences, 2007, 64, 3214-3231. | 1.7 | 88 |
| 88 | Spatial and Temporal Patterns of Small-Scale Mixing in Drake Passage. Journal of Physical Oceanography, 2007, 37, 572-592. | 1.7 | 59 |
| 89 | Scaling Baroclinic Eddy Fluxes: Vortices and Energy Balance. Journal of Physical Oceanography, 2006, 36, 720-738. | 1.7 | 84 |
| 90 | Solidification and compositional convection of a ternary alloy. Journal of Fluid Mechanics, 2003, 497, 167-199. | 3.4 | 19 |