Wolfgang MÃ¼ller

List of Publications by Year
in descending order

67 papers	4,086 citations	101543 36 h-index	114465 63 g-index
68 all docs	68 docs citations	68 times ranked	4693 citing authors

#	Article	IF	Citations
1	Spatially-Resolved Ca Isotopic and Trace Element Variations in Human Deciduous Teeth Record Diet and Physiological Change. Environmental Archaeology, 2022, 27, 474-483.	1.2	14
2	Tracing the mobility of a Late Epigravettian (~â€‰13Âka) male infant from Grotte di Pradis (Northeastern) Tj ETQq0 0 0 rgBT /Overlock	3.3	4
3	Accurate correction for the matrix interference on laser ablation MC-ICPMS boron isotope measurements in CaCO₃ and silicate matrices. Journal of Analytical Atomic Spectrometry, 2021, 36, 1607-1617.	3.0	7
4	The trace-element composition of a Polish stalagmite: Implications for the use of speleothems as a record of explosive volcanism. Chemical Geology, 2021, 570, 120157.	3.3	3
5	Salinity Effect on Trace Element Incorporation in Cultured Shells of the Large Benthic Foraminifer Operculinaammonoides. Paleoceanography and Paleoclimatology, 2021, 36, e2021PA004218.	2.9	6
6	Tracing human mobility in central Europe during the Upper Paleolithic using sub-seasonally resolved Sr isotope records in ornaments. Scientific Reports, 2020, 10, 10386.	3.3	10
7	Early life of Neanderthals. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 28719-28726.	7.1	34
8	Intrashell Variability of Trace Elements in Benthic Foraminifera Grown Under High CO2 Levels. Frontiers in Earth Science, 2019, 7, .	1.8	6
9	Enamel mineralization and compositional time-resolution in human teeth evaluated via histologically-defined LA-ICPMS profiles. Geochimica Et Cosmochimica Acta, 2019, 255, 105-126.	3.9	46
10	North Iberian temperature and rainfall seasonality over the Younger Dryas and Holocene. Quaternary Science Reviews, 2019, 226, 105998.	3.0	34
11	Assessing foraminifera biomineralisation models through trace element data of cultures under variable seawater chemistry. Geochimica Et Cosmochimica Acta, 2018, 236, 198-217.	3.9	64
12	Eocene greenhouse climate revealed by coupled clumped isotope-Mg/Ca thermometry. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 1174-1179.	7.1	146
13	Environmental and physiological controls on daily trace element incorporation in Tridacna crocea from combined laboratory culturing and ultra-high resolution LA-ICP-MS analysis. Palaeogeography, Palaeoclimatology, Palaeoecology, 2018, 496, 32-47.	2.3	37
14	Automated Extraction of a Fiveâ€Year <scp>LA</scp>â€<scp>ICP</scp>â€<scp>MS</scp> Trace Element Data Set of Ten Common Glass and Carbonate Reference Materials: Longâ€Term Data Quality, Optimisation and Laser Cell Homogeneity. Geostandards and Geoanalytical Research, 2018, 42, 159-188.	3.1	35
15	Calibration of Na partitioning in the calcitic foraminifer Operculina ammonoides under variable Ca concentration: Toward reconstructing past seawater composition. Earth and Planetary Science Letters, 2018, 497, 80-91.	4.4	42
16	Daily growth and tidal rhythms in Miocene and modern giant clams revealed via ultra-high resolution LA-ICPMS analysis â€" A novel methodological approach towards improved sclerochemistry. Palaeogeography, Palaeoclimatology, Palaeoecology, 2017, 465, 362-375.	2.3	33
17	The nature of annual lamination in carbonate flowstones from non-karstic fractures, Vinschgau (northern Italy). Chemical Geology, 2017, 457, 1-14.	3.3	5
18	The Evolution of Deep Ocean Chemistry and Respired Carbon in the Eastern Equatorial Pacific Over the Last Deglaciation. Paleoceanography, 2017, 32, 1371-1385.	3.0	16

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19	Calibrated cryo-cell UV-LA-ICPMS elemental concentrations from the NGRIP ice core reveal abrupt, sub-annual variability in dust across the GI-21.2 interstadial period. Cryosphere, 2017, 11, 1297-1309.	3.9	14
20	Revisiting carbonate chemistry controls on planktic foraminifera Mg / â€¯Ca: implications for sea surface temperature and hydrology shifts over the Paleoceneâ€“Eocene Thermal Maximum and Eoceneâ€“Oligocene transition. Climate of the Past, 2016, 12, 819-835.	3.4	70
21	The Role of LAâ€“ICPâ€“MS in Palaeoclimate Research. Elements, 2016, 12, 329-334.	0.5	14
22	Laserâ€cut Rbâ€“Sr microsampling dating of deformational events in the Mont Blancâ€Aiguilles Rouges region (European Alps). Terra Nova, 2016, 28, 35-42.	2.1	14
23	Planktic foraminifera shell chemistry response to seawater chemistry: Plioceneâ€“Pleistocene seawater Mg/Ca, temperature and sea level change. Earth and Planetary Science Letters, 2016, 438, 139-148.	4.4	82
24	Ca isotopic analysis of laser-cut microsamples of (bio)apatite without chemical purification. Chemical Geology, 2016, 422, 1-12.	3.3	20
25	Palaeotectonic setting of the south-eastern KÃ©dougou-KÃ©niÃ©ba Inlier, West Africa: New insights from igneous trace element geochemistry and U-Pb zircon ages. Precambrian Research, 2016, 274, 110-135.	2.7	34
26	Accuracy of laser-ablation (LA)-MC-ICPMS Sr isotope analysis of (bio)apatite â€“ a problem reassessed. Journal of Analytical Atomic Spectrometry, 2016, 31, 259-269.	3.0	52
27	LAâ€ICPMS Ba/Ca analyses of planktic foraminifera from the <scp>B</scp>ay of <scp>B</scp>engal: Implications for late <scp>P</scp>leistocene orbital control on monsoon freshwater flux. Geochemistry, Geophysics, Geosystems, 2015, 16, 2598-2618.	2.5	19
28	BIOTIC AND ENVIRONMENTAL ORIGINS OF THE SOUTHEAST ASIAN MARINE BIODIVERSITY HOTSPOT: THE THROUGHFLOW PROJECT. Palaios, 2015, 30, 1-6.	1.3	15
29	Mg/Ca-temperature and seawater-test chemistry relationships in the shallow-dwelling large benthic foraminifera Operculina ammonoides. Geochimica Et Cosmochimica Acta, 2015, 148, 325-342.	3.9	106
30	Holocene flood frequency reconstruction from speleothems inÂnorthern Spain. Quaternary Science Reviews, 2015, 127, 129-140.	3.0	18
31	LATE MIOCENE SEASONAL TO SUBDECADAL CLIMATE VARIABILITY IN THE INDO-WEST PACIFIC (EAST) Tj ETQq1 1 0.784314 rgBT /Over	1.3	19
32	Volcanic ash fall events identified using principal component analysis of a high-resolution speleothem trace element dataset. Earth and Planetary Science Letters, 2015, 426, 36-45.	4.4	29
33	Regional temperature, atmospheric circulation, and sea-ice variability within the Younger Dryas Event constrained using a speleothem from northern Iberia. Earth and Planetary Science Letters, 2015, 419, 101-110.	4.4	75
34	The RESET project: constructing a European tephra lattice for refined synchronisation of environmental and archaeological events during the last c. 100Âka. Quaternary Science Reviews, 2015, 118, 1-17.	3.0	60
35	Quaternary climatic instability in southâ€east Australia from a multiâ€proxy speleothem record. Journal of Quaternary Science, 2014, 29, 589-596.	2.1	14
36	Preservation of NOM-metal complexes in a modern hyperalkaline stalagmite: Implications for speleothem trace element geochemistry. Geochimica Et Cosmochimica Acta, 2014, 128, 29-43.	3.9	33

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37	Location of cation impurities in NGRIP deep ice revealed by cryo-cell UV-laser-ablation ICPMS. Journal of Glaciology, 2014, 60, 970-988.	2.2	21
38	Lombards on the Move â€“ An Integrative Study of the Migration Period Cemetery at SzÃ³lÃ¡d, Hungary. PLoS ONE, 2014, 9, e110793.	2.5	91
39	Evaluating Mg/Ca in belemnite calcite as a palaeo-proxy. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 388, 98-108.	2.3	25
40	Evaluation of the effect of diagenetic cements on element/Ca ratios in aragonitic Early Miocene (~16Ma) Caribbean corals: Implications for â€˜deep-timeâ€™ palaeo-environmental reconstructions. Palaeogeography, Palaeoclimatology, Palaeoecology, 2013, 369, 185-200.	2.3	38
41	Eocene seasonality and seawater alkaline earth reconstruction using shallow-dwelling large benthic foraminifera. Earth and Planetary Science Letters, 2013, 381, 104-115.	4.4	40
42	Late glacial explosive activity on Mount Etna: Implications for proximalâ€“distal tephra correlations and the synchronisation of Mediterranean archives. Journal of Volcanology and Geothermal Research, 2013, 265, 9-26.	2.1	45
43	LA-ICPMS elemental imaging of complex discontinuous carbonates: An example using large benthic foraminifera. Journal of Analytical Atomic Spectrometry, 2013, 28, 1039.	3.0	34
44	Earliest Evidence for Social Endogamy in the 9,000-Year-Old-Population of Basta, Jordan. PLoS ONE, 2013, 8, e65649.	2.5	29
45	Volcanic ash layers illuminate the resilience of Neanderthals and early modern humans to natural hazards. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13532-13537.	7.1	180
46	Petrogenesis of the SÃ³lheimar ignimbrite (Katla, Iceland): Implications for tephrostratigraphy. Geochimica Et Cosmochimica Acta, 2012, 86, 318-337.	3.9	18
47	Geochemistry of the Phlegraean Fields (Italy) proximal sources for major Mediterranean tephras: Implications for the dispersal of Plinian and co-ignimbritic components of explosive eruptions. Geochimica Et Cosmochimica Acta, 2012, 93, 102-128.	3.9	110
48	Iâ€šSTAL, a model for interpretation of Mg/Ca, Sr/Ca and Ba/Ca variations in speleothems and its forward and inverse application on seasonal to millennial scales. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	56
49	Deep time foraminifera Mg/Ca paleothermometry: Nonlinear correction for secular change in seawater Mg/Ca. Paleoceanography, 2012, 27, .	3.0	98
50	2D mapping of LA-ICPMS trace element distributions using R. Computers and Geosciences, 2012, 42, 152-161.	4.2	38
51	Direct chemical analysis of frozen ice cores by UV-laser ablation ICPMS. Journal of Analytical Atomic Spectrometry, 2011, 26, 2391.	3.0	21
52	Microanalysis of tephra by LA-ICP-MS â€” Strategies, advantages and limitations assessed using the ThorsmÃ¶rk ignimbrite (Southern Iceland). Chemical Geology, 2010, 279, 73-89.	3.3	94
53	ESR and U-series analyses of faunal material from Cuddie Springs, NSW, Australia: implications for the timing of the extinction of the Australian megafauna. Quaternary Science Reviews, 2010, 29, 596-610.	3.0	62
54	A snapshot of mantle metasomatism: Trace element analysis of coexisting fluid (LA-ICP-MS) and silicate (SIMS) inclusions in fibrous diamonds. Earth and Planetary Science Letters, 2009, 279, 362-372.	4.4	64

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55	Initial performance metrics of a new custom-designed ArF excimer LA-ICPMS system coupled to a two-volume laser-ablation cell. Journal of Analytical Atomic Spectrometry, 2009, 24, 209-214.	3.0	313
56	Tracing the life history of individual barramundi using laser ablation MC-ICP-MS Sr-isotopic and Sr/Ba ratios in otoliths. Marine and Freshwater Research, 2005, 56, 637.	1.3	96
57	Heterogeneous Hadean Hafnium: Evidence of Continental Crust at 4.4 to 4.5 Ga. Science, 2005, 310, 1947-1950.	12.6	476
58	â€œIsotope languageâ€•of the Alpine Iceman investigated with AMS and MS. Nuclear Instruments & Methods in Physics Research B, 2003, 204, 705-719.	1.4	53
59	Origin and Migration of the Alpine Iceman. Science, 2003, 302, 862-866.	12.6	229
60	Strengthening the link between geochronology, textures and petrology. Earth and Planetary Science Letters, 2003, 206, 237-251.	4.4	71
61	Geochronology: linking the isotopic record with petrology and textures â€” an introduction. Geological Society Special Publication, 2003, 220, 1-24.	1.3	39
62	Dating fault-generated pseudotachylytes: comparison of 40Ar/39Ar stepwise-heating, laser-ablation and Rbâ€“Sr microsampling analyses. Contributions To Mineralogy and Petrology, 2002, 144, 57-77.	3.1	60
63	Geochronological constraints on the evolution of the Periadriatic Fault System (Alps). International Journal of Earth Sciences, 2001, 90, 623-653.	1.8	121
64	The DAV and Periadriatic fault systems in the Eastern Alps south of the Tauern window. International Journal of Earth Sciences, 2001, 90, 593-622.	1.8	88
65	Isotopic Dating of Strain Fringe Increments: Duration and Rates of Deformation in Shear Zones. Science, 2000, 288, 2195-2198.	12.6	93
66	Rbâ€“Sr microchrons of synkinematic mica in mylonites: an example from the DAV fault of the Eastern Alps. Earth and Planetary Science Letters, 2000, 180, 385-397.	4.4	94
67	Deformation-induced resetting of Rb/Sr and ⁴⁰ Ar/ ³⁹ Ar mineral systems in a low-grade, polymetamorphic terrane (Eastern Alps, Austria). Journal of the Geological Society, 1999, 156, 261-278.	2.1	59