Kenji A Kawamura

List of Publications by Year
in descending order

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75 papers	8,630 citations	94433 37 h-index	88630 70 g-index
108 all docs	108 docs citations	108 times ranked	8742 citing authors

#	Article	IF	Citations
1	High-resolution carbon dioxide concentration record 650,000â€“800,000â€‰years before present. Nature, 2008, 453, 379-382.	27.8	1,837
2	A redetermination of the isotopic abundances of atmospheric Ar. Geochimica Et Cosmochimica Acta, 2006, 70, 4507-4512.	3.9	957
3	Eemian interglacial reconstructed from a Greenland folded ice core. Nature, 2013, 493, 489-494.	27.8	565
4	Northern Hemisphere forcing of climatic cycles in Antarctica over the past 360,000â€‰years. Nature, 2007, 448, 912-916.	27.8	442
5	Atmospheric Methane and Nitrous Oxide of the Late Pleistocene from Antarctic Ice Cores. Science, 2005, 310, 1317-1321.	12.6	424
6	The EDC3 chronology for the EPICA Dome C ice core. Climate of the Past, 2007, 3, 485-497.	3.4	396
7	Interglacials of the last 800,000â€‰years. Reviews of Geophysics, 2016, 54, 162-219.	23.0	359
8	Insolation-driven 100,000-year glacial cycles and hysteresis of ice-sheet volume. Nature, 2013, 500, 190-193.	27.8	344
9	Evidence for substantial accumulation rate variability in Antarctica during the Holocene, through synchronization of CO 2 in the Taylor Dome, Dome C and DML ice cores. Earth and Planetary Science Letters, 2004, 224, 45-54.	4.4	331
10	N2O and CH4variations during the last glacial epoch: Insight into global processes. Global Biogeochemical Cycles, 2004, 18, n/a-n/a.	4.9	171
11	1-D-ice flow modelling at EPICA Dome C and Dome Fuji, East Antarctica. Climate of the Past, 2007, 3, 243-259.	3.4	135
12	Gas transport in firn: multiple-tracer characterisation and model intercomparison for NEEM, Northern Greenland. Atmospheric Chemistry and Physics, 2012, 12, 4259-4277.	4.9	130
13	Insights from Antarctica on volcanic forcing during the Common Era. Nature Climate Change, 2014, 4, 693-697.	18.8	129
14	Where to find 1.5 million yr old ice for the IPICS "Oldest-Ice" ice core. Climate of the Past, 2013, 9, 2489-2505.	3.4	123
15	Mean global ocean temperatures during the last glacial transition. Nature, 2018, 553, 39-44.	27.8	122
16	High variability of Greenland surface temperature over the past 4000 years estimated from trapped air in an ice core. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	114
17	Variations in global methane sources and sinks during 1910â€“2010. Atmospheric Chemistry and Physics, 2015, 15, 2595-2612.	4.9	108
18	Abrupt ice-age shifts in southern westerly winds and Antarctic climate forced from the north. Nature, 2018, 563, 681-685.	27.8	108

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19	Firn-air Î´15N in modern polar sites and glacialâ€“interglacial ice: a model-data mismatch during glacial periods in Antarctica?. Quaternary Science Reviews, 2006, 25, 49-62.	3.0	99
20	10Be evidence for delayed acquisition of remanent magnetization in marine sediments: Implication for a new age for the Matuyamaâ€“Brunhes boundary. Earth and Planetary Science Letters, 2010, 296, 443-450.	4.4	90
21	Age of Matuyama-Brunhes boundary constrained by U-Pb zircon dating of a widespread tephra. Geology, 2015, 43, 491-494.	4.4	86
22	State dependence of climatic instability over the past 720,000 years from Antarctic ice cores and climate modeling. Science Advances, 2017, 3, e1600446.	10.3	86
23	Deep air convection in the firn at a zero-accumulation site, central Antarctica. Earth and Planetary Science Letters, 2010, 293, 359-367.	4.4	82
24	Supporting evidence from the EPICA Dronning Maud Land ice core for atmospheric CO2 changes during the past millennium. Tellus, Series B: Chemical and Physical Meteorology, 2005, 57, 51-57.	1.6	71
25	Abrupt change of Antarctic moisture origin at the end of Termination II. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 12091-12094.	7.1	71
26	Direct linking of Greenland and Antarctic ice cores at the Toba eruption (74 ka BP). Climate of the Past, 2013, 9, 749-766.	3.4	70
27	Effects of molecular diffusion on trapped gas composition in polar ice cores. Earth and Planetary Science Letters, 2005, 229, 183-192.	4.4	64
28	Convective mixing of air in firn at four polar sites. Earth and Planetary Science Letters, 2006, 244, 672-682.	4.4	61
29	Antarctic surface temperature and elevation during the Last Glacial Maximum. Science, 2021, 372, 1097-1101.	12.6	61
30	Temporal variations of the atmospheric nitrous oxide concentration and itsÎ´15N andÎ´18O for the latter half of the 20th century reconstructed from firn air analyses. Journal of Geophysical Research, 2007, 112, .	3.3	56
31	Persistent multi-decadal Greenland temperature fluctuation through the last millennium. Climatic Change, 2010, 100, 733-756.	3.6	56
32	Asynchrony between Antarctic temperature and CO2 associated with obliquity over the past 720,000 years. Nature Communications, 2018, 9, 961.	12.8	51
33	Supporting evidence from the EPICA Dronning Maud Land ice core for atmospheric CO₂ changes during the past millennium. Tellus, Series B: Chemical and Physical Meteorology, 2022, 57, 51.	1.6	50
34	Early Last Interglacial ocean warming drove substantial ice mass loss from Antarctica. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 3996-4006.	7.1	50
35	A new multi-gas constrained model of trace gas non-homogeneous transport in firn: evaluation and behaviour at eleven polar sites. Atmospheric Chemistry and Physics, 2012, 12, 11465-11483.	4.9	46
36	Argon and nitrogen isotopes of trapped air in the GISP2 ice core during the Holocene epoch (0â€“11,500) Tj ETQq0 0 0 rgBT /Overlock 1 72, 4675-4686.	3.9	45

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37	Vertical profile of the carbon isotopic ratio of stratospheric methane over Japan. Geophysical Research Letters, 1997, 24, 2989-2992.	4.0	43
38	The recent warming trend in North Greenland. Geophysical Research Letters, 2017, 44, 6235-6243.	4.0	40
39	On the origin of multidecadal to centennial Greenland temperature anomalies over the past 800 yr. Climate of the Past, 2013, 9, 583-596.	3.4	37
40	Paleoclimatic and paleoceanographic records through Marine Isotope Stage 19â€¯at the Chiba composite section, central Japan: A key reference for the Earlyâ€“Middle Pleistocene Subseries boundary. Quaternary Science Reviews, 2018, 191, 406-430.	3.0	37
41	Carbon dioxide variations in the stratosphere over Japan, Scandinavia and Antarctica. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 178-186.	1.6	36
42	Atmospheric CO2 variations over the last three glacial-interglacial climatic cycles deduced from the Dome Fuji deep ice core, Antarctica using a wet extraction technique. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 126-137.	1.6	32
43	The seaâ€level conundrum: case studies from palaeoâ€archives. Journal of Quaternary Science, 2010, 25, 19-25.	2.1	32
44	The penultimate deglaciation: protocol for Paleoclimate Modelling Intercomparison Project (PMIP) phase 4 transient numerical simulations between 140 and 127â€‰ka, version 1.0. Geoscientific Model Development, 2019, 12, 3649-3685.	3.6	26
45	Kinetic fractionation of gases by deep air convection in polar firn. Atmospheric Chemistry and Physics, 2013, 13, 11141-11155.	4.9	23
46	New methods for measuring atmospheric heavy noble gas isotope and elemental ratios in ice core samples. Rapid Communications in Mass Spectrometry, 2018, 32, 801-814.	1.5	21
47	Variations of stratospheric trace gases measured using a balloon-borne cryogenic sampler. Advances in Space Research, 2002, 30, 1349-1357.	2.6	19
48	Expression of neuronal src mRNA as a favorable marker and inverse correlation to N-myc gene amplification in human neuroblastomas. International Journal of Cancer, 1994, 58, 793-798.	5.1	15
49	Neuronalsrc andtrk A protooncogene expression in neuroblastomas and patient prognosis. , 1998, 79, 226-231.		15
50	Differentiating bubble-free layers from melt layers in ice cores using noble gases. Journal of Glaciology, 2015, 61, 585-594.	2.2	15
51	The spatial and seasonal distributions of air-transport origins to the Antarctic based on 5-day backward trajectory analysis. Polar Science, 2013, 7, 205-213.	1.2	14
52	Spatial variation of isotopic compositions of snowpack nitrate related to post-depositional processes in eastern Dronning Maud Land, East Antarctica. Geochemical Journal, 2018, 52, e7-e14.	1.0	14
53	New technique for high-precision, simultaneous measurements of CH₄, N₂O and CO₂ concentrations; isotopic and elemental ratios of N₂, O₂ and Ar; and total air content in ice cores by wet extraction. Atmospheric Measurement Techniques, 2020, 13, 6703-6731.	3.1	12
54	Atmospheric CO₂ variations over the last three glacial–interglacial climatic cycles deduced from the Dome Fuji deep ice core, Antarctica using a wet extraction technique. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 126.	1.6	10

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55	Carbon dioxide variations in the stratosphere over Japan, Scandinavia and Antarctica. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 178.	1.6	9
56	A Prototype Ultra-Wideband FMCW Radar for Snow and Soil-Moisture Measurements. , 2019, , .		9
57	Surface Mass Balance Controlled by Local Surface Slope in Inland Antarctica: Implications for Iceâ€Sheet Mass Balance and Oldest Ice Delineation in Dome Fuji. Geophysical Research Letters, 2021, 48, .	4.0	9
58	Fractionation of O₂âˆ•N₂ and Arâˆ•N₂ in the Antarctic ice sheet during bubble formation and bubbleâ€“clathrate hydrate transition from precise gas measurements of the Dome Fuji ice core. Cryosphere, 2021, 15, 5529-5555.	3.9	9
59	Climate dependent contrast in surface mass balance in East Antarctica over the past 216 ka. Journal of Glaciology, 2016, 62, 1037-1048.	2.2	8
60	A Mobile, Multichannel, UWB Radar for Potential Ice Core Drill Site Identification in East Antarctica: Development and First Results. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 4836-4847.	4.9	8
61	On the occurrence of annual layers in Dome Fuji ice core early Holocene ice. Climate of the Past, 2015, 11, 1127-1137.	3.4	7
62	Overestimate of committed warming. Nature, 2017, 547, E16-E17.	27.8	7
63	Reconstruction of past variations of delta13C in atmospheric CO2 from its vertical distribution observed in the firn at Dome Fuji, Antarctica. Tellus, Series B: Chemical and Physical Meteorology, 2003, 55, 159-169.	1.6	6
64	Diffusive Separation of the Lower Atmosphere. Science, 2006, 311, 1429-1429.	12.6	6
65	Compositions of Dust and Sea Salts in the Dome C and Dome Fuji Ice Cores From Last Glacial Maximum to Early Holocene Based on Iceâ€Sublimation and Singleâ€Particle Measurements. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD032208.	3.3	6
66	Glacial mode shift of the Atlantic meridional overturning circulation by warming over the Southern Ocean. Communications Earth & Environment, 2021, 2, .	6.8	6
67	Reconstruction of past variations of ¹³C in atmospheric CO₂ from its vertical distribution observed in the firn at Dome Fuji, Antarctica. Tellus, Series B: Chemical and Physical Meteorology, 2022, 55, 159.	1.6	4
68	A Compact Multi-Channel Radar for >1Ma Old Ice Core Site Identification in East Antarctica. , 2019, , .		4
69	A sequential Bayesian approach for the estimation of the ageâ€“depth relationship of the Dome Fuji ice core. Nonlinear Processes in Geophysics, 2016, 23, 31-44.	1.3	4
70	Discovery of argon in air-hydrate crystals in a deep ice core using scanning electron microscopy and energy-dispersive X-ray spectroscopy. Journal of Glaciology, 2022, 68, 547-556.	2.2	4
71	Corrigendum to ``Gas transport in firn: multiple-tracer characterisation and model intercomparison for NEEM, Northern Greenland'' published in Atmos. Chem. Phys., 12, 4259â€“4277, 2012. Atmospheric Chemistry and Physics, 2014, 14, 3571-3572.	4.9	2
72	Towards reconstructing the Arctic atmospheric methane history over the 20th century: measurement and modelling results for the North Greenland Ice Core Project firn. Atmospheric Chemistry and Physics, 2022, 22, 6899-6917.	4.9	2

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73	Chronostratigraphy of the Larsen blue-ice area in northern Victoria Land, East Antarctica, and its implications for paleoclimate. Cryosphere, 2022, 16, 2301-2324.	3.9	1
74	Quaternary earth system dynamics explored with ice core records. The Quaternary Research, 2009, 48, 109-129.	0.1	0
75	Dust correlation and oxygen isotope stratigraphy in the Southern Ocean over the last 450 kyrs: An Indian sector perspective. Quaternary Science Reviews, 2022, 286, 107508.	3.0	0