

Andrew J Watson

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2968785/publications.pdf>

Version: 2024-02-01

175
papers

18,400
citations

20817

60
h-index

13379

130
g-index

179
all docs

179
docs citations

179
times ranked

16194
citing authors

#	ARTICLE	IF	CITATIONS
1	Climatological mean and decadal change in surface ocean pCO ₂ , and net sea-air CO ₂ flux over the global oceans. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2009, 56, 554-577.	1.4	1,540
2	Global Carbon Budget 2020. <i>Earth System Science Data</i> , 2020, 12, 3269-3340.	9.9	1,477
3	A mesoscale phytoplankton bloom in the polar Southern Ocean stimulated by iron fertilization. <i>Nature</i> , 2000, 407, 695-702.	27.8	1,417
4	In situ evaluation of air-sea gas exchange parameterizations using novel conservative and volatile tracers. <i>Global Biogeochemical Cycles</i> , 2000, 14, 373-387.	4.9	1,177
5	Transition from maternal to embryonic control in early mammalian development: A comparison of several species. <i>Molecular Reproduction and Development</i> , 1990, 26, 90-100.	2.0	802
6	Global Carbon Budget 2017. <i>Earth System Science Data</i> , 2018, 10, 405-448.	9.9	801
7	Global Carbon Budget 2021. <i>Earth System Science Data</i> , 2022, 14, 1917-2005.	9.9	663
8	Mixing of a tracer in the pycnocline. <i>Journal of Geophysical Research</i> , 1998, 103, 21499-21529.	3.3	488
9	The dynamics of a rapidly escaping atmosphere: Applications to the evolution of Earth and Venus. <i>Icarus</i> , 1981, 48, 150-166.	2.5	473
10	A multi-decade record of high-quality atmospheric CO ₂ data in version 3 of the Surface Ocean CO ₂ Atlas (SOCAT). <i>Earth System Science Data</i> , 2016, 8, 383-413.	9.9	413
11	Expression of growth factor ligand and receptor genes in the preimplantation bovine embryo. <i>Molecular Reproduction and Development</i> , 1992, 31, 87-95.	2.0	295
12	Nitrogen-enhanced greenhouse warming on early Earth. <i>Nature Geoscience</i> , 2009, 2, 891-896.	12.9	247
13	Bistability of atmospheric oxygen and the Great Oxidation. <i>Nature</i> , 2006, 443, 683-686.	27.8	243
14	On the Future of Argo: A Global, Full-Depth, Multi-Disciplinary Array. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	235
15	Biological homeostasis of the global environment: the parable of Daisyworld. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 1983, 35B, 284-289.	1.6	223
16	A variable and decreasing sink for atmospheric CO ₂ in the North Atlantic. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	195
17	Redfield revisited: 1. Regulation of nitrate, phosphate, and oxygen in the ocean. <i>Global Biogeochemical Cycles</i> , 2000, 14, 225-248.	4.9	182
18	Tracking the Variable North Atlantic Sink for Atmospheric CO ₂ . <i>Science</i> , 2009, 326, 1391-1393.	12.6	173

#	ARTICLE	IF	CITATIONS
19	Methanogenesis, fires and the regulation of atmospheric oxygen. <i>BioSystems</i> , 1978, 10, 293-298.	2.0	170
20	The role of Southern Ocean mixing and upwelling in glacial-interglacial atmospheric CO ₂ change. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2006, 58, 73-87.	1.6	167
21	Bio-optical feedbacks among phytoplankton, upper ocean physics and sea-ice in a global model. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	162
22	Impact of Bovine Oocyte Maturation Media on Oocyte Transcript Levels, Blastocyst Development, Cell Number, and Apoptosis ¹ . <i>Biology of Reproduction</i> , 2000, 62, 355-364.	2.7	156
23	Ocean Iron Fertilization—Moving Forward in a Sea of Uncertainty. <i>Science</i> , 2008, 319, 162-162.	12.6	156
24	Immunofluorescence assessment of the timing of appearance and cellular distribution of Na/K-ATPase during mouse embryogenesis. <i>Developmental Biology</i> , 1988, 126, 80-90.	2.0	145
25	The cell biology of blastocyst development. <i>Molecular Reproduction and Development</i> , 1992, 33, 492-504.	2.0	145
26	Aquaporin proteins in murine trophoctoderm mediate transepithelial water movements during cavitation. <i>Developmental Biology</i> , 2003, 256, 342-354.	2.0	133
27	The benefit of minocycline on negative symptoms of schizophrenia in patients with recent-onset psychosis (BeneMin): a randomised, double-blind, placebo-controlled trial. <i>Lancet Psychiatry</i> , the, 2018, 5, 885-894.	7.4	133
28	Revised estimates of ocean-atmosphere CO ₂ flux are consistent with ocean carbon inventory. <i>Nature Communications</i> , 2020, 11, 4422.	12.8	129
29	Volcanic iron, CO ₂ , ocean productivity and climate. <i>Nature</i> , 1997, 385, 587-588.	27.8	110
30	Stability of Pluto's atmosphere. <i>Icarus</i> , 1982, 51, 665-667.	2.5	107
31	A Growth Factor Phenotype Map for Ovine Preimplantation Development ¹ . <i>Biology of Reproduction</i> , 1994, 50, 725-733.	2.7	107
32	Modeling the geochemical cycle of iron in the oceans and its impact on atmospheric CO ₂ concentrations. <i>Global Biogeochemical Cycles</i> , 1999, 13, 727-736.	4.9	107
33	Southern Ocean buoyancy forcing of ocean ventilation and glacial atmospheric CO ₂ . <i>Nature Geoscience</i> , 2015, 8, 861-864.	12.9	99
34	Preimplantation embryo programming: transcription, epigenetics, and culture environment. <i>Reproduction</i> , 2008, 135, 141-150.	2.6	97
35	A decrease in the sink for atmospheric CO ₂ in the North Atlantic. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	92
36	Habitable Zone Lifetimes of Exoplanets around Main Sequence Stars. <i>Astrobiology</i> , 2013, 13, 833-849.	3.0	92

#	ARTICLE	IF	CITATIONS
37	Implications of coral reef buildup for the controls on atmospheric CO ₂ since the Last Glacial Maximum. <i>Paleoceanography</i> , 2003, 18, n/a-n/a.	3.0	90
38	p38 MAPK signaling during murine preimplantation development. <i>Developmental Biology</i> , 2004, 268, 76-88.	2.0	90
39	Na/K-ATPase α 1 Subunit Expression Is Required for Blastocyst Formation and Normal Assembly of Trophectoderm Tight Junction-associated Proteins. <i>Journal of Biological Chemistry</i> , 2007, 282, 12127-12134.	3.4	90
40	Variation of pCO ₂ along a North Atlantic shipping route (U.K. to the Caribbean): A year of automated observations. <i>Marine Chemistry</i> , 1998, 60, 147-164.	2.3	89
41	Long-lived vortices as a mode of deep ventilation in the Greenland Sea. <i>Nature</i> , 2002, 416, 525-527.	27.8	89
42	Preimplantation Development of in Vitro-Matured and in Vitro-Fertilized Ovine Zygotes: Comparison between Coculture on Oviduct Epithelial Cell Monolayers and Culture under Low Oxygen Atmosphere. <i>Biology of Reproduction</i> , 1994, 50, 715-724.	2.7	88
43	Regulation of blastocyst formation. <i>Frontiers in Bioscience - Landmark</i> , 2001, 6, d708-730.	3.0	86
44	Stress-inducible phosphoprotein 1 has unique cochaperone activity during development and regulates cellular response to ischemia via the prion protein. <i>FASEB Journal</i> , 2013, 27, 3594-3607.	0.5	86
45	The runaway greenhouse: implications for future climate change, geoengineering and planetary atmospheres. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 4197-4216.	3.4	84
46	A null mutation for Tissue Inhibitor of Metalloproteinases-3 (Timp-3) impairs murine bronchiole branching morphogenesis. <i>Developmental Biology</i> , 2003, 261, 313-323.	2.0	83
47	Timing of Neoproterozoic glaciations linked to transport-limited global weathering. <i>Nature Geoscience</i> , 2011, 4, 861-864.	12.9	83
48	Short-circuiting of the overturning circulation in the Antarctic Circumpolar Current. <i>Nature</i> , 2007, 447, 194-197.	27.8	81
49	Cell polarity and development of the first epithelium. <i>BioEssays</i> , 1990, 12, 67-73.	2.5	79
50	Differentiation of an epithelium: Factors affecting the polarized distribution of Na ⁺ ,K ⁺ -ATPase in mouse trophectoderm. <i>Developmental Biology</i> , 1990, 141, 104-114.	2.0	75
51	Analysis of variation in relative mRNA abundance for specific gene transcripts in single bovine oocytes and early embryos. <i>Molecular Reproduction and Development</i> , 1998, 49, 119-130.	2.0	71
52	Cyclooxygenase-2 and Prostaglandin E2 (PGE2) Receptor Messenger RNAs Are Affected by Bovine Oocyte Maturation Time and Cumulus-Oocyte Complex Quality, and PGE2 Induces Moderate Expansion of the Bovine Cumulus In Vitro. <i>Biology of Reproduction</i> , 2001, 65, 135-140.	2.7	71
53	Effects of maturation and co-culture treatments on the developmental capacity of early bovine embryos. <i>Molecular Reproduction and Development</i> , 1991, 30, 330-338.	2.0	70
54	Bovine Oviductal and Embryonic Insulin-Like Growth Factor Binding Proteins: Possible Regulators of α Embryotrophic Insulin-Like Growth Factor Circuits. <i>Biology of Reproduction</i> , 1997, 56, 1415-1423.	2.7	70

#	ARTICLE	IF	CITATIONS
55	Direct Estimate of Lateral Eddy Diffusivity Upstream of Drake Passage. <i>Journal of Physical Oceanography</i> , 2014, 44, 2593-2616.	1.7	68
56	mRNAs encoding aquaporins are present during murine preimplantation development. <i>Molecular Reproduction and Development</i> , 2000, 57, 323-330.	2.0	66
57	Proterozoic oxygen rise linked to shifting balance between seafloor and terrestrial weathering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 9073-9078.	7.1	66
58	Expression of Na, K-ATPase α and β subunit genes during preimplantation development of the mouse. <i>Genesis</i> , 1990, 11, 41-48.	2.1	63
59	Na ⁺ /K ⁺ -ATPase regulates tight junction formation and function during mouse preimplantation development. <i>Developmental Biology</i> , 2006, 289, 406-419.	2.0	63
60	The flow of Antarctic bottom water to the southwest Indian Ocean estimated using CFCs. <i>Journal of Geophysical Research</i> , 1998, 103, 27637-27653.	3.3	62
61	Rapid cross-density ocean mixing at mid-depths in the Drake Passage measured by tracer release. <i>Nature</i> , 2013, 501, 408-411.	27.8	61
62	Implantation Failure in Female Kiss1 ^{+/+} Mice Is Independent of Their Hypogonadic State and Can Be Partially Rescued by Leukemia Inhibitory Factor. <i>Endocrinology</i> , 2014, 155, 3065-3078.	2.8	61
63	Marine biological controls on climate via the carbon and sulphur geochemical cycles. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 1998, 353, 41-51.	4.0	60
64	Transient Expression of a Translation Initiation Factor Is Conservatively Associated with Embryonic Gene Activation in Murine and Bovine Embryos. <i>Biology of Reproduction</i> , 1998, 59, 969-977.	2.7	59
65	Southern Ocean iron enrichment promotes inorganic carbon drawdown. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2001, 48, 2483-2507.	1.4	59
66	RGS14 Is a Mitotic Spindle Protein Essential from the First Division of the Mammalian Zygote. <i>Developmental Cell</i> , 2004, 7, 763-769.	7.0	59
67	Genomic RNA profiling and the programme controlling preimplantation mammalian development. <i>Molecular Human Reproduction</i> , 2008, 14, 691-701.	2.8	59
68	Mitogen-activated protein kinase (MAPK) pathways mediate embryonic responses to culture medium osmolarity by regulating Aquaporin 3 and 9 expression and localization, as well as embryonic apoptosis. <i>Human Reproduction</i> , 2009, 24, 1373-1386.	0.9	59
69	Reprogramming of Fibroblast Nuclei after Transfer into Bovine Oocytes. <i>Cloning</i> , 1999, 1, 63-69.	2.1	57
70	Differential Involvement of Na ⁺ ,K ⁺ -ATPase Isozymes in Preimplantation Development of the Mouse. <i>Developmental Biology</i> , 2000, 222, 486-498.	2.0	57
71	Genetic reprogramming of lactate dehydrogenase, citrate synthase, and phosphofructokinase mRNA in bovine nuclear transfer embryos produced using bovine fibroblast cell nuclei. <i>Molecular Reproduction and Development</i> , 2000, 56, 458-464.	2.0	56
72	A summer-time sink for atmospheric carbon dioxide in the Southern Ocean between 88°W and 80°E. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 1995, 42, 1081-1091.	1.4	55

#	ARTICLE	IF	CITATIONS
73	Ouabain sensitivity and expression of Na/K-ATPase $\hat{1}\pm$ - and $\hat{2}$ -subunit isoform genes during bovine early development. <i>Molecular Reproduction and Development</i> , 1997, 46, 114-126.	2.0	54
74	A comparison of multiple regression and neural network techniques for mapping in situ pCO ₂ data. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2005, 57, 375-384.	1.6	54
75	Meridional Density Gradients Do Not Control the Atlantic Overturning Circulation. <i>Journal of Physical Oceanography</i> , 2010, 40, 368-380.	1.7	54
76	A deliberate tracer experiment in Santa Monica Basin. <i>Nature</i> , 1986, 323, 322-324.	27.8	52
77	Expression of IGF ligand and receptor genes during preimplantation mammalian development. <i>Molecular Reproduction and Development</i> , 1993, 35, 414-420.	2.0	52
78	The island mass effect and biological carbon uptake for the subantarctic Crozet Archipelago. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2007, 54, 2174-2190.	1.4	50
79	Design of a small-scale in situ iron fertilization experiment. <i>Limnology and Oceanography</i> , 1991, 36, 1960-1965.	3.1	49
80	Thermal skin effect and the air-sea flux of carbon dioxide: A seasonal high-resolution estimate. <i>Global Biogeochemical Cycles</i> , 1995, 9, 253-262.	4.9	49
81	Na/K-ATPase-Mediated ⁸⁶ Rb+Uptake and Asymmetrical Trophectoderm Localization of $\hat{1}\pm$ 1 and $\hat{1}\pm$ 3 Na/K-ATPase Isoforms during Bovine Preattachment Development. <i>Developmental Biology</i> , 1998, 197, 77-92.	2.0	47
82	Potential and limitations of bovine-specific arrays for the analysis of mRNA levels in early development: preliminary analysis using a bovine embryonic array. <i>Reproduction, Fertility and Development</i> , 2005, 17, 47.	0.4	46
83	p38 mitogen-activated protein kinase (MAPK) first regulates filamentous actin at the 8-16-cell stage during preimplantation development. <i>Biology of the Cell</i> , 2005, 97, 629-640.	2.0	46
84	Mouse preimplantation embryo responses to culture medium osmolarity include increased expression of CCM2 and p38 MAPK activation. <i>BMC Developmental Biology</i> , 2007, 7, 2.	2.1	46
85	Assessment by differential display-RT-PCR of mRNA transcript transitions and γ -amanitin sensitivity during bovine preattachment development. <i>Molecular Reproduction and Development</i> , 2000, 55, 152-163.	2.0	44
86	The Integrated Carbon Observation System in Europe. <i>Bulletin of the American Meteorological Society</i> , 2022, 103, E855-E872.	3.3	44
87	Ocean deoxygenation, the global phosphorus cycle and the possibility of human-caused large-scale ocean anoxia. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20160318.	3.4	43
88	Implications of an Anthropic Model of Evolution for Emergence of Complex Life and Intelligence. <i>Astrobiology</i> , 2008, 8, 175-185.	3.0	42
89	p38 MAPK Regulates Cavitation and Tight Junction Function in the Mouse Blastocyst. <i>PLoS ONE</i> , 2013, 8, e59528.	2.5	40
90	A piece in the CO ₂ jigsaw. <i>Nature</i> , 2001, 410, 765-766.	27.8	38

#	ARTICLE	IF	CITATIONS
91	Effect of serum and cumulus cell expansion on marker gene transcripts in bovine cumulus-oocyte complexes during maturation in vitro. <i>Fertility and Sterility</i> , 2005, 83, 1077-1085.	1.0	38
92	Iron and mixing affect biological carbon uptake in SOIREE and EisenEx, two Southern Ocean iron fertilisation experiments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 1001-1019.	1.4	38
93	Turbulent diapycnal mixing in the Nordic seas. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	37
94	Comment on "Modern-age buildup of CO ₂ and its effects on seawater acidity and salinity" by Hugo A. Loaiciga. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	36
95	Ocean ventilation and deoxygenation in a warming world: introduction and overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2017, 375, 20170240.	3.4	34
96	Recent history of atmospheric trace gas concentrations deduced from measurements in the deep sea: Application to sulphur hexafluoride and carbon tetrachloride. <i>Atmospheric Environment</i> , 1985, 19, 1477-1484.	1.0	33
97	Mitogen-activated protein kinase (MAPK) blockade of bovine preimplantation embryogenesis requires inhibition of both p38 and extracellular signal-regulated kinase (ERK) pathways. <i>Reproduction</i> , 2005, 130, 41-51.	2.6	33
98	Ocean biogeochemical response to phytoplankton light feedback in a global model. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
99	Perfluorodecalin and sulphur hexafluoride as purposeful marine tracers: some deployment and analysis techniques. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1987, 34, 19-31.	1.5	32
100	Transports of Nordic Seas water masses and excess SF6 through Fram Strait to the Arctic Ocean. <i>Progress in Oceanography</i> , 2008, 78, 1-11.	3.2	32
101	How to make a blastocyst. <i>Biochemistry and Cell Biology</i> , 1992, 70, 849-855.	2.0	31
102	Coevolution of the Earth's environment and life: Goldilocks, Gaia and the anthropic principle. <i>Geological Society Special Publication</i> , 1999, 150, 75-88.	1.3	31
103	Dynamic seasonal cycling of inorganic carbon downstream of South Georgia, Southern Ocean. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2012, 59-60, 25-35.	1.4	31
104	Oceans on the edge of anoxia. <i>Science</i> , 2016, 354, 1529-1530.	12.6	31
105	Embryo collection induces transient activation of XBP1 arm of the ER stress response while embryo vitrification does not. <i>Molecular Human Reproduction</i> , 2012, 18, 229-242.	2.8	30
106	U2 small nuclear RNA localization and expression during bovine preimplantation development. <i>Molecular Reproduction and Development</i> , 1992, 31, 231-240.	2.0	29
107	Determination of Persian Gulf Water Transport and oxygen utilisation rates using SF6 as a novel transient tracer. <i>Geophysical Research Letters</i> , 2001, 28, 815-818.	4.0	29
108	Temperatures in a runaway greenhouse on the evolving Venus: implications for water loss. <i>Earth and Planetary Science Letters</i> , 1984, 68, 1-6.	4.4	28

#	ARTICLE	IF	CITATIONS
109	Deconstructing depression and negative symptoms of schizophrenia; differential and longitudinal immune correlates, and response to minocycline treatment. <i>Brain, Behavior, and Immunity</i> , 2021, 91, 498-504.	4.1	28
110	Composition of particles in the global ocean. <i>Deep-sea Research Part A, Oceanographic Research Papers</i> , 1985, 32, 1023-1039.	1.5	27
111	An operational monitoring system to provide indicators of CO ₂ -related variables in the ocean. <i>ICES Journal of Marine Science</i> , 2008, 65, 1498-1503.	2.5	27
112	Anthropogenic carbon accumulation in the subtropical North Atlantic. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	26
113	Targeting gene expression in the preimplantation mouse embryo using morpholino antisense oligonucleotides. <i>Molecular Reproduction and Development</i> , 2002, 63, 413-421.	2.0	25
114	Ovarian Stanniocalcin Is Structurally Unique in Mammals and Its Production and Release Are Regulated through the Luteinizing Hormone Receptor. <i>Endocrinology</i> , 2002, 143, 3925-3934.	2.8	24
115	Carbon dynamics of the Weddell Gyre, Southern Ocean. <i>Global Biogeochemical Cycles</i> , 2015, 29, 288-306.	4.9	24
116	The CO ₂ system in a Redfield context during an iron enrichment experiment in the Southern Ocean. <i>Marine Chemistry</i> , 2005, 95, 89-105.	2.3	23
117	Roles of Na,K-ATPase in Early Development and Trophectoderm Differentiation. <i>Seminars in Nephrology</i> , 2005, 25, 352-355.	1.6	21
118	Assessing the seasonality of the oceanic sink for CO ₂ in the northern hemisphere. <i>Global Biogeochemical Cycles</i> , 1999, 13, 273-286.	4.9	20
119	Rac-1 and IQGAP are potential regulators of E-cadherin-catenin interactions during murine preimplantation development. <i>Mechanisms of Development</i> , 2002, 119, S21-S26.	1.7	20
120	Individual-based modelling of adaptation in marine microbial populations using genetically defined physiological parameters. <i>Ecological Modelling</i> , 2011, 222, 3823-3837.	2.5	20
121	Long-Term Planetary Habitability and the Carbonate-Silicate Cycle. <i>Astrobiology</i> , 2018, 18, 469-480.	3.0	20
122	Air-sea gas exchange in Antarctic waters. <i>Antarctic Science</i> , 2004, 16, 517-529.	0.9	18
123	Intermediate water from the Greenland Sea in the Faroe Bank Channel: spreading of released sulphur hexafluoride. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2005, 52, 279-294.	1.4	18
124	Rapid changes in surface water carbonate chemistry during Antarctic sea ice melt. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2010, 62, 621-635.	1.6	18
125	Symbiotic physiology promotes homeostasis in Daisyworld. <i>Journal of Theoretical Biology</i> , 2011, 274, 170-182.	1.7	18
126	The rise of angiosperms strengthened fire feedbacks and improved the regulation of atmospheric oxygen. <i>Nature Communications</i> , 2021, 12, 503.	12.8	18

#	ARTICLE	IF	CITATIONS
127	Certainty and Uncertainty in Climate Change Predictions: What Use are Climate Models?. <i>Environmental and Resource Economics</i> , 2008, 39, 37-44.	3.2	17
128	Treatment with AICAR inhibits blastocyst development, trophectoderm differentiation and tight junction formation and function in mice. <i>Molecular Human Reproduction</i> , 2017, 23, 771-785.	2.8	17
129	The CIRCuITS study (Implementation of cognitive remediation in early intervention services): protocol for a randomised controlled trial. <i>Trials</i> , 2018, 19, 183.	1.6	16
130	Trends in anthropogenic CO ₂ in water masses of the Subtropical North Atlantic Ocean. <i>Progress in Oceanography</i> , 2015, 131, 21-32.	3.2	15
131	Circulation-driven variability of Atlantic anthropogenic carbon transports and uptake. <i>Nature Geoscience</i> , 2021, 14, 571-577.	12.9	15
132	PP2C \hat{C} (Ppm1d, WIP1), an endogenous inhibitor of p38 MAPK, is regulated along WithTrp53 andCdkn2a following p38 MAPK inhibition during mouse preimplantation development. <i>Molecular Reproduction and Development</i> , 2007, 74, 821-834.	2.0	14
133	Oocyte peptides as paracrine tools for ovarian stimulation and oocyte maturation. <i>Molecular Human Reproduction</i> , 2009, 15, 789-794.	2.8	14
134	Ouabain Stimulates a Na ⁺ /K ⁺ -ATPase-Mediated SFK-Activated Signalling Pathway That Regulates Tight Junction Function in the Mouse Blastocyst. <i>PLoS ONE</i> , 2011, 6, e23704.	2.5	14
135	P66Shc, a key regulator of metabolism and mitochondrial ROS production, is dysregulated by mouse embryo culture. <i>Molecular Human Reproduction</i> , 2016, 22, 634-647.	2.8	14
136	Reconciling Observation and Model Trends in North Atlantic Surface CO ₂ . <i>Global Biogeochemical Cycles</i> , 2019, 33, 1204-1222.	4.9	14
137	Oleic Acid Counters Impaired Blastocyst Development Induced by Palmitic Acid During Mouse Preimplantation Development: Understanding Obesity-Related Declines in Fertility. <i>Reproductive Sciences</i> , 2020, 27, 2038-2051.	2.5	14
138	Constraining the Oceanic Uptake and Fluxes of Greenhouse Gases by Building an Ocean Network of Certified Stations: The Ocean Component of the Integrated Carbon Observation System, ICOS-Oceans. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	13
139	SNAI1 and SNAI2 Are Asymmetrically Expressed at the 2-Cell Stage and Become Segregated to the TE in the Mouse Blastocyst. <i>PLoS ONE</i> , 2009, 4, e8530.	2.5	12
140	Estimating a Submesoscale Diffusivity Using a Roughness Measure Applied to a Tracer Release Experiment in the Southern Ocean. <i>Journal of Physical Oceanography</i> , 2015, 45, 1610-1631.	1.7	11
141	Meridional Overturning Circulation in a Multibasin Model. Part I: Dependence on Southern Ocean Buoyancy Forcing. <i>Journal of Physical Oceanography</i> , 2020, 50, 1159-1178.	1.7	10
142	Winter Air-Sea CO ₂ Fluxes Constructed From Summer Observations of the Polar Southern Ocean Suggest Weak Outgassing. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016600.	2.6	10
143	Can limited ocean mixing buffer rapid climate change?. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2005, 57, 676-690.	1.7	10
144	A systematic review of the effects of psychiatric medications on social cognition. <i>BMC Psychiatry</i> , 2021, 21, 597.	2.6	10

#	ARTICLE	IF	CITATIONS
145	Effect of estrogen-treated porcine ampulla oviductal epithelial cells on early embryonic development in vitro and characterization of their protein synthetic activity. <i>Animal Reproduction Science</i> , 1996, 45, 217-229.	1.5	9
146	A measurement system for vertical seawater profiles close to the air-sea interface. <i>Ocean Science</i> , 2017, 13, 649-660.	3.4	9
147	Tracking the spread of a passive tracer through Southern Ocean water masses. <i>Ocean Science</i> , 2020, 16, 323-336.	3.4	9
148	Enhancement of electron-capture detection of chlorocarbons by iodination. <i>Analytical Chemistry</i> , 1981, 53, 132-134.	6.5	8
149	New observations on the prehistory and palaeoclimate of the Late Pleistocene in southern Africa. <i>World Archaeology</i> , 1982, 13, 372-381.	1.1	8
150	Monitoring and interpreting the ocean uptake of atmospheric CO ₂ . <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2011, 369, 1997-2008.	3.4	8
151	Culture medium, gas atmosphere and MAPK inhibition affect regulation of RNA-binding protein targets during mouse preimplantation development. <i>Reproduction</i> , 2011, 142, 689-698.	2.6	8
152	Diapycnal diffusivities from a tracer release experiment in the deep sea, integrated over 13 years. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	8
153	Characterization of a bovine cDNA encoding citrate synthase, and presence of citrate synthase mRNA during bovine pre-attachment development. <i>Molecular Reproduction and Development</i> , 2000, 55, 14-19.	2.0	7
154	Matching carbon pools and fluxes for the Southern Ocean Iron Release Experiment (SOIREE). <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2006, 53, 1941-1960.	1.4	7
155	The Southern Ocean, carbon and climate. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2014, 372, 20130057.	3.4	7
156	Comparative Prevalence of Eating Disorders in Obsessive-Compulsive Disorder and Other Anxiety Disorders. <i>Psychiatry Journal</i> , 2015, 2015, 1-6.	1.5	7
157	Effects of American Ginseng on Preimplantation Development and Pregnancy in Mice. <i>The American Journal of Chinese Medicine</i> , 2016, 44, 981-995.	3.8	7
158	Simulated diabetic ketoacidosis therapy in vitro elicits brain cell swelling via sodium-hydrogen exchange and anion transport. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2015, 309, E370-E379.	3.5	5
159	Linking a research register to clinical records in older adults' mental health services: a mixed-methods study. <i>Alzheimer's Research and Therapy</i> , 2015, 7, 15.	6.2	5
160	Tidal mixing of estuarine and coastal waters in the western English Channel is a control on spatial and temporal variability in seawater CO ₂ . <i>Biogeosciences</i> , 2022, 19, 1657-1674.	3.3	5
161	Endogenous Folate Accumulation in Oocytes and Preimplantation Embryos and Its Epigenetic Implications. <i>Biology of Reproduction</i> , 2013, 89, 62.	2.7	4
162	The use of Deliberately Injected Tracers for the Study of Diapycnal Mixing in the Ocean. <i>Elsevier Oceanography Series</i> , 1988, 46, 11-20.	0.1	3

#	ARTICLE	IF	CITATIONS
163	Feedbacks on climate in the Earth system: introduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140428.	3.4	3
164	Knockdown of p66Shc Alters Lineage-Associated Transcription Factor Expression in Mouse Blastocysts. Stem Cells and Development, 2018, 27, 1479-1493.	2.1	3
165	Cognitive function in early-phase schizophrenia-spectrum disorder: IQ subtypes, brain volume and immune markers. Psychological Medicine, 2022, , 1-10.	4.5	3
166	CD-1 mouse fertility rapidly declines and is accompanied with early pregnancy loss under conventional housing conditions. Theriogenology, 2018, 108, 245-254.	2.1	2
167	Diapycnal Mixing in the Southern Ocean Diagnosed Using the DIMES Tracer and Realistic Velocity Fields. Journal of Geophysical Research: Oceans, 2018, 123, 2615-2634.	2.6	2
168	More haste less speed: A meta-analysis of thinking latencies during planning in people with psychosis. Psychiatry Research, 2017, 258, 576-582.	3.3	2
169	The gas transfer velocity - wind speed relationship at Siblyback Lake.. A reply to comments by Kwan and Taylor. Tellus, Series B: Chemical and Physical Meteorology, 1993, 45, 299-300.	1.6	1
170	Outer Space and Oocyte Developmental Competence. Biology of Reproduction, 2012, 86, 75.	2.7	1
171	Variability of North Atlantic CO ₂ fluxes for the 2000-2017 period estimated from atmospheric inverse analyses. Biogeosciences, 2021, 18, 4549-4570.	3.3	1
172	Coming to grips with the variability of surface water chemistry. Applied Geochemistry, 1988, 3, 105.	3.0	0
173	Prospects for improved pregnancy outcomes by assisted reproductive technologies. Seminars in Fetal and Neonatal Medicine, 1999, 4, 115-123.	2.7	0
174	Analysis of the embryonic transcriptome. , 0, , 269-277.		0
175	T86. COGNITIVE SUBTYPES IN FIRST-EPISODE PSYCHOSIS: AN EMPIRICAL LONGITUDINAL STUDY OF RELATIONSHIP TO COGNITIVE, SYMPTOM AND FUNCTIONAL OUTCOMES. Schizophrenia Bulletin, 2018, 44, S148-S148.	4.3	0