Anthony Dosseto

List of Publications by Year
in descending order

93 papers	4,773 citations	136950 32 h-index	98798 67 g-index
114 all docs	114 docs citations	114 times ranked	5014 citing authors

#	Article	IF	Citations
1	Amphibole â€œspongeâ€•in arc crust?. Geology, 2007, 35, 787.	4.4	848
2	Pleistocene cave art from Sulawesi, Indonesia. Nature, 2014, 514, 223-227.	27.8	407
3	Revised stratigraphy and chronology for Homo floresiensis at Liang Bua in Indonesia. Nature, 2016, 532, 366-369.	27.8	252
4	The age of Homo naledi and associated sediments in the Rising Star Cave, SouthÂAfrica. ELife, 2017, 6, .	6.0	214
5	Riverine Li isotope fractionation in the Amazon River basin controlled by the weathering regimes. Geochimica Et Cosmochimica Acta, 2015, 164, 71-93.	3.9	192
6	Geophysical constraints on deep weathering and water storage potential in the Southern Sierra Critical Zone Observatory. Earth Surface Processes and Landforms, 2014, 39, 366-380.	2.5	177
7	An Interâ€Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. Geostandards and Geoanalytical Research, 2008, 32, 65-91.	1.9	130
8	Continuous adsorption and biotransformation of micropollutants by granular activated carbon-bound laccase in a packed-bed enzyme reactor. Bioresource Technology, 2016, 210, 108-116.	9.6	127
9	Time scale and conditions of weathering under tropical climate: Study of the Amazon basin with U-series. Geochimica Et Cosmochimica Acta, 2006, 70, 71-89.	3.9	125
10	Uranium-series isotopes in river materials: Insights into the timescales of erosion and sediment transport. Earth and Planetary Science Letters, 2008, 265, 1-17.	4.4	123
11	The evolution of weathering profiles through time: New insights from uranium-series isotopes. Earth and Planetary Science Letters, 2008, 274, 359-371.	4.4	112
12	Climatic records over the past 30Âka from temperate Australia â€“ a synthesis from the Oz-INTIMATE workgroup. Quaternary Science Reviews, 2013, 74, 58-77.	3.0	110
13	Weathering and transport of sediments in the Bolivian Andes: Time constraints from uranium-series isotopes. Earth and Planetary Science Letters, 2006, 248, 759-771.	4.4	95
14	Climatic and vegetation control on sediment dynamics during the last glacial cycle. Geology, 2010, 38, 395-398.	4.4	91
15	Rapid regolith formation over volcanic bedrock and implications for landscape evolution. Earth and Planetary Science Letters, 2012, 337-338, 47-55.	4.4	83
16	U-series disequilibria in suspended river sediments and implication for sediment transfer time in alluvial plains: The case of the Himalayan rivers. Geochimica Et Cosmochimica Acta, 2010, 74, 2851-2865.	3.9	80
17	Uranium-series isotopes in colloids and suspended sediments: Timescale for sediment production and transport in the Murrayâ€“Darling River system. Earth and Planetary Science Letters, 2006, 246, 418-431.	4.4	78
18	U-TH-PA-RA study of the Kamchatka arc: new constraints on the genesis of arc lavas. Geochimica Et Cosmochimica Acta, 2003, 67, 2857-2877.	3.9	70

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19	Regolith formation rate from U-series nuclides: Implications from the study of a spheroidal weathering profile in the Rio Icacos watershed (Puerto Rico). Geochimica Et Cosmochimica Acta, 2013, 100, 73-95.	3.9	69
20	A global environmental crisis 42,000 years ago. Science, 2021, 371, 811-818.	12.6	61
21	Impact of climate change and human activity on soil landscapes over the past 12,300 years. Scientific Reports, 2018, 8, 247.	3.3	51
22	Extinction of eastern Sahul megafauna coincides with sustained environmental deterioration. Nature Communications, 2020, 11, 2250.	12.8	51
23	Dehydration and partial melting in subduction zones: Constraints from U-series disequilibria. Journal of Geophysical Research, 2003, 108, .	3.3	48
24	Elemental signatures of Australopithecus africanus teeth reveal seasonal dietary stress. Nature, 2019, 572, 112-115.	27.8	48
25	Sediment residence times constrained by uranium-series isotopes: A critical appraisal of the comminution approach. Geochimica Et Cosmochimica Acta, 2013, 103, 245-262.	3.9	46
26	Age and weathering rate of sediments in small catchments: The role of hillslope erosion. Geochimica Et Cosmochimica Acta, 2014, 132, 238-258.	3.9	46
27	The erosion response to Quaternary climate change quantified using uranium isotopes and in situ - produced cosmogenic nuclides. Earth-Science Reviews, 2016, 155, 60-81.	9.1	44
28	Source depletion and extent of melting in the Tongan sub-arc mantle. Earth and Planetary Science Letters, 2008, 273, 279-288.	4.4	43
29	The time scale of river sediment source-to-sink processes in East Asia. Chemical Geology, 2016, 446, 138-146.	3.3	43
30	Rapid response of silicate weathering rates to climate change in the Himalaya. Geochemical Perspectives Letters, 0, , 10-19.	5.0	43
31	Soil formation rates determined from Uranium-series isotope disequilibria in soil profiles from the southeastern Australian highlands. Earth and Planetary Science Letters, 2013, 379, 26-37.	4.4	38
32	Reappraisal of fluid and sediment contributions to Lesser Antilles magmas. Chemical Geology, 2009, 265, 272-278.	3.3	37
33	Last interglacial (MIS 5e) sea-level determined from a tectonically stable, far-field location, Eyre Peninsula, southern Australia. Australian Journal of Earth Sciences, 2016, 63, 611-630.	1.0	37
34	From direct to indirect lithium targets: a comprehensive review of omics data. Metallomics, 2017, 9, 1326-1351.	2.4	34
35	The last interglacial (MIS 5e) sea level highstand from a tectonically stable far-field setting, Yorke Peninsula, southern Australia. Marine Geology, 2018, 398, 126-136.	2.1	31
36	Sediment residence time reveals Holocene shift from climatic to vegetation control on catchment erosion in the Balkans. Global and Planetary Change, 2019, 177, 186-200.	3.5	31

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37	Uâ€“Thâ€“Ra fractionation during crustal-level andesite formation at Ruapehu volcano, New Zealand. Chemical Geology, 2007, 244, 437-451.	3.3	29
38	Late-Holocene climatic variability indicated by three natural archives in arid southern Australia. Holocene, 2014, 24, 104-117.	1.7	27
39	An automated chromatography procedure optimized for analysis of stable Cu isotopes from biological materials. Journal of Analytical Atomic Spectrometry, 2016, 31, 2023-2030.	3.0	27
40	Insights on catchment-wide weathering regimes from boron isotopes in riverine material. Geochimica Et Cosmochimica Acta, 2019, 261, 35-55.	3.9	26
41	Considerations for U-series dating of sediments: Insights from the Flinders Ranges, South Australia. Chemical Geology, 2013, 340, 40-48.	3.3	23
42	Assessment of a sequential phase extraction procedure for uranium-series isotope analysis of soils and sediments. Applied Radiation and Isotopes, 2014, 83, 47-55.	1.5	23
43	Evaluating the removal of non-detrital matter from soils and sediment using uranium isotopes. Chemical Geology, 2015, 396, 124-133.	3.3	23
44	Transient landscape dynamics across the Southeastern Australian Escarpment. Earth and Planetary Science Letters, 2019, 506, 397-406.	4.4	23
45	The delicate balance between soil production and erosion, and its role on landscape evolution. Applied Geochemistry, 2011, 26, S24-S27.	3.0	21
46	Arrested development: Erosional equilibrium in the southern Sierra Nevada, California, maintained by feedbacks between channel incision and hillslope sediment production. Bulletin of the Geological Society of America, 2019, 131, 1179-1202.	3.3	21
47	Technical note: Optimizing the utility of combined GPR, OSL, and Lidar (GOaL) to extract paleoenvironmental records and decipher shoreline evolution. Climate of the Past, 2019, 15, 389-404.	3.4	20
48	Temporal Variations in U-series Disequilibria in an Active Caldera, Rabaul, Papua New Guinea. Journal of Petrology, 2009, 50, 507-529.	2.8	19
49	Using 10Be cosmogenic isotopes to estimate erosion rates and landscape changes during the Plio-Pleistocene in the Cradle of Humankind, South Africa. Journal of Human Evolution, 2016, 96, 19-34.	2.6	19
50	Geochemical variations in the Quaternary Andean back-arc volcanism, southern Mendoza, Argentina. Lithos, 2014, 208-209, 251-264.	1.4	18
51	Sample preparation for determination of comminution ages in lacustrine and marine sediments. Chemical Geology, 2018, 479, 123-135.	3.3	18
52	Assessing the effect of sequential extraction on the uranium-series isotopic composition of a basaltic weathering profile. Chemical Geology, 2016, 446, 126-137.	3.3	16
53	Incipient chemical weathering at bedrock fracture interfaces in a tropical critical zone system, Puerto Rico. Geochimica Et Cosmochimica Acta, 2019, 252, 61-87.	3.9	16
54	Technical note: Lithium isotopes in dolostone as a palaeo-environmental proxy â€“ an experimental approach. Climate of the Past, 2019, 15, 635-646.	3.4	16

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55	Sediment residence times in catchments draining to the Gulf of Carpentaria, northern Australia, inferred by uranium comminution dating. Geochimica Et Cosmochimica Acta, 2019, 244, 264-291.	3.9	16
56	Very long hillslope transport timescales determined from uranium-series isotopes in river sediments from a large, tectonically stable catchment. Geochimica Et Cosmochimica Acta, 2014, 142, 442-457.	3.9	14
57	Local topography and erosion rate control regolith thickness along a ridgeline in the Sierra Nevada, California. Earth Surface Processes and Landforms, 2015, 40, 1779-1790.	2.5	14
58	Quaternary vertebrate faunas from Sumba, Indonesia: implications for Wallacean biogeography and evolution. Proceedings of the Royal Society B: Biological Sciences, 2017, 284, 20171278.	2.6	14
59	(210Pb/226Ra) variations during the 1994â€“2001 intracaldera volcanism at Rabaul Caldera. Journal of Volcanology and Geothermal Research, 2009, 184, 416-426.	2.1	13
60	Longitudinal assessment of metal concentrations and copper isotope ratios in the G93A SOD1 mouse model of amyotrophic lateral sclerosis. Metallomics, 2017, 9, 161-174.	2.4	12
61	The distribution of (234U/238U) activity ratios in river sediments. Geochimica Et Cosmochimica Acta, 2020, 290, 216-234.	3.9	12
62	Assessment of the controls on (234U/238U) activity ratios recorded in detrital lacustrine sediments. Chemical Geology, 2020, 550, 119698.	3.3	12
63	Age and rate of weathering determined using uranium-series isotopes: Testing various approaches. Geochimica Et Cosmochimica Acta, 2019, 246, 213-233.	3.9	11
64	Impact of inorganic salts on degradation of bisphenol A and diclofenac by crude extracellular enzyme from Pleurotus ostreatus. Biocatalysis and Biotransformation, 2019, 37, 10-17.	2.0	11
65	Geochemical methods to infer landscape response to Quaternary climate change and land use in depositional archives: A review. Earth-Science Reviews, 2020, 207, 103218.	9.1	11
66	Prograded Barriers + GPR + OSL = Insight on Coastal Change over Intermediate Spatial and Temporal Scales. Journal of Coastal Research, 2016, 75, 368-372.	0.3	9
67	Composite grains from volcanic terranes: Internal dose rates of supposed â€˜potassium-richâ€™ feldspar grains used for optical dating at Liang Bua, Indonesia. Quaternary Geochronology, 2021, 64, 101182.	1.4	9
68	Diversity, equity, and inclusion: Tackling under-representation and recognition of talents in geochemistry and cosmochemistry. Geochimica Et Cosmochimica Acta, 2021, 310, 363-371.	3.9	9
69	Uranium-series isotope and thermal constraints on the rate and depth of silicic magma genesis. Geological Society Special Publication, 2008, 304, 169-181.	1.3	8
70	Quantifying weathering rind formation rates using in situ measurements of U-series isotopes with laser ablation and inductively coupled plasma-mass spectrometry. Geochimica Et Cosmochimica Acta, 2019, 247, 1-26.	3.9	8
71	Determination of magnesium isotopic ratios of biological reference materials via multiâ€collector inductively coupled plasma mass spectrometry. Rapid Communications in Mass Spectrometry, 2021, 35, e9074.	1.5	8
72	Quaternary volcanic evolution in the continental back-arc of southern Mendoza, Argentina. Journal of South American Earth Sciences, 2018, 84, 88-103.	1.4	7

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73	Geochemical evolution of soils on Reunion Island. Geochimica Et Cosmochimica Acta, 2022, 318, 263-278.	3.9	7
74	Reappraisal of uranium-series isotope data in Kamchatka lavas: implications for continental arc magma genesis. Geological Society Special Publication, 2014, 385, 103-116.	1.3	6
75	Geochronological, morphometric and geochemical constraints on the Pampas Onduladas long basaltic flow (PayÃºn MatrÃº Volcanic Field, Mendoza, Argentina). Journal of Volcanology and Geothermal Research, 2014, 289, 114-129.	2.1	6
76	Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. Quaternary Science Reviews, 2018, 197, 112-128.	3.0	6
77	SpinChemâ„¢: rapid element purification from biological and geological matrices via centrifugation for MC-ICP-MS isotope analyses â€“ a case study with Zn. Journal of Analytical Atomic Spectrometry, 2020, 35, 863-872.	3.0	5
78	Middle to Late Quaternary palaeolandscapes of the central Azraq Basin, Jordan: Deciphering discontinuous records of human-environment dynamics at the arid margin of the Levant. Quaternary International, 2022, 635, 31-52.	1.5	5
79	Colluvial slope agriculture in context: An extensive agricultural landscape along the slopes of Punaluâ€˜u Valley, Oâ€˜ahu Island, Hawaiâ€˜i. Journal of Island and Coastal Archaeology, 2024, 19, 30-56.	1.4	5
80	Late Pleistocene interstadial sea-levels (MIS 5a) in Gulf St Vincent, southern Australia, constrained by amino acid racemization dating of the benthic foraminifer Elphidium macelliforme. Quaternary Science Reviews, 2021, 259, 106899.	3.0	4
81	Chemical Weathering (U-Series). Encyclopedia of Earth Sciences Series, 2015, , 152-169.	0.1	4
82	Links between Catchment Erosion and Climate Investigated with Uranium Series Isotopes. ASEG Extended Abstracts, 2010, 2010, 1-3.	0.1	2
83	Localised magmatic constraints on continental back-arc volcanism in southern Mendoza, Argentina: the Santa Maria Volcano. Bulletin of Volcanology, 2016, 78, 1.	3.0	2
84	Assessment of metal concentrations in the SOD1G93A mouse model of amyotrophic lateral sclerosis and its potential role in muscular denervation, with particular focus on muscle tissue. Molecular and Cellular Neurosciences, 2018, 88, 319-329.	2.2	2
85	UThwigl â€” An R package for closed- and open-system uraniumâ€“thorium dating. Quaternary Geochronology, 2022, 67, 101235.	1.4	2
86	Response to Comment on â€œA global environmental crisis 42,000 years agoâ€• Science, 2021, 374, eabi9756.	12.6	2
87	Chemical Weathering (U-Series). , 2014, , 1-28.		1
88	The age of dustâ€”A new hydrological indicator in arid environments?. Geology, 2021, 49, 728-732.	4.4	1
89	Record of Neotectonics and Deep Crustal Fluid Circulation Along the Santa Fe Fault Zone in Travertine Deposits of the Lucero Uplift, New Mexico, USA. Geochemistry, Geophysics, Geosystems, 2021, 22, e2020GC009454.	2.5	1
90	Late Quaternary neotectonics in the Birdâ€™s Head Peninsula (West Papua), Indonesia: Implications for plate motions in northwestern New Guinea, western Pacific. Journal of Asian Earth Sciences, 2022, 236, 105336.	2.3	1

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91	U and Th Decay Series Isotopes. , 2021, , 134-149.		0
92	Response to Comment on â€œA global environmental crisis 42,000 years agoâ€• Science, 2021, 374, eabh3655.	12.6	0
93	U-Th isotope data for dust sampled along a west to east transect in eastern Australia and some bedrock from the Flinders Ranges. Results in Geochemistry, 2022, 6, 100016.	0.8	0