Roberto Udisti

List of Publications by Year
in descending order

87 papers	6,573 citations	101543 36 h-index	66911 78 g-index
88 all docs	88 docs citations	88 times ranked	6489 citing authors

#	Article	IF	Citations
1	Eight glacial cycles from an Antarctic ice core. Nature, 2004, 429, 623-628.	27.8	2,015
2	One-to-one coupling of glacial climate variability in Greenland and Antarctica. Nature, 2006, 444, 195-198.	27.8	1,111
3	Reconstruction of millennial changes in dust emission, transport and regional sea ice coverage using the deep EPICA ice cores from the Atlantic and Indian Ocean sector of Antarctica. Earth and Planetary Science Letters, 2007, 260, 340-354.	4.4	193
4	Changes in environment over the last 800,000 years from chemical analysis of the EPICA Dome C ice core. Quaternary Science Reviews, 2010, 29, 285-295.	3.0	183
5	Seasonal variations in chemical composition and in vitro biological effects of fine PM from Milan. Chemosphere, 2010, 78, 1368-1377.	8.2	169
6	Evidence for heavy fuel oil combustion aerosols from chemical analyses at the island of Lampedusa: a possible large role of ships emissions in the Mediterranean. Atmospheric Chemistry and Physics, 2012, 12, 3479-3492.	4.9	135
7	New estimations of precipitation and surface sublimation in East Antarctica from snow accumulation measurements. Climate Dynamics, 2004, 23, 803-813.	3.8	117
8	A tentative chronology for the EPICA Dome Concordia Ice Core. Geophysical Research Letters, 2001, 28, 4243-4246.	4.0	113
9	Spatial and temporal variability of snow accumulation in East Antarctica from traverse data. Journal of Glaciology, 2005, 51, 113-124.	2.2	113
10	Saharan dust aerosol over the central Mediterranean Sea: PM₁₀ chemical composition and concentration versus optical columnar measurements. Atmospheric Chemistry and Physics, 2014, 14, 2039-2054.	4.9	85
11	Seasonality of sulfur species (dimethyl sulfide, sulfate, and methanesulfonate) in Antarctica: Inland versus coastal regions. Journal of Geophysical Research, 2008, 113, .	3.3	81
12	Proxies and Measurement Techniques for Mineral Dust in Antarctic Ice Cores. Environmental Science & Technology, 2008, 42, 5675-5681.	10.0	81
13	Synchronisation of the EDML and EDC ice cores for the last 52 kyr by volcanic signature matching. Climate of the Past, 2007, 3, 367-374.	3.4	73
14	Yearâ€round record of sizeâ€segregated aerosol composition in central Antarctica (Concordia station): Implications for the degree of fractionation of seaâ€salt particles. Journal of Geophysical Research, 2008, 113, .	3.3	68
15	Sulfate source apportionment in the Ny-Ã…lesund (Svalbard Islands) Arctic aerosol. Rendiconti Lincei, 2016, 27, 85-94.	2.2	66
16	Observational evidence for the formation of DMS-derived aerosols during Arctic phytoplankton blooms. Atmospheric Chemistry and Physics, 2017, 17, 9665-9675.	4.9	65
17	An improved flow analysisâ€“ion chromatography method for determination of cationic and anionic species at trace levels in Antarctic ice cores. Analytica Chimica Acta, 2007, 603, 190-198.	5.4	62
18	Three-year monitoring of stable isotopes of precipitation at Concordia Station, East Antarctica. Cryosphere, 2016, 10, 2415-2428.	3.9	62

#	Article	IF	Citations
19	Vertical profiles of aerosol and black carbon in the Arctic: a seasonal phenomenology along 2Âyears (2011â€“2012) of field campaigns. Atmospheric Chemistry and Physics, 2016, 16, 12601-12629.	4.9	62
20	Sea-spray deposition in Antarctic coastal and plateau areas from ITASE traverses. Annals of Glaciology, 2005, 41, 32-40.	1.4	61
21	Atmosphereâ€“snow interaction by a comparison between aerosol and uppermost snow-layers composition at Dome C, East Antarctica. Annals of Glaciology, 2004, 39, 53-61.	1.4	60
22	The combined activation of KCa3.1 and inhibition of Kv11.1/hERG1 currents contribute to overcome Cisplatin resistance in colorectal cancer cells. British Journal of Cancer, 2018, 118, 200-212.	6.4	58
23	Limited dechlorination of sea-salt aerosols during the last glacial period: Evidence from the European Project for Ice Coring in Antarctica (EPICA) Dome C ice core. Journal of Geophysical Research, 2003, 108, .	3.3	57
24	Comparison of inductively coupled plasma spectrometry techniques for the direct determination of rare earth elements in digests from geological samples. Analytica Chimica Acta, 2010, 678, 18-25.	5.4	56
25	Volcanic eruption frequency over the last 45 ky as recorded in Epica-Dome C ice core (East Antarctica) and its relationship with climatic changes. Global and Planetary Change, 2004, 42, 195-205.	3.5	54
26	Biomass burning contributions estimated by synergistic coupling of daily and hourly aerosol composition records. Science of the Total Environment, 2015, 511, 11-20.	8.0	53
27	Volcanic synchronisation of the EPICA-DC and TALDICE ice cores for the last 42 kyr BP. Climate of the Past, 2012, 8, 509-517.	3.4	51
28	Ammonium and non-sea salt sulfate in the EPICA ice cores as indicator of biological activity in the Southern Ocean. Quaternary Science Reviews, 2010, 29, 313-323.	3.0	50
29	Comparison of analytical methods used for measuring major ions in the EPICA Dome C (Antarctica) ice core. Annals of Glaciology, 2002, 35, 299-305.	1.4	48
30	Nitrate in Polar Ice: A New Tracer of Solar Variability. Solar Physics, 2012, 280, 237-254.	2.5	47
31	Chemical and isotopic snow variability along the 1998 ITASE traverse from Terra Nova Bay to Dome C, East Antarctica. Annals of Glaciology, 2002, 35, 187-194.	1.4	44
32	PM10 oxidative potential at a Central Mediterranean Site: Association with chemical composition and meteorological parameters. Atmospheric Environment, 2018, 188, 97-111.	4.1	44
33	Snow accumulation rates in northern Victoria Land, Antarctica, by firn-core analysis. Journal of Glaciology, 2000, 46, 541-552.	2.2	42
34	A Novel Manganese Complex Effective as Superoxide Anion Scavenger and Therapeutic Agent against Cell and Tissue Oxidative Injury. Journal of Medicinal Chemistry, 2009, 52, 7273-7283.	6.4	41
35	Chemical and isotopic snow variability in East Antarctica along the 2001/02 ITASE traverse. Annals of Glaciology, 2004, 39, 473-482.	1.4	40
36	Analysis of snow from Antarctica: a critical approach to ion-chromatographic methods. Fresenius' Journal of Analytical Chemistry, 1994, 349, 289-293.	1.5	39

#	Article	IF	Citations
37	Ice core evidence for secular variability and 200-year dipolar oscillations in atmospheric circulation over East Antarctica during the Holocene. Climate Dynamics, 2005, 24, 641-654.	3.8	39
38	Bioavailability of trace elements in surface sediments from Kongsfjorden, Svalbard. Marine Pollution Bulletin, 2013, 77, 367-374.	5.0	38
39	Study of present-day sources and transport processes affecting oxidised sulphur compounds in atmospheric aerosols at Dome C (Antarctica) from year-round sampling campaigns. Atmospheric Environment, 2012, 52, 98-108.	4.1	37
40	Methanesulphonic acid (MSA) stratigraphy from a Talos Dome ice core as a tool in depicting sea ice changes and southern atmospheric circulation over the previous 140 years. Atmospheric Environment, 2009, 43, 1051-1058.	4.1	35
41	High-resolution fast ion chromatography (FIC) measurements of chloride, nitrate and sulphate along the EPICA Dome C ice core. Annals of Glaciology, 2002, 35, 291-298.	1.4	33
42	Morphochemical characteristics and mixing state of long range transported wildfire particles at Ny-Ã…lesund (Svalbard Islands). Atmospheric Environment, 2017, 156, 135-145.	4.1	32
43	Conversion of rare earth elements to molecular oxide ions in a dynamic reaction cell and consequences on their determination by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2010, 25, 1588.	3.0	31
44	Spatial and temporal distribution of environmental markers from Coastal to Plateau areas in Antarctica by firn core chemical analysis. International Journal of Environmental Analytical Chemistry, 2004, 84, 457-470.	3.3	30
45	Sulfate Spikes in the Deep Layers of EPICA-Dome C Ice Core: Evidence of Glaciological Artifacts. Environmental Science & Technology, 2009, 43, 8737-8743.	10.0	30
46	Source assessment of atmospheric lead measured at Ny-Ã…lesund, Svalbard. Atmospheric Environment, 2015, 113, 20-26.	4.1	29
47	Study of Dome C site (East Antartica) variability by comparing chemical stratigraphies. Microchemical Journal, 2009, 92, 7-14.	4.5	27
48	Local vs. long-range sources of aerosol particles upon Ny-Ã…lesund (Svalbard Islands): mineral chemistry and geochemical records. Rendiconti Lincei, 2016, 27, 115-127.	2.2	27
49	Sea-spray and marine biogenic seasonal contribution to snow composition at Terra Nova Bay, Antarctica. Annals of Glaciology, 1999, 29, 77-83.	1.4	25
50	Chemical composition of PM1 and PM2.5 at a suburban site in southern Italy. International Journal of Environmental Analytical Chemistry, 2014, 94, 127-150.	3.3	25
51	Spatial distribution of biogenic sulphur compounds (MSA, nssSO42â€“) in the northern Victoria Landâ€“Dome Câ€“Wilkes Land area, East Antarctica. Annals of Glaciology, 2005, 41, 23-31.	1.4	22
52	Long-range transport of atmospheric lead reaching Ny-Ã…lesund: Inter-annual and seasonal variations of potential source areas. Atmospheric Environment, 2016, 139, 11-19.	4.1	22
53	Analysis of Organic Compounds in Antarctic Snow and Their Origin. International Journal of Environmental Analytical Chemistry, 1998, 71, 331-351.	3.3	21
54	Thirty years of snow deposition at Talos Dome (Northern Victoria Land, East Antarctica): Chemical profiles and climatic implications. Microchemical Journal, 2009, 92, 15-20.	4.5	21

#	Article	IF	Citations
55	Insights on nitrate sources at Dome C (East Antarctic Plateau) from multi-year aerosol and snow records. Tellus, Series B: Chemical and Physical Meteorology, 2022, 66, 22550.	1.6	19
56	Marine Contribution to the Chemical Composition of Coastal and Inland Antarctic Snow. International Journal of Environmental Analytical Chemistry, 2001, 79, 283-299.	3.3	18
57	Humic Marine Matter and Insoluble Materials in Antarctic Snow. International Journal of Environmental Analytical Chemistry, 2001, 79, 331-348.	3.3	18
58	Year-round record of dissolved and particulate metals in surface snow at Dome Concordia (East) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6	8.2	18
59	Recovering Paleo-Records from Antarctic Ice-Cores by Coupling a Continuous Melting Device and Fast Ion Chromatography. Analytical Chemistry, 2015, 87, 11441-11447.	6.5	18
60	Spatial distribution and seasonal pattern of biogenic sulphur compounds in snow from northern Victoria Land, Antarctica. Annals of Glaciology, 1998, 27, 535-542.	1.4	16
61	Relaxation phenomena and structural modifications of substituted polythiophenes during the p-doping processes. An electrochemical and morphological study. Electrochimica Acta, 2006, 51, 2698-2705.	5.2	15
62	Analysis of multi-year near-surface ozone observations at the WMO/GAW â€œConcordiaâ€•station (75Â°06â€²S,) Tj ETQq0 0 0 rgBT /O	4.1	15
63	Determination of gallium traces by differential pulse anodic stripping voltammetry. Fresenius Zeitschrift FÃ¼r Analytische Chemie, 1988, 331, 35-38.	0.8	14
64	Sensitivity of chemical species to climatic changes in the last 45 kyr as revealed by high-resolution Dome C (East Antarctica) ice-core analysis. Annals of Glaciology, 2004, 39, 457-466.	1.4	14
65	Chemical characterization of the last 250 years of snow deposition at Talos Dome (East Antarctica). International Journal of Environmental Analytical Chemistry, 2004, 84, 523-536.	3.3	14
66	Aluminium and iron record for the last 28 kyr derived from the Antarctic EDC96 ice core using new CFA methods. Annals of Glaciology, 2004, 39, 300-306.	1.4	14
67	Atmospheric decadal variability from high-resolution Dome C ice core records of aerosol constituents beyond the Last Interglacial. Quaternary Science Reviews, 2010, 29, 324-337.	3.0	14
68	Multi-seasonal ultrafine aerosol particle number concentration measurements at the Gruvebadet observatory, Ny-Ã…lesund, Svalbard Islands. Rendiconti Lincei, 2016, 27, 59-71.	2.2	14
69	Elemental and lead isotopic composition of atmospheric particulate measured in the Arctic region (Ny-Ã…lesund, Svalbard Islands). Rendiconti Lincei, 2016, 27, 73-84.	2.2	14
70	Spatial and temporal variability of snow chemical composition and accumulation rate at Talos Dome site (East Antarctica). Science of the Total Environment, 2016, 550, 418-430.	8.0	14
71	Determination of Rare Earth Elements in multi-year high-resolution Arctic aerosol record by double focusing Inductively Coupled Plasma Mass Spectrometry with desolvation nebulizer inlet system. Science of the Total Environment, 2018, 613-614, 1284-1294.	8.0	13
72	70 years of northern Victoria Land (Antarctica) accumulation rate. Annals of Glaciology, 1998, 27, 215-219.	1.4	11

#	Article	IF	Citations
73	Elemental leaching from quercus ilex L. in response to simulated acidic fog. Water, Air, and Soil Pollution, 1989, 47, 35-46.	2.4	10
74	Ultra-sensitive Flow Injection Analysis (FIA) determination of calcium in ice cores at ppt level. Analytica Chimica Acta, 2007, 594, 219-225.	5.4	10
75	A Novel Fast Ion Chromatographic Method for the Analysis of Fluoride in Antarctic Snow and Ice. Environmental Science & Technology, 2014, 48, 1795-1802.	10.0	10
76	Intermetallic compounds and the determination of copper and zinc by anodic stripping voltammetry. Analytica Chimica Acta, 1987, 202, 151-157.	5.4	8
77	Chemical characterisation of a volcanic event (about AD 1500) at Styx Glacier plateau, northern Victoria Land, Antarctica. Annals of Glaciology, 1999, 29, 113-120.	1.4	7
78	Enhanced intra-cutaneous delivery of a Mn-containing antioxidant drug by high-frequency ultrasounds. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 197-203.	2.8	7
79	Sensitivity Enhancement of the Formaldehyde Fluorimetric Determination by the use of a Surfactant. International Journal of Environmental Analytical Chemistry, 2002, 82, 97-112.	3.3	5
80	One-million year Rare Earth Element stratigraphies along an Antarctic marine sediment core. Microchemical Journal, 2015, 122, 164-171.	4.5	5
81	A Simple Model for K and Ca Enrichment Interpretation in Antarctic Snow. International Journal of Environmental Analytical Chemistry, 1998, 71, 265-287.	3.3	4
82	Arctic Aerosols. Springer Polar Sciences, 2020, , 209-329.	0.1	4
83	Sequential Sampling of Rain: Construction and Operation of an Automatic Wet-Only Apparatus. International Journal of Environmental Analytical Chemistry, 1998, 69, 53-66.	3.3	3
84	Preliminary study of HCHO spatial and temporal distribution from Coastal to Plateau areas in Antarctica. International Journal of Environmental Analytical Chemistry, 2004, 84, 537-549.	3.3	2
85	Erratum to â€œReconstruction of millennial changes in dust emission, transport and regional sea ice coverage using the deep EPICA ice cores from the Atlantic and Indian Ocean sector of Antarcticaâ€• [Earth Planet. Sci. Lett. 260 (2007) 340â€“354]. Earth and Planetary Science Letters, 2007, 262, 635-636.	4.4	1
86	Identification of Component Sources in Antarctic Snow by Factor Analysis. International Journal of Environmental Analytical Chemistry, 1998, 71, 297-309.	3.3	0
87	Sea-Salt Aerosol Forecasts Over the Mediterranean Sea Evaluated by Daily Measurements in Lampedusa from 2006 to 2010. NATO Science for Peace and Security Series C: Environmental Security, 2014, , 321-325.	0.2	0