

Anthony Dosseto

List of Publications by Year in descending order

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93
papers

4,773
citations

136950

32
h-index

98798

67
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114
all docs

114
docs citations

114
times ranked

5014
citing authors

#	ARTICLE	IF	CITATIONS
1	Colluvial slope agriculture in context: An extensive agricultural landscape along the slopes of Punalu'u Valley, Oahu Island, Hawaii. <i>Journal of Island and Coastal Archaeology</i> , 2024, 19, 30-56.	1.4	5
2	U-Thwigl - An R package for closed- and open-system uranium-thorium dating. <i>Quaternary Geochronology</i> , 2022, 67, 101235.	1.4	2
3	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. <i>Quaternary International</i> , 2022, 635, 31-52.	1.5	5
4	Geochemical evolution of soils on Reunion Island. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 318, 263-278.	3.9	7
5	U-Th isotope data for dust sampled along a west to east transect in eastern Australia and some bedrock from the Flinders Ranges. <i>Results in Geochemistry</i> , 2022, 6, 100016.	0.8	0
6	Late Quaternary neotectonics in the Bird's Head Peninsula (West Papua), Indonesia: Implications for plate motions in northwestern New Guinea, western Pacific. <i>Journal of Asian Earth Sciences</i> , 2022, 236, 105336.	2.3	1
7	A global environmental crisis 42,000 years ago. <i>Science</i> , 2021, 371, 811-818.	12.6	61
8	The age of dust - A new hydrological indicator in arid environments?. <i>Geology</i> , 2021, 49, 728-732.	4.4	1
9	Determination of magnesium isotopic ratios of biological reference materials via multi-collector inductively coupled plasma mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2021, 35, e9074.	1.5	8
10	Record of Neotectonics and Deep Crustal Fluid Circulation Along the Santa Fe Fault Zone in Travertine Deposits of the Lucero Uplift, New Mexico, USA. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2020GC009454.	2.5	1
11	Late Pleistocene interstadial sea-levels (MIS 5a) in Gulf St Vincent, southern Australia, constrained by amino acid racemization dating of the benthic foraminifer <i>Elphidium macelliforme</i> . <i>Quaternary Science Reviews</i> , 2021, 259, 106899.	3.0	4
12	Composite grains from volcanic terranes: Internal dose rates of supposed potassium-rich feldspar grains used for optical dating at Liang Bua, Indonesia. <i>Quaternary Geochronology</i> , 2021, 64, 101182.	1.4	9
13	Diversity, equity, and inclusion: Tackling under-representation and recognition of talents in geochemistry and cosmochemistry. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 310, 363-371.	3.9	9
14	U and Th Decay Series Isotopes. , 2021, , 134-149.		0
15	Response to Comment on "A global environmental crisis 42,000 years ago". <i>Science</i> , 2021, 374, eabi9756.	12.6	2
16	Response to Comment on "A global environmental crisis 42,000 years ago". <i>Science</i> , 2021, 374, eabh3655.	12.6	0
17	The distribution of (234U/238U) activity ratios in river sediments. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 290, 216-234.	3.9	12
18	Extinction of eastern Sahul megafauna coincides with sustained environmental deterioration. <i>Nature Communications</i> , 2020, 11, 2250.	12.8	51

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19	Geochemical methods to infer landscape response to Quaternary climate change and land use in depositional archives: A review. <i>Earth-Science Reviews</i> , 2020, 207, 103218.	9.1	11
20	Assessment of the controls on (²³⁴ U/ ²³⁸ U) activity ratios recorded in detrital lacustrine sediments. <i>Chemical Geology</i> , 2020, 550, 119698.	3.3	12
21	SpinChem [®] : rapid element purification from biological and geological matrices via centrifugation for MC-ICP-MS isotope analyses – a case study with Zn. <i>Journal of Analytical Atomic Spectrometry</i> , 2020, 35, 863-872.	3.0	5
22	Elemental signatures of <i>Australopithecus africanus</i> teeth reveal seasonal dietary stress. <i>Nature</i> , 2019, 572, 112-115.	27.8	48
23	Insights on catchment-wide weathering regimes from boron isotopes in riverine material. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 261, 35-55.	3.9	26
24	Arrested development: Erosional equilibrium in the southern Sierra Nevada, California, maintained by feedbacks between channel incision and hillslope sediment production. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 1179-1202.	3.3	21
25	Incipient chemical weathering at bedrock fracture interfaces in a tropical critical zone system, Puerto Rico. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 252, 61-87.	3.9	16
26	Sediment residence time reveals Holocene shift from climatic to vegetation control on catchment erosion in the Balkans. <i>Global and Planetary Change</i> , 2019, 177, 186-200.	3.5	31
27	Technical note: Lithium isotopes in dolostone as a palaeo-environmental proxy – an experimental approach. <i>Climate of the Past</i> , 2019, 15, 635-646.	3.4	16
28	Technical note: Optimizing the utility of combined GPR, OSL, and Lidar (GOaL) to extract paleoenvironmental records and decipher shoreline evolution. <i>Climate of the Past</i> , 2019, 15, 389-404.	3.4	20
29	Quantifying weathering rind formation rates using in situ measurements of U-series isotopes with laser ablation and inductively coupled plasma-mass spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 247, 1-26.	3.9	8
30	Transient landscape dynamics across the Southeastern Australian Escarpment. <i>Earth and Planetary Science Letters</i> , 2019, 506, 397-406.	4.4	23
31	Sediment residence times in catchments draining to the Gulf of Carpentaria, northern Australia, inferred by uranium comminution dating. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 244, 264-291.	3.9	16
32	Age and rate of weathering determined using uranium-series isotopes: Testing various approaches. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 246, 213-233.	3.9	11
33	Impact of inorganic salts on degradation of bisphenol A and diclofenac by crude extracellular enzyme from <i>Pleurotus ostreatus</i> . <i>Biocatalysis and Biotransformation</i> , 2019, 37, 10-17.	2.0	11
34	The last interglacial (MIS 5e) sea level highstand from a tectonically stable far-field setting, Yorke Peninsula, southern Australia. <i>Marine Geology</i> , 2018, 398, 126-136.	2.1	31
35	Quaternary volcanic evolution in the continental back-arc of southern Mendoza, Argentina. <i>Journal of South American Earth Sciences</i> , 2018, 84, 88-103.	1.4	7
36	Impact of climate change and human activity on soil landscapes over the past 12,300 years. <i>Scientific Reports</i> , 2018, 8, 247.	3.3	51

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37	Sample preparation for determination of comminution ages in lacustrine and marine sediments. <i>Chemical Geology</i> , 2018, 479, 123-135.	3.3	18
38	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. <i>Molecular and Cellular Neurosciences</i> , 2018, 88, 319-329.	2.2	2
39	Late quaternary fluvial incision and aggradation in the Lesser Himalaya, India. <i>Quaternary Science Reviews</i> , 2018, 197, 112-128.	3.0	6
40	Longitudinal assessment of metal concentrations and copper isotope ratios in the G93A SOD1 mouse model of amyotrophic lateral sclerosis. <i>Metallomics</i> , 2017, 9, 161-174.	2.4	12
41	From direct to indirect lithium targets: a comprehensive review of omics data. <i>Metallomics</i> , 2017, 9, 1326-1351.	2.4	34
42	Quaternary vertebrate faunas from Sumba, Indonesia: implications for Wallacean biogeography and evolution. <i>Proceedings of the Royal Society B: Biological Sciences</i> , 2017, 284, 20171278.	2.6	14
43	The age of <i>Homo naledi</i> and associated sediments in the Rising Star Cave, South Africa. <i>ELife</i> , 2017, 6, .	6.0	214
44	Last interglacial (MIS 5e) sea-level determined from a tectonically stable, far-field location, Eyre Peninsula, southern Australia. <i>Australian Journal of Earth Sciences</i> , 2016, 63, 611-630.	1.0	37
45	Revised stratigraphy and chronology for <i>Homo floresiensis</i> at Liang Bua in Indonesia. <i>Nature</i> , 2016, 532, 366-369.	27.8	252
46	Using ^{10}Be cosmogenic isotopes to estimate erosion rates and landscape changes during the Plio-Pleistocene in the Cradle of Humankind, South Africa. <i>Journal of Human Evolution</i> , 2016, 96, 19-34.	2.6	19
47	Prograded Barriers + GPR + OSL = Insight on Coastal Change over Intermediate Spatial and Temporal Scales. <i>Journal of Coastal Research</i> , 2016, 75, 368-372.	0.3	9
48	An automated chromatography procedure optimized for analysis of stable Cu isotopes from biological materials. <i>Journal of Analytical Atomic Spectrometry</i> , 2016, 31, 2023-2030.	3.0	27
49	Localised magmatic constraints on continental back-arc volcanism in southern Mendoza, Argentina: the Santa Maria Volcano. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	2
50	Assessing the effect of sequential extraction on the uranium-series isotopic composition of a basaltic weathering profile. <i>Chemical Geology</i> , 2016, 446, 126-137.	3.3	16
51	The time scale of river sediment source-to-sink processes in East Asia. <i>Chemical Geology</i> , 2016, 446, 138-146.	3.3	43
52	Continuous adsorption and biotransformation of micropollutants by granular activated carbon-bound laccase in a packed-bed enzyme reactor. <i>Bioresource Technology</i> , 2016, 210, 108-116.	9.6	127
53	The erosion response to Quaternary climate change quantified using uranium isotopes and in situ - produced cosmogenic nuclides. <i>Earth-Science Reviews</i> , 2016, 155, 60-81.	9.1	44
54	Local topography and erosion rate control regolith thickness along a ridgeline in the Sierra Nevada, California. <i>Earth Surface Processes and Landforms</i> , 2015, 40, 1779-1790.	2.5	14

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55	Evaluating the removal of non-detrital matter from soils and sediment using uranium isotopes. <i>Chemical Geology</i> , 2015, 396, 124-133.	3.3	23
56	Riverine Li isotope fractionation in the Amazon River basin controlled by the weathering regimes. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 164, 71-93.	3.9	192
57	Chemical Weathering (U-Series). <i>Encyclopedia of Earth Sciences Series</i> , 2015, , 152-169.	0.1	4
58	Chemical Weathering (U-Series). , 2014, , 1-28.		1
59	Geophysical constraints on deep weathering and water storage potential in the Southern Sierra Critical Zone Observatory. <i>Earth Surface Processes and Landforms</i> , 2014, 39, 366-380.	2.5	177
60	Late-Holocene climatic variability indicated by three natural archives in arid southern Australia. <i>Holocene</i> , 2014, 24, 104-117.	1.7	27
61	Assessment of a sequential phase extraction procedure for uranium-series isotope analysis of soils and sediments. <i>Applied Radiation and Isotopes</i> , 2014, 83, 47-55.	1.5	23
62	Reappraisal of uranium-series isotope data in Kamchatka lavas: implications for continental arc magma genesis. <i>Geological Society Special Publication</i> , 2014, 385, 103-116.	1.3	6
63	Geochronological, morphometric and geochemical constraints on the Pampas Onduladas long basaltic flow (Payán Matrón Volcanic Field, Mendoza, Argentina). <i>Journal of Volcanology and Geothermal Research</i> , 2014, 289, 114-129.	2.1	6
64	Pleistocene cave art from Sulawesi, Indonesia. <i>Nature</i> , 2014, 514, 223-227.	27.8	407
65	Very long hillslope transport timescales determined from uranium-series isotopes in river sediments from a large, tectonically stable catchment. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 442-457.	3.9	14
66	Geochemical variations in the Quaternary Andean back-arc volcanism, southern Mendoza, Argentina. <i>Lithos</i> , 2014, 208-209, 251-264.	1.4	18
67	Age and weathering rate of sediments in small catchments: The role of hillslope erosion. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 132, 238-258.	3.9	46
68	Climatic records over the past 30k from temperate Australia – a synthesis from the Oz-INTIMATE workgroup. <i>Quaternary Science Reviews</i> , 2013, 74, 58-77.	3.0	110
69	Considerations for U-series dating of sediments: Insights from the Flinders Ranges, South Australia. <i>Chemical Geology</i> , 2013, 340, 40-48.	3.3	23
70	Sediment residence times constrained by uranium-series isotopes: A critical appraisal of the comminution approach. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 245-262.	3.9	46
71	Soil formation rates determined from Uranium-series isotope disequilibria in soil profiles from the southeastern Australian highlands. <i>Earth and Planetary Science Letters</i> , 2013, 379, 26-37.	4.4	38
72	Regolith formation rate from U-series nuclides: Implications from the study of a spheroidal weathering profile in the Rio Icaos watershed (Puerto Rico). <i>Geochimica Et Cosmochimica Acta</i> , 2013, 100, 73-95.	3.9	69

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73	Rapid regolith formation over volcanic bedrock and implications for landscape evolution. <i>Earth and Planetary Science Letters</i> , 2012, 337-338, 47-55.	4.4	83
74	The delicate balance between soil production and erosion, and its role on landscape evolution. <i>Applied Geochemistry</i> , 2011, 26, S24-S27.	3.0	21
75	Links between Catchment Erosion and Climate Investigated with Uranium Series Isotopes. <i>ASEG Extended Abstracts</i> , 2010, 2010, 1-3.	0.1	2
76	Climatic and vegetation control on sediment dynamics during the last glacial cycle. <i>Geology</i> , 2010, 38, 395-398.	4.4	91
77	U-series disequilibria in suspended river sediments and implication for sediment transfer time in alluvial plains: The case of the Himalayan rivers. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 2851-2865.	3.9	80
78	Temporal Variations in U-series Disequilibria in an Active Caldera, Rabaul, Papua New Guinea. <i>Journal of Petrology</i> , 2009, 50, 507-529.	2.8	19
79	(²¹⁰ Pb/ ²²⁶ Ra) variations during the 1994-2001 intracaldera volcanism at Rabaul Caldera. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 184, 416-426.	2.1	13
80	Reappraisal of fluid and sediment contributions to Lesser Antilles magmas. <i>Chemical Geology</i> , 2009, 265, 272-278.	3.3	37
81	An Inter-Laboratory Assessment of the Thorium Isotopic Composition of Synthetic and Rock Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2008, 32, 65-91.	1.9	130
82	Uranium-series isotopes in river materials: Insights into the timescales of erosion and sediment transport. <i>Earth and Planetary Science Letters</i> , 2008, 265, 1-17.	4.4	123
83	Source depletion and extent of melting in the Tongan sub-arc mantle. <i>Earth and Planetary Science Letters</i> , 2008, 273, 279-288.	4.4	43
84	The evolution of weathering profiles through time: New insights from uranium-series isotopes. <i>Earth and Planetary Science Letters</i> , 2008, 274, 359-371.	4.4	112
85	Uranium-series isotope and thermal constraints on the rate and depth of silicic magma genesis. <i>Geological Society Special Publication</i> , 2008, 304, 169-181.	1.3	8
86	U-Th-Ra fractionation during crustal-level andesite formation at Ruapehu volcano, New Zealand. <i>Chemical Geology</i> , 2007, 244, 437-451.	3.3	29
87	Amphibole - sponge in arc crust?. <i>Geology</i> , 2007, 35, 787.	4.4	848
88	Uranium-series isotopes in colloids and suspended sediments: Timescale for sediment production and transport in the Murray-Darling River system. <i>Earth and Planetary Science Letters</i> , 2006, 246, 418-431.	4.4	78
89	Weathering and transport of sediments in the Bolivian Andes: Time constraints from uranium-series isotopes. <i>Earth and Planetary Science Letters</i> , 2006, 248, 759-771.	4.4	95
90	Time scale and conditions of weathering under tropical climate: Study of the Amazon basin with U-series. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 71-89.	3.9	125

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91	Dehydration and partial melting in subduction zones: Constraints from U-series disequilibria. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	48
92	U-TH-PA-RA study of the Kamchatka arc: new constraints on the genesis of arc lavas. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 2857-2877.	3.9	70
93	Rapid response of silicate weathering rates to climate change in the Himalaya. <i>Geochemical Perspectives Letters</i> , 0, , 10-19.	5.0	43