## Gregory C Johnson

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Argo—Two Decades: Global Oceanography, Revolutionized. Annual Review of Marine Science, 2022, 14, 379-403.	11.6	37
2	GOSML: A Global Ocean Surface Mixed Layer Statistical Monthly Climatology: Means, Percentiles, Skewness, and Kurtosis. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	11
3	Serendipitous Internal Wave Signals in Deep Argo Data. Geophysical Research Letters, 2022, 49, .	4.0	1
4	Evaluating Twenty‥ear Trends in Earth's Energy Flows From Observations and Reanalyses. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	13
5	Coastal Ocean Data Analysis Product in North America (CODAP-NA) – an internally consistent data product for discrete inorganic carbon, oxygen, and nutrients on the North American ocean margins. Earth System Science Data, 2021, 13, 2777-2799.	9.9	14
6	Satellite and Ocean Data Reveal Marked Increase in Earth's Heating Rate. Geophysical Research Letters, 2021, 48, e2021GL093047.	4.0	93
7	Warming trends increasingly dominate global ocean. Nature Climate Change, 2020, 10, 757-761.	18.8	100
8	Antarctic Bottom Water Warming in the Brazil Basin: 1990s Through 2020, From WOCE to Deep Argo. Geophysical Research Letters, 2020, 47, e2020GL089191.	4.0	22
9	Argo Data 1999–2019: Two Million Temperature-Salinity Profiles and Subsurface Velocity Observations From a Global Array of Profiling Floats. Frontiers in Marine Science, 2020, 7, .	2.5	117
10	Subsurface Evolution and Persistence of Marine Heatwaves in the Northeast Pacific. Geophysical Research Letters, 2020, 47, e2020GL090548.	4.0	58
11	Heat stored in the Earth system: where does the energy go?. Earth System Science Data, 2020, 12, 2013-2041.	9.9	181
12	Comments on "Corrections for Pumped SBE 41CP CTDs Determined from Stratified Tank Experiments― Journal of Atmospheric and Oceanic Technology, 2020, 37, 351-355.	1.3	2
13	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. Frontiers in Marine Science, 2019, 6, .	2.5	235
14	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. Frontiers in Marine Science, 2019, 6, .	2.5	123
15	SMART Cables for Observing the Global Ocean: Science and Implementation. Frontiers in Marine Science, 2019, 6, .	2.5	73
16	The Global Ocean Ship-Based Hydrographic Investigations Program (GO-SHIP): A Platform for Integrated Multidisciplinary Ocean Science. Frontiers in Marine Science, 2019, 6, .	2.5	60
17	Equatorial Pacific 1,000â€dbar Velocity and Isotherm Displacements From Argo Data: Beyond the Mean and Seasonal Cycle. Journal of Geophysical Research: Oceans, 2019, 124, 7873-7882.	2.6	7
18	Pacific Anthropogenic Carbon Between 1991 and 2017. Global Biogeochemical Cycles, 2019, 33, 597-617.	4.9	35

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19	Deep Argo Quantifies Bottom Water Warming Rates in the Southwest Pacific Basin. Geophysical Research Letters, 2019, 46, 2662-2669.	4.0	46
20	Unabated Bottom Water Warming and Freshening in the South Pacific Ocean. Journal of Geophysical Research: Oceans, 2019, 124, 1778-1794.	2.6	34
21	Semiannual Variations in 1,000â€dbar Equatorial Indian Ocean Velocity and Isotherm Displacements from Argo Data. Journal of Geophysical Research: Oceans, 2019, 124, 9507-9516.	2.6	8
22	Ocean Warming: From the Surface to the Deep in Observations and Models. Oceanography, 2018, 31, 41-51.	1.0	33
23	Warming From Recent Marine Heatwave Lingers in Deep British Columbia Fjord. Geophysical Research Letters, 2018, 45, 9757-9764.	4.0	50
24	State of the Climate in 2017. Bulletin of the American Meteorological Society, 2018, 99, Si-S310.	3.3	160
25	Global sea-level budget 1993–present. Earth System Science Data, 2018, 10, 1551-1590.	9.9	409
26	On the climate impacts of atolls in the central equatorial Pacific. International Journal of Climatology, 2017, 37, 197-203.	3.5	5
27	As El Niño builds, Pacific Warm Pool expands, ocean gains more heat. Geophysical Research Letters, 2017, 44, 438-445.	4.0	29
28	Middepth decadal warming and freshening in the South Atlantic. Journal of Geophysical Research: Oceans, 2017, 122, 973-979.	2.6	13
29	Zonal evolution of Alaskan Stream structure and transport quantified with Argo data. Journal of Geophysical Research: Oceans, 2017, 122, 821-833.	2.6	1
30	Deep Bering Sea Circulation and Variability, 2001–2016, From Argo Data. Journal of Geophysical Research: Oceans, 2017, 122, 9765-9779.	2.6	3
31	The Argo Program: Present and Future. Oceanography, 2017, 30, 18-28.	1.0	86
32	State of the Climate in 2016. Bulletin of the American Meteorological Society, 2017, 98, Si-S280.	3.3	132
33	Equatorial Pacific Thermostad response to El Niño. Journal of Geophysical Research: Oceans, 2016, 121, 8368-8378.	2.6	2
34	State of the Climate in 2015. Bulletin of the American Meteorological Society, 2016, 97, Si-S275.	3.3	142
35	Deep and abyssal ocean warming from 35Âyears of repeat hydrography. Geophysical Research Letters, 2016, 43, 10,356.	4.0	110
36	Improving estimates of Earth's energy imbalance. Nature Climate Change, 2016, 6, 639-640.	18.8	97

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37	Sensitivity of Global Upper-Ocean Heat Content Estimates to Mapping Methods, XBT Bias Corrections, and Baseline Climatologies*. Journal of Climate, 2016, 29, 4817-4842.	3.2	83
38	Industrial-era global ocean heat uptake doubles in recent decades. Nature Climate Change, 2016, 6, 394-398.	18.8	127
39	Subantarctic and Polar Fronts of the Antarctic Circumpolar Current and Southern Ocean Heat and Freshwater Content Variability: A View from Argo. Journal of Physical Oceanography, 2016, 46, 749-768.	1.7	21
40	Changes in Ocean Heat, Carbon Content, and Ventilation: A Review of the First Decade of GO-SHIP Global Repeat Hydrography. Annual Review of Marine Science, 2016, 8, 185-215.	11.6	183
41	Basin-Wavelength Equatorial Deep Jet Signals across Three Oceans. Journal of Physical Oceanography, 2015, 45, 2134-2148.	1.7	18
42	Informing Deep Argo Array Design Using Argo and Full-Depth Hydrographic Section Data. Journal of Atmospheric and Oceanic Technology, 2015, 32, 2187-2198.	1.3	78
43	Anomalous eddy heat and freshwater transport in the <scp>G</scp> ulf of <scp>A</scp> laska. Journal of Geophysical Research: Oceans, 2015, 120, 1397-1408.	2.6	7
44	State of the Climate in 2014. Bulletin of the American Meteorological Society, 2015, 96, ES1-ES32.	3.3	78
45	State of the Climate in 2013. Bulletin of the American Meteorological Society, 2014, 95, S1-S279.	3.3	138
46	Antarctic <scp>B</scp> ottom <scp>W</scp> ater temperature changes in the western <scp>S</scp> outh <scp>A</scp> tlantic from 1989 to 2014. Journal of Geophysical Research: Oceans, 2014, 119, 8567-8577.	2.6	27
47	Relative contributions of ocean mass and deep steric changes to sea level rise between 1993 and 2013. Journal of Geophysical Research: Oceans, 2014, 119, 7509-7522.	2.6	37
48	Estimating Global Ocean Heat Content Changes in the Upper 1800 m since 1950 and the Influence of Climatology Choice*. Journal of Climate, 2014, 27, 1945-1957.	3.2	80
49	Where's the heat?. Nature Climate Change, 2014, 4, 956-957.	18.8	10
50	Observations: Ocean Pages. , 2014, , 255-316.		113
51	Evaluation of Climate Models. , 2014, , 741-866.		458
52	Summary for Policymakers. , 2014, , 45-64.		1
53	Global ocean surface velocities from drifters: Mean, variance, El Niño–Southern Oscillation response, and seasonal cycle. Journal of Geophysical Research: Oceans, 2013, 118, 2992-3006.	2.6	202
54	A review of global ocean temperature observations: Implications for ocean heat content estimates and climate change. Reviews of Geophysics, 2013, 51, 450-483.	23.0	367

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55	MIMOC: A global monthly isopycnal upperâ€ocean climatology with mixed layers. Journal of Geophysical Research: Oceans, 2013, 118, 1658-1672.	2.6	211
56	Energy budget constraints on climate response. Nature Geoscience, 2013, 6, 415-416.	12.9	270
57	Antarctic Bottom Water Warming and Freshening: Contributions to Sea Level Rise, Ocean Freshwater Budgets, and Global Heat Gain*. Journal of Climate, 2013, 26, 6105-6122.	3.2	220
58	State of the Climate in 2012. Bulletin of the American Meteorological Society, 2013, 94, S1-S258.	3.3	129
59	Decadal waterâ€property trends in the California Undercurrent, with implications for ocean acidification. Journal of Geophysical Research: Oceans, 2013, 118, 6687-6703.	2.6	53
60	Ocean bottom pressure seasonal cycles and decadal trends from GRACE Releaseâ€05: Ocean circulation implications. Journal of Geophysical Research: Oceans, 2013, 118, 4228-4240.	2.6	85
61	An Equatorial Ocean Bottleneck in Global Climate Models. Journal of Climate, 2012, 25, 343-349.	3.2	25
62	State of the Climate in 2011. Bulletin of the American Meteorological Society, 2012, 93, S1-S282.	3.3	121
63	Relative contributions of temperature and salinity to seasonal mixed layer density changes and horizontal density gradients. Journal of Geophysical Research, 2012, 117, .	3.3	60
64	Oxygen decreases and variability in the eastern equatorial Pacific. Journal of Geophysical Research, 2012, 117, .	3.3	35
65	Global Contraction of Antarctic Bottom Water between the 1980s and 2000s*. Journal of Climate, 2012, 25, 5830-5844.	3.2	177
66	Observed changes in top-of-the-atmosphere radiation and upper-ocean heating consistent within uncertainty. Nature Geoscience, 2012, 5, 110-113.	12.9	293
67	Silicon stable isotope distribution traces Southern Ocean export of Si to the eastern South Pacific thermocline. Biogeosciences, 2012, 9, 4199-4213.	3.3	36
68	Multidecadal Warming and Shoaling of Antarctic Intermediate Water*. Journal of Climate, 2012, 25, 207-221.	3.2	51
69	Deep Signatures of Southern Tropical Indian Ocean Annual Rossby Waves*. Journal of Physical Oceanography, 2011, 41, 1958-1964.	1.7	20
70	Ocean Density Change Contributions to Sea Level Rise. Oceanography, 2011, 24, 112-121.	1.0	23
71	State of the Climate in 2010. Bulletin of the American Meteorological Society, 2011, 92, S1-S236.	3.3	135
72	Robust warming of the global upper ocean. Nature, 2010, 465, 334-337.	27.8	340

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73	Equatorial Pacific 13°C Water Eddies in the Eastern Subtropical South Pacific Ocean*. Journal of Physical Oceanography, 2010, 40, 226-236.	1.7	56
74	Eastern Pacific oxygen minimum zones: Supply paths and multidecadal changes. Journal of Geophysical Research, 2010, 115, .	3.3	118
75	Ocean oxygen minima expansions and their biological impacts. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 587-595.	1.4	479
76	Warming of Global Abyssal and Deep Southern Ocean Waters between the 1990s and 2000s: Contributions to Global Heat and Sea Level Rise Budgets*. Journal of Climate, 2010, 23, 6336-6351.	3.2	544
77	State of the Climate in 2009. Bulletin of the American Meteorological Society, 2010, 91, s1-s222.	3.3	121
78	Progress and Challenges in Monitoring Ocean Temperature and Heat Content. , 2010, , .		2
79	The Argo Program: Observing the Global Oceans with Profiling Floats. Oceanography, 2009, 22, 34-43.	1.0	451
80	In Situ Data Biases and Recent Ocean Heat Content Variability*. Journal of Atmospheric and Oceanic Technology, 2009, 26, 846-852.	1.3	73
81	The WOCE-era 3-D Pacific Ocean circulation and heat budget. Progress in Oceanography, 2009, 82, 281-325.	3.2	57
82	Deep Caribbean Sea warming. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 827-834.	1.4	6
83	Ocean climate change fingerprints attenuated by salt fingering?. Geophysical Research Letters, 2009, 36, .	4.0	13
84	State of the Climate in 2008. Bulletin of the American Meteorological Society, 2009, 90, S1-S196.	3.3	74
85	Quantifying Antarctic Bottom Water and North Atlantic Deep Water volumes. Journal of Geophysical Research, 2008, 113, .	3.3	249
86	Expanding Oxygen-Minimum Zones in the Tropical Oceans. Science, 2008, 320, 655-658.	12.6	1,229
87	Warming and Freshening in the Abyssal Southeastern Indian Ocean*. Journal of Climate, 2008, 21, 5351-5363.	3.2	90
88	Equatorial Kelvin wave influences may reach the Bering Sea during 2002 to 2005. Geophysical Research Letters, 2008, 35, .	4.0	13
89	Reduced Antarctic meridional overturning circulation reaches the North Atlantic Ocean. Geophysical Research Letters, 2008, 35, .	4.0	45
90	Evolution of the Deep and Bottom Waters of the Scotia Sea, Southern Ocean, during 1995–2005*. Journal of Climate, 2008, 21, 3327-3343.	3.2	70

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91	Estimating Annual Global Upper-Ocean Heat Content Anomalies despite Irregular In Situ Ocean Sampling*. Journal of Climate, 2008, 21, 5629-5641.	3.2	87
92	State of the Climate in 2007. Bulletin of the American Meteorological Society, 2008, 89, S1-S179.	3.3	36
93	Sensor Corrections for Sea-Bird SBE-41CP and SBE-41 CTDs. Journal of Atmospheric and Oceanic Technology, 2007, 24, 1117-1130.	1.3	56
94	Recent Bottom Water Warming in the Pacific Ocean*. Journal of Climate, 2007, 20, 5365-5375.	3.2	84
95	Distinct 17- and 33-Day Tropical Instability Waves in Subsurface Observations*. Journal of Physical Oceanography, 2007, 37, 855-872.	1.7	97
96	State of the Climate in 2006. Bulletin of the American Meteorological Society, 2007, 88, 929-932.	3.3	14
97	Correction to "Recent cooling of the upper ocean― Geophysical Research Letters, 2007, 34, .	4.0	65
98	Decadal water mass variations along 20°W in the Northeastern Atlantic Ocean. Progress in Oceanography, 2007, 73, 277-295.	3.2	77
99	Some controls on flow and salinity in Bering Strait. Geophysical Research Letters, 2006, 33, .	4.0	107
100	Recent cooling of the upper ocean. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	75
101	Correction to "Recent western South Atlantic bottom water warming― Geophysical Research Letters, 2006, 33, .	4.0	2
102	Recent western South Atlantic bottom water warming. Geophysical Research Letters, 2006, 33, .	4.0	66
103	Generation and Initial Evolution of a Mode Water Î,–S Anomaly*. Journal of Physical Oceanography, 2006, 36, 739-751.	1.7	42
104	State of the Climate in 2005. Bulletin of the American Meteorological Society, 2006, 87, s1-s102.	3.3	39
105	Multivariate Error Covariance Estimates by Monte Carlo Simulation for Assimilation Studies in the Pacific Ocean. Monthly Weather Review, 2005, 133, 2310-2334.	1.4	21
106	Comparisons of Scatterometer and TAO Winds Reveal Time-Varying Surface Currents for the Tropical Pacific Ocean*. Journal of Atmospheric and Oceanic Technology, 2005, 22, 735-745.	1.3	17
107	Labrador Sea Water property variations in the northeastern Atlantic Ocean. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	18
108	Recent interannual upper ocean variability in the deep southeastern Bering Sea. Journal of Marine Research, 2005, 63, 381-405.	0.3	16

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109	Physical oceanographic conditions during GasEx-2001. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	4
110	A mixed layer carbon budget for the GasEx-2001 experiment. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	16
111	Eastern equatorial Pacific Ocean T-S variations with El Niño. Geophysical Research Letters, 2004, 31, .	4.0	8
112	The Bering Slope Current System Revisited*. Journal of Physical Oceanography, 2004, 34, 384-398.	1.7	45
113	Equatorially trapped Rossby waves in the presence of meridionally sheared baroclinic flow in the Pacific Ocean. Progress in Oceanography, 2003, 56, 323-380.	3.2	69
114	South Pacific Eastern Subtropical Mode Water*. Journal of Physical Oceanography, 2003, 33, 1493-1509.	1.7	69
115	Delayed-Mode Calibration of Autonomous CTD Profiling Float Salinity Data byl̂j–SClimatology*. Journal of Atmospheric and Oceanic Technology, 2003, 20, 308-318.	1.3	168
116	Structure of the Atlantic Ocean Equatorial Deep Jets*. Journal of Physical Oceanography, 2003, 33, 600-609.	1.7	25
117	Sverdrup and Nonlinear Dynamics of the Pacific Equatorial Currents*. Journal of Physical Oceanography, 2003, 33, 994-1008.	1.7	86
118	A comparison of kinematic evidence for tropical cells in the Atlantic and Pacific oceans. Elsevier Oceanography Series, 2003, , 269-286.	0.1	14
119	The Pacific Cold Tongue: A Pathway for Interhemispheric Exchange*. Journal of Physical Oceanography, 2003, 33, 1027-1043.	1.7	46
120	Temporal and Spatial Structure of the Equatorial Deep Jets in the Pacific Ocean*. Journal of Physical Oceanography, 2002, 32, 3396-3407.	1.7	24
121	The overflows across the Ninetyeast Ridge. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1423-1439.	1.4	15
122	Volume transport and property distributions of the Mozambique Channel. Deep-Sea Research Part II: Topical Studies in Oceanography, 2002, 49, 1481-1511.	1.4	75
123	Direct measurements of upper ocean currents and water properties across the tropical Pacific during the 1990s. Progress in Oceanography, 2002, 52, 31-61.	3.2	305
124	Hydrography, nutrients, and carbon pools in the Pacific sector of the Southern Ocean: Implications for carbon flux. Journal of Geophysical Research, 2001, 106, 7107-7124.	3.3	27
125	Ocean currents evident in satellite wind data. Geophysical Research Letters, 2001, 28, 2469-2472.	4.0	158
126	The Pacific Ocean Subtropical cell surface limb. Geophysical Research Letters, 2001, 28, 1771-1774.	4.0	51

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127	Consistency and synthesis of Pacific Ocean CO2 survey data. Deep-Sea Research Part II: Topical Studies in Oceanography, 2001, 49, 21-58.	1.4	59
128	Systematic Adjustments of Hydrographic Sections for Internal Consistency*. Journal of Atmospheric and Oceanic Technology, 2001, 18, 1234-1244.	1.3	69
129	Vertical Velocities and Transports in the Equatorial Pacific during 1993–99*. Journal of Physical Oceanography, 2001, 31, 3230-3248.	1.7	38
130	Equatorial Pacific Ocean Horizontal Velocity, Divergence, and Upwelling*. Journal of Physical Oceanography, 2001, 31, 839-849.	1.7	151
131	Pacific Equatorial Subsurface Countercurrent Velocity, Transport, and Potential Vorticity*. Journal of Physical Oceanography, 2000, 30, 1172-1187.	1.7	74
132	Upper equatorial Pacific Ocean current and salinity variability during the 1996-1998 El Niño-La Niña cycle. Journal of Geophysical Research, 2000, 105, 1037-1053.	3.3	79
133	Interior Pycnocline Flow from the Subtropical to the Equatorial Pacific Ocean*. Journal of Physical Oceanography, 1999, 29, 3073-3089.	1.7	198
134	Circulation, mixing, and production of Antarctic Bottom Water. Progress in Oceanography, 1999, 43, 55-109.	3.2	858
135	Flow of bottom and deep water in the Amirante Passage and Mascarene Basin. Journal of Geophysical Research, 1998, 103, 30973-30984.	3.3	23
136	Deep water properties, velocities, and dynamics over ocean trenches. Journal of Marine Research, 1998, 56, 329-347.	0.3	47
137	The Pacific Subsurface Countercurrents and an Inertial Model*. Journal of Physical Oceanography, 1997, 27, 2448-2459.	1.7	47
138	Deep tracer and dynamical plumes in the tropical Pacific Ocean. Journal of Geophysical Research, 1997, 102, 24953-24964.	3.3	16
139	Southwest Pacific Ocean Water-Mass Changes between 1968/69 and 1990/91*â€. Journal of Climate, 1997, 10, 306-316.	3.2	63
140	Abyssal currents generated by diffusion and geothermal heating over rises. Deep-Sea Research Part I: Oceanographic Research Papers, 1996, 43, 193-211.	1.4	23
141	Detection of and response to a probable volcanogenic T-wave event swarm on the Western Blanco Transform Fault Zone. Geophysical Research Letters, 1996, 23, 873-876.	4.0	20
142	Revised XCTD Fall-Rate Equation Coefficients from CTD Data. Journal of Atmospheric and Oceanic Technology, 1995, 12, 1367-1373.	1.3	26
143	Deep, Zonal Subequatorial Currents. Science, 1994, 263, 1125-1128.	12.6	47
144	Bottom water variability in the Samoa Passage. Journal of Marine Research, 1994, 52, 177-196.	0.3	39

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145	Frictionally Modified Rotating Hydraulic Channel Exchange and Ocean Outflows. Journal of Physical Oceanography, 1994, 24, 66-78.	1.7	54
146	Stress on the Mediterranean Outflow Plume: Part I. Velocity and Water Property Measurements. Journal of Physical Oceanography, 1994, 24, 2072-2083.	1.7	56
147	Stress on the Mediterranean Outflow Plume: Part II. Turbulent Dissipation and Shear Measurements. Journal of Physical Oceanography, 1994, 24, 2084-2092.	1.7	83
148	Mediterranean Outflow Mixing and Dynamics. Science, 1993, 259, 1277-1282.	12.6	159
149	A deep inertial jet on a sloping bottom near the equator. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1781-1792.	1.4	8
150	Flow of deep and bottom waters in the Pacific at 10°N. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 371-394.	1.4	114
151	Secondary Circulation in the Faroe Bank Channel Outflow. Journal of Physical Oceanography, 1992, 22, 927-933.	1.7	73
152	Deep currents in the Arabian Sea in 1987. Marine Geology, 1992, 104, 279-288.	2.1	22
153	A deep boundary current in the Arabian Basin. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 653-661.	1.5	22
154	Flow of bottom water in the Somali Basin. Deep-sea Research Part A, Oceanographic Research Papers, 1991, 38, 637-652.	1.5	40
155	On the size of the Antarctic Circumpolar Current. Deep-sea Research Part A, Oceanographic Research Papers, 1989, 36, 39-53.	1.5	237
156	Impact of ocean currents on scatterometer winds in the tropical Pacific Ocean. , 0, , .		1
157	Shallow Overturning Circulations of the Tropical-Subtropical Oceans. Geophysical Monograph Series, 0, , 261-304.	0.1	114