

Andrea Borsato

List of Publications by Year in descending order

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Version: 2024-02-01

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 | Ubiquitous karst hydrological control on speleothem oxygen isotope variability in a global study. <i>Communications Earth & Environment</i> , 2022, 3, . | 6.8 | 24 |
| 2 | 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 |
| 3 | 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 |
| 4 | 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 |
| 5 | The Properties of Annually Laminated Stalagmitesâ€A Global Synthesis. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000722. | 23.0 | 23 |
| 6 | 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 |
| 7 | 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 |
| 8 | Hydroclimatic variability in Southeast Asia over the past two millennia. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115737. | 4.4 | 31 |
| 9 | Highâ€resolution synchrotron Xâ€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 |
| 10 | 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 |
| 11 | 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 |
| 12 | 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 |
| 13 | 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 |
| 14 | Exploring the dating of â€dirtyâ€ speleothems and cave sinters using radiocarbon dating of preserved organic matter. <i>Quaternary Geochronology</i> , 2017, 39, 92-98. | 1.4 | 10 |
| 15 | 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 |
| 16 | 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 |
| 17 | Genesis and microstratigraphy of calcite coralloids analysed by high resolution imaging and petrography. <i>Sedimentary Geology</i> , 2017, 359, 16-28. | 2.1 | 17 |
| 18 | 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 |

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|----|--|-----|-----------|
| 19 | Hydroclimate of the Last Glacial Maximum and deglaciation in southern Australia's arid margin interpreted from speleothem records (23â€°15â€°ra). <i>Climate of the Past</i> , 2017, 13, 667-687. | 3.4 | 56 |
| 20 | NMR spectroscopic study of organic phosphate esters coprecipitated with calcite. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 183, 46-62. | 3.9 | 10 |
| 21 | â€œCrypticâ€•diagenesis and its implications for speleothem geochronologies. <i>Quaternary Science Reviews</i> , 2016, 148, 17-28. | 3.0 | 64 |
| 22 | 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 |
| 23 | 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 |
| 24 | 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 |
| 25 | 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 |
| 26 | 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 |
| 27 | 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 |
| 28 | 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 |
| 29 | Ãœber das Unbemerkbare in der Wahrnehmung. Eine phÃ•nomenologische Auseinandersetzung mit dem Standpunkt der analytischen Philosophie zum Thema „Aufmerksamkeitâ€•. <i>Husserl Studies</i> , 2013, 29, 113-141. | 0.6 | 0 |
| 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 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | 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 |
| 36 | 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 |

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|----|---|------|-----------|
| 37 | Rotiferâ€œcrustacean interactions in a pseudokarstic lake: influence of hydrology. <i>Aquatic Ecology</i> , 2010, 44, 121-130. | 1.5 | 15 |
| 38 | Epikarst hydrology and implications for stalagmite capture of climate changes at Grotta di Ernesto (NE Italy): results from longâ€œterm monitoring. <i>Hydrological Processes</i> , 2010, 24, 3101-3114. | 2.6 | 63 |
| 39 | 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 |
| 40 | Chapter 6 Karst. <i>Developments in Sedimentology</i> , 2010, , 269-318. | 0.5 | 77 |
| 41 | High-resolution sulphur isotope analysis of speleothem carbonate by secondary ionisation mass spectrometry. <i>Chemical Geology</i> , 2010, 271, 101-107. | 3.3 | 58 |
| 42 | Sulfur Fixation in Wood Mapped by Synchrotron X-ray Studies: Implications for Environmental Archives. <i>Environmental Science & Technology</i> , 2009, 43, 1310-1315. | 10.0 | 51 |
| 43 | 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 |
| 44 | 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 |
| 45 | 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 |
| 46 | Water residence time as a driving force of zooplankton structure and succession. <i>Aquatic Sciences</i> , 2007, 69, 575-583. | 1.5 | 66 |
| 47 | 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 |
| 48 | 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 |
| 49 | Reconstructing hemispheric-scale climates from multiple stalagmite records. <i>International Journal of Climatology</i> , 2006, 26, 1417-1424. | 3.5 | 37 |
| 50 | 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 |
| 51 | 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 |
| 52 | 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 |
| 53 | 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 |
| 54 | 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 |

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|----|--|-----|-----------|
| 55 | Runoff generation in karst catchments: multifractal analysis. <i>Journal of Hydrology</i> , 2004, 294, 176-195. | 5.4 | 31 |
| 56 | 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 |
| 57 | 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 |
| 58 | 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 |
| 59 | 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 |
| 60 | 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 |
| 61 | 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 |
| 62 | 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 |
| 63 | 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 |