

# Andrea Borsato

## List of Publications by Year in descending order

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63  
papers

4,302  
citations

117625

34  
h-index

118850

62  
g-index

76  
all docs

76  
docs citations

76  
times ranked

2893  
citing authors

#	ARTICLE	IF	CITATIONS
1	Controls on trace element (Sr&Mg) compositions of carbonate cave waters: implications for speleothem climatic records. <i>Chemical Geology</i> , 2000, 166, 255-269.	3.3	470
2	Calcite Fabrics, Growth Mechanisms, and Environments of Formation in Speleothems from the Italian Alps and Southwestern Ireland. <i>Journal of Sedimentary Research</i> , 2000, 70, 1183-1196.	1.6	304
3	Trace element distribution in annual stalagmite laminae mapped by micrometer-resolution X-ray fluorescence: Implications for incorporation of environmentally significant species. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1494-1512.	3.9	205
4	Holocene climate variability in Europe: Evidence from $\delta^{18}O$ , textural and extension-rate variations in three speleothems. <i>Quaternary Science Reviews</i> , 1999, 18, 1021-1038.	3.0	200
5	Seasonal variations in Sr, Mg and P in modern speleothems (Grotta di Ernesto, Italy). <i>Chemical Geology</i> , 2001, 175, 429-448.	3.3	186
6	Aragonite-Calcite Relationships in Speleothems (Grotte De Clamouse, France): Environment, Fabrics, and Carbonate Geochemistry. <i>Journal of Sedimentary Research</i> , 2002, 72, 687-699.	1.6	182
7	Carbon mass-balance modelling and carbon isotope exchange processes in dynamic caves. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 380-400.	3.9	173
8	Late Holocene annual growth in three Alpine stalagmites records the influence of solar activity and the North Atlantic Oscillation on winter climate. <i>Earth and Planetary Science Letters</i> , 2003, 216, 411-424.	4.4	168
9	Annual to sub-annual resolution of multiple trace-element trends in speleothems. <i>Journal of the Geological Society</i> , 2001, 158, 831-841.	2.1	148
10	From soil to cave: Transport of trace metals by natural organic matter in karst dripwaters. <i>Chemical Geology</i> , 2012, 304-305, 68-82.	3.3	122
11	Calcite Moonmilk: Crystal Morphology and Environment of Formation in Caves in the Italian Alps. <i>Journal of Sedimentary Research</i> , 2000, 70, 1171-1182.	1.6	115
12	Holocene Climate Variability in Sicily from a Discontinuous Stalagmite Record and the Mesolithic to Neolithic Transition. <i>Quaternary Research</i> , 2006, 66, 388-400.	1.7	112
13	Annual trace element cycles in calcite-aragonite speleothems: evidence of drought in the western Mediterranean 1200-1100 yr BP. <i>Journal of Quaternary Science</i> , 2005, 20, 423-433.	2.1	110
14	Variations in atmospheric sulphate recorded in stalagmites by synchrotron micro-XRF and XANES analyses. <i>Earth and Planetary Science Letters</i> , 2005, 235, 729-740.	4.4	108
15	Climate variability in the SE Alps of Italy over the past 17 000 years reconstructed from a stalagmite record. <i>Boreas</i> , 2005, 34, 445-455.	2.4	107
16	Holocene climate variability in north-eastern Italy: potential influence of the NAO and solar activity recorded by speleothem data. <i>Climate of the Past</i> , 2012, 8, 1367-1383.	3.4	93
17	Chapter 6 Karst. <i>Developments in Sedimentology</i> , 2010, , 269-318.	0.5	77
18	Chronology building using objective identification of annual signals in trace element profiles of stalagmites. <i>Quaternary Geochronology</i> , 2009, 4, 11-21.	1.4	75

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19	Water residence time as a driving force of zooplankton structure and succession. <i>Aquatic Sciences</i> , 2007, 69, 575-583.	1.5	66
20	â€œCrypticâ€•diagenesis and its implications for speleothem geochronologies. <i>Quaternary Science Reviews</i> , 2016, 148, 17-28.	3.0	64
21	Epikarst hydrology and implications for stalagmite capture of climate changes at Grotta di Ernesto (NE Italy): results from long-term monitoring. <i>Hydrological Processes</i> , 2010, 24, 3101-3114.	2.6	63
22	Stable isotopes in caves over altitudinal gradients: fractionation behaviour and inferences for speleothem sensitivity to climate change. <i>Climate of the Past</i> , 2013, 9, 99-118.	3.4	62
23	High-resolution sulphur isotope analysis of speleothem carbonate by secondary ionisation mass spectrometry. <i>Chemical Geology</i> , 2010, 271, 101-107.	3.3	58
24	Hydroclimate of the Last Glacial Maximum and deglaciation in southern Australia's arid margin interpreted from speleothem records ( $23\text{â€}^{15}\text{â€}^{\text{ka}}$ ). <i>Climate of the Past</i> , 2017, 13, 667-687.	3.4	56
25	A re-evaluation of the palaeoclimatic significance of phosphorus variability in speleothems revealed by high-resolution synchrotron micro XRF mapping. <i>Climate of the Past</i> , 2012, 8, 2039-2051.	3.4	54
26	Stalagmite carbon isotopes and dead carbon proportion (DCP) in a near-closed-system situation: An interplay between sulphuric and carbonic acid dissolution. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 210, 208-227.	3.9	52
27	Sulfur Fixation in Wood Mapped by Synchrotron X-ray Studies: Implications for Environmental Archives. <i>Environmental Science &amp; Technology</i> , 2009, 43, 1310-1315.	10.0	51
28	Speleothems as sensitive recorders of volcanic eruptions â€“ the Bronze Age Minoan eruption recorded in a stalagmite from Turkey. <i>Earth and Planetary Science Letters</i> , 2014, 392, 58-66.	4.4	50
29	High spatial resolution investigation of nucleation, growth and early diagenesis in speleothems as exemplar for sedimentary carbonates. <i>Earth-Science Reviews</i> , 2018, 178, 68-91.	9.1	44
30	Biogeochemical cycling of sulphur in karst and transfer into speleothem archives at Grotta di Ernesto, Italy. <i>Biogeochemistry</i> , 2013, 114, 255-267.	3.5	43
31	Investigating the hydrological significance of stalagmite geochemistry (Mg, Sr) using Sr isotope and particulate element records across the Late Glacial-to-Holocene transition. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 199, 247-263.	3.9	42
32	Petrology and geochemistry of annually laminated stalagmites from an Alpine cave (Obir, Austria): seasonal cave physiology. <i>Geological Society Special Publication</i> , 2010, 336, 295-321.	1.3	41
33	Regional climate variability and ecosystem responses to the last deglaciation in the northern hemisphere from stable isotope data and calcite fabrics in two northern Adriatic stalagmites. <i>Quaternary Science Reviews</i> , 2013, 72, 146-158.	3.0	40
34	Synchrotron radiation applications to past volcanism archived in speleothems: An overview. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 96-100.	2.1	38
35	Reconstructing hemispheric-scale climates from multiple stalagmite records. <i>International Journal of Climatology</i> , 2006, 26, 1417-1424.	3.5	37
36	Runoff generation in karst catchments: multifractal analysis. <i>Journal of Hydrology</i> , 2004, 294, 176-195.	5.4	31

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37	Temperature and altitudinal influence on karst dripwater chemistry: Implications for regional-scale palaeoclimate reconstructions from speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 177, 275-297.	3.9	31
38	Hydroclimatic variability in Southeast Asia over the past two millennia. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115737.	4.4	31
39	Simulated oxygen isotopes in cave drip water and speleothem calcite in European caves. <i>Climate of the Past</i> , 2012, 8, 1781-1799.	3.4	29
40	Carbon dioxide concentration in temperate climate caves and parent soils over an altitudinal gradient and its influence on speleothem growth and fabrics. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1158-1170.	2.5	27
41	Evidence of thermophilisation and elevation-dependent warming during the Last Interglacial in the Italian Alps. <i>Scientific Reports</i> , 2018, 8, 2680.	3.3	25
42	Ubiquitous karst hydrological control on speleothem oxygen isotope variability in a global study. <i>Communications Earth &amp; Environment</i> , 2022, 3, .	6.8	24
43	The Neanderthal in the karst: First dating, morphometric, and paleogenetic data on the fossil skeleton from Altamura (Italy). <i>Journal of Human Evolution</i> , 2015, 82, 88-94.	2.6	23
44	The Properties of Annually Laminated Stalagmites – A Global Synthesis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000722.	23.0	23
45	Sulphate partitioning into calcite: Experimental verification of pH control and application to seasonality in speleothems. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 226, 69-83.	3.9	22
46	The influence of Antarctic subglacial volcanism on the global iron cycle during the Last Glacial Maximum. <i>Nature Communications</i> , 2017, 8, 15425.	12.8	21
47	Sulphate concentration in cave dripwater and speleothems: long-term trends and overview of its significance as proxy for environmental processes and climate changes. <i>Quaternary Science Reviews</i> , 2015, 127, 48-60.	3.0	19
48	Genesis and microstratigraphy of calcite coralloids analysed by high resolution imaging and petrography. <i>Sedimentary Geology</i> , 2017, 359, 16-28.	2.1	17
49	Accurate dating of stalagmites from low seasonal contrast tropical Pacific climate using Sr 2D maps, fabrics and annual hydrological cycles. <i>Scientific Reports</i> , 2021, 11, 2178.	3.3	16
50	Rotifer – crustacean interactions in a pseudokarstic lake: influence of hydrology. <i>Aquatic Ecology</i> , 2010, 44, 121-130.	1.5	15
51	The contribution of lake benthic algae to the sediment record in a carbonate mountain lake influenced by marked natural water-level fluctuations. <i>Freshwater Science</i> , 2014, 33, 499-512.	1.8	14
52	High-resolution synchrotron X-ray fluorescence investigation of calcite coralloid speleothems: Elemental incorporation and their potential as environmental archives. <i>Sedimentology</i> , 2019, 66, 2661-2685.	3.1	13
53	Climate variability on the Adriatic seaboard during the last glacial inception and MIS 5c from Frasassi Cave stalagmite record. <i>Quaternary Science Reviews</i> , 2018, 201, 349-361.	3.0	12
54	CLIMATE FORCINGS AND THEIR INFLUENCE ON ALPINE HISTORY AS RECONSTRUCTED THROUGH THE APPLICATION OF SYNCHROTRON-BASED X-RAY MICROFLUORESCENCE ON LAYERED STALAGMITES*. <i>Archaeometry</i> , 2005, 47, 209-219.	1.3	10

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55	NMR spectroscopic study of organic phosphate esters coprecipitated with calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 46-62.	3.9	10
56	Exploring the dating of "dirty" speleothems and cave sinters using radiocarbon dating of preserved organic matter. <i>Quaternary Geochronology</i> , 2017, 39, 92-98.	1.4	10
57	Last interglacial hydroclimate in the Italian Prealps reconstructed from speleothem multi-proxy records (Bigonda Cave, NE Italy). <i>Quaternary Science Reviews</i> , 2021, 272, 107243.	3.0	7
58	Past fires and post-fire impacts reconstructed from a southwest Australian stalagmite. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 325, 258-277.	3.9	7
59	A guide to synchrotron hard X-ray fluorescence mapping of annually laminated stalagmites: Sample preparation, analysis and evaluation. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2021, 185, 106308.	2.9	6
60	Controls on rainfall variability in the tropical South Pacific for the last 350 years reconstructed from oxygen isotopes in stalagmites from the Cook Islands. <i>Quaternary Science Reviews</i> , 2022, 289, 107633.	3.0	5
61	The importance of hydraulic conditions in determining ecological equilibrium in Lake Tovel, Italy. <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2006, 29, 1327-1330.	0.1	1
62	The influence of biotic and abiotic factors on the seasonality of meso-zooplankton in Lake Tovel (Trentino, Italy). <i>Verhandlungen Der Internationalen Vereinigung Fur Theoretische Und Angewandte Limnologie International Association of Theoretical and Applied Limnology</i> , 2005, 29, 865-868.	0.1	0
63	Über das Unbemerkbare in der Wahrnehmung. Eine phänomenologische Auseinandersetzung mit dem Standpunkt der analytischen Philosophie zum Thema „Aufmerksamkeit“. <i>Husserl Studies</i> , 2013, 29, 113-141.	0.6	0