

Mark D Schmitz

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/8563995/publications.pdf>

Version: 2024-02-01

80
papers

5,128
citations

101543

36
h-index

88630

70
g-index

80
all docs

80
docs citations

80
times ranked

4439
citing authors

#	ARTICLE	IF	CITATIONS
1	Calibrating the Cryogenian. <i>Science</i> , 2010, 327, 1241-1243.	12.6	488
2	Reassessing the uranium decay constants for geochronology using ID-TIMS U–Pb data. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 426-445.	3.9	406
3	Derivation of isotope ratios, errors, and error correlations for U–Pb geochronology using ²⁰⁵ Pb– ²³⁵ U–(²³³ U)–spiked isotope dilution thermal ionization mass spectrometric data. <i>Geochemistry, Geophysics, Geosystems</i> , 2007, 8, .	2.5	320
4	U-Pb zircon and titanite systematics of the Fish Canyon Tuff: an assessment of high-precision U-Pb geochronology and its application to young volcanic rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2571-2587.	3.9	297
5	Ages and origins of rocks of the Killingworth dome, south-central Connecticut: Implications for the tectonic evolution of southern New England. <i>Numerische Mathematik</i> , 2007, 307, 63-118.	1.4	185
6	Palaeontological evidence for an Oligocene divergence between Old World monkeys and apes. <i>Nature</i> , 2013, 497, 611-614.	27.8	180
7	Subduction and terrane collision stabilize the western Kaapvaal craton tectosphere 2.9 billion years ago. <i>Earth and Planetary Science Letters</i> , 2004, 222, 363-376.	4.4	172
8	MKED1: A new titanite standard for in situ analysis of Sm–Nd isotopes and U–Pb geochronology. <i>Chemical Geology</i> , 2016, 425, 110-126.	3.3	153
9	Forearc ages reveal extensive short-lived and rapid seafloor spreading following subduction initiation. <i>Earth and Planetary Science Letters</i> , 2019, 506, 520-529.	4.4	148
10	Evaluation of Duluth Complex anorthositic series (AS3) zircon as a U-Pb geochronological standard: new high-precision isotope dilution thermal ionization mass spectrometry results. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 3665-3672.	3.9	130
11	Magma emplacement, differentiation and cooling in the middle crust: Integrated zircon geochronological–geochemical constraints from the Bergell Intrusion, Central Alps. <i>Chemical Geology</i> , 2015, 417, 322-340.	3.3	125
12	Neoproterozoic paleoweathering of tonalite and metabasalt: Implications for reconstructions of 2.69Ga early terrestrial ecosystems and paleoatmospheric chemistry. <i>Precambrian Research</i> , 2011, 189, 1-17.	2.7	121
13	Mesozoic thermal evolution of the southern African mantle lithosphere. <i>Lithos</i> , 2003, 71, 273-287.	1.4	118
14	Constraints on the thermal evolution of continental lithosphere from U-Pb accessory mineral thermochronometry of lower crustal xenoliths, southern Africa. <i>Contributions To Mineralogy and Petrology</i> , 2003, 144, 592-618.	3.1	98
15	Chronostratigraphy and Paleoclimatology of the Lodève Basin, France: Evidence for a pan-tropical aridification event across the Carboniferous–Permian boundary. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2015, 430, 118-131.	2.3	98
16	Sm–Nd isotope systematics by laser ablation-multicollector-inductively coupled plasma mass spectrometry: Methods and potential natural and synthetic reference materials. <i>Chemical Geology</i> , 2011, 284, 1-20.	3.3	96
17	Age intercalibration of ⁴⁰ Ar/ ³⁹ Ar sanidine and chemically distinct U/Pb zircon populations from the Alder Creek Rhyolite Quaternary geochronology standard. <i>Chemical Geology</i> , 2013, 345, 87-98.	3.3	96
18	Ultrahigh-temperature metamorphism in the lower crust during Neoproterozoic Ventersdorp rifting and magmatism, Kaapvaal Craton, southern Africa. <i>Bulletin of the Geological Society of America</i> , 2003, 115, 533-548.	3.3	91

#	ARTICLE	IF	CITATIONS
19	Decoupling of the Lu-Hf and Sm-Nd isotope systems during the evolution of granulitic lower crust beneath southern Africa. <i>Geology</i> , 2004, 32, 405.	4.4	83
20	A review of the Middleâ€“Late Pennsylvanian west European regional substages and floral biozones, and their correlation to the Geological Time Scale based on new Uâ€“Pb ages. <i>Earth-Science Reviews</i> , 2016, 154, 301-335.	9.1	81
21	High-precision Uâ€“Pb zircon age constraints on the Carboniferousâ€“Permian boundary in the southern Urals stratotype. <i>Earth and Planetary Science Letters</i> , 2007, 256, 244-257.	4.4	72
22	Understanding cratonic flood basalts. <i>Earth and Planetary Science Letters</i> , 2006, 245, 190-201.	4.4	69
23	Rapid magma evolution constrained by zircon petrochronology and ⁴⁰ Ar/ ³⁹ Ar sanidine ages for the Huckleberry Ridge Tuff, Yellowstone, USA. <i>Geology</i> , 2014, 42, 643-646.	4.4	68
24	Cryogenian of Yukon. <i>Precambrian Research</i> , 2018, 319, 114-143.	2.7	68
25	EOCENE ZIRCON REFERENCE MATERIAL FOR MICROANALYSIS OF U-Th-Pb ISOTOPES AND TRACE ELEMENTS. <i>Canadian Mineralogist</i> , 2014, 52, 409-421.	1.0	65
26	Exploring the law of detrital zircon: LA-ICP-MS and CA-TIMS geochronology of Jurassic forearc strata, Cook Inlet, Alaska, USA. <i>Geology</i> , 2019, 47, 1044-1048.	4.4	63
27	South Australian U-Pb zircon (CA-ID-TIMS) age supports globally synchronous Sturtian deglaciation. <i>Precambrian Research</i> , 2018, 315, 257-263.	2.7	58
28	Filling the gap: new precise Early Cretaceous radioisotopic ages from the Andes. <i>Geological Magazine</i> , 2015, 152, 557-564.	1.5	56
29	The Petrology of the Rotoiti Eruption Sequence, Taupo Volcanic Zone: an Example of Fractionation and Mixing in a Rhyolitic System. <i>Journal of Petrology</i> , 2004, 45, 2045-2066.	2.8	55
30	The significance of Uâ€“Pb zircon dates in lower crustal xenoliths from the southwestern margin of the Kaapvaal craton, southern Africa. <i>Chemical Geology</i> , 2001, 172, 59-76.	3.3	53
31	Kikiktat volcanics of Arctic Alaskaâ€“Melting of harzburgitic mantle associated with the Franklin large igneous province. <i>Lithosphere</i> , 2015, 7, 275-295.	1.4	50
32	Cambrian Sauk transgression in the Grand Canyon region redefined by detrital zircons. <i>Nature Geoscience</i> , 2018, 11, 438-443.	12.9	50
33	High-precision U-Pb zircon ages for explosive volcanism calibrating the NW European continental Autunian stratotype. <i>Gondwana Research</i> , 2017, 51, 118-136.	6.0	45
34	A high precision Uâ€“Pb radioisotopic age for the Agrio Formation, NeuquÃ©n Basin, Argentina: Implications for the chronology of the Hauterivian Stage. <i>Cretaceous Research</i> , 2017, 75, 193-204.	1.4	44
35	Pre- to synglacial rift-related volcanism in the Neoproterozoic (Cryogenian) Pocatello Formation, SE Idaho: New SHRIMP and CA-ID-TIMS constraints. <i>Lithosphere</i> , 2013, 5, 128-150.	1.4	41
36	Westward Growth of Laurentia by Preâ€“Late Jurassic Terrane Accretion, Eastern Oregon and Western Idaho, United States. <i>Journal of Geology</i> , 2015, 123, 233-267.	1.4	40

#	ARTICLE	IF	CITATIONS
37	Interhemispheric radio-astrochronological calibration of the time scales from the Andean and the Tethyan areas in the Valanginian–Hauterivian (Early Cretaceous). <i>Gondwana Research</i> , 2019, 70, 104-132.	6.0	39
38	An improved approach to age-modeling in deep time: Implications for the Santa Cruz Formation, Argentina. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 233-244.	3.3	36
39	Astronomical forcing of Carboniferous paralic sedimentary cycles in the Upper Silesian Basin, Czech Republic (Serpukhovian, latest Mississippian): New radiometric ages afford an astronomical age model for European biozonations and substages. <i>Earth-Science Reviews</i> , 2018, 177, 715-741.	9.1	33
40	New insights on the Orosirian carbon cycle, early Cyanobacteria, and the assembly of Laurentia from the Paleoproterozoic Belcher Group. <i>Earth and Planetary Science Letters</i> , 2019, 520, 141-152.	4.4	31
41	High-precision U–Pb zircon age constraints on the duration of rapid biogeochemical events during the Ludlow Epoch (Silurian Period). <i>Journal of the Geological Society</i> , 2015, 172, 157-160.	2.1	30
42	Coupled Re-Os and U-Pb geochronology of the Tonian Chuar Group, Grand Canyon. <i>Bulletin of the Geological Society of America</i> , 2018, 130, 1085-1098.	3.3	30
43	A middle–late Ediacaran volcano–sedimentary record from the eastern Arabian–Nubian shield. <i>Terra Nova</i> , 2014, 26, 120-129.	2.1	29
44	An ultrasonic method for isolating nonclay components from clay-rich material. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 492-498.	2.5	29
45	Geochronological constraints on Neoproterozoic rifting and onset of the Marinoan glaciation from the Kingston Peak Formation in Death Valley, California (USA). <i>Geology</i> , 2020, 48, 1083-1087.	4.4	29
46	One diamictite and two rifts: Stratigraphy and geochronology of the Gataga Mountain of northern British Columbia. <i>Numerische Mathematik</i> , 2018, 318, 167-207.	1.4	28
47	Terrestrial and marginal-marine record of the mid-Cretaceous Oceanic Anoxic Event 2 (OAE 2): High-resolution framework, carbon isotopes, CO ₂ and sea-level change. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2019, 524, 118-136.	2.3	27
48	U–Pb and Hf isotopic analysis of zircon in lower crustal xenoliths from the Navajo volcanic field: 1.4 Ga mafic magmatism and metamorphism beneath the Colorado Plateau. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 313-330.	3.1	25
49	Settling the issue of ‘decoupling’ between atmospheric carbon dioxide and global temperature: [CO ₂] _{atm} reconstructions across the warming Paleogene-Neogene divide. <i>Geology</i> , 2017, 45, 999-1002.	4.4	25
50	New toxodontid (Notoungulata) from the Early Miocene of Mendoza, Argentina. <i>Palaontologische Zeitschrift</i> , 2015, 89, 611-634.	1.6	24
51	Rapid emplacement of massive Duluth Complex intrusions within the North American Midcontinent Rift. <i>Geology</i> , 2021, 49, 185-189.	4.4	21
52	Apatites for destruction: Reference apatites from Morocco and Brazil for U-Pb petrochronology and Nd and Sr isotope geochemistry. <i>Chemical Geology</i> , 2022, 590, 120689.	3.3	21
53	A detrital zircon test of large-scale terrane displacement along the Arctic margin of North America. <i>Geology</i> , 2021, 49, 545-550.	4.4	20
54	Chronostratigraphic Revision of the Cloverly Formation (Lower Cretaceous, Western Interior, USA). <i>Bulletin of the Peabody Museum of Natural History</i> , 2019, 60, 3.	1.1	17

#	ARTICLE	IF	CITATIONS
55	The Main Ostrava Whetstone: composition, sedimentary processes, palaeogeography and geochronology of a major Mississippian volcanoclastic unit of the Upper Silesian Basin (Poland and Tj ETQq1 1 0.784814 rgBT5/Overlo	3.5	15
56	Middle Triassic lake deepening in the Ordos Basin of North China linked with global sea-level rise. <i>Global and Planetary Change</i> , 2021, 207, 103670.	1.4	14
57	Volcanic Initiation of the Eocene Heart Mountain Slide, Wyoming, USA. <i>Journal of Geology</i> , 2017, 125, 439-457.	2.7	14
58	Strain variations across the Proterozoic Penokean Orogen, USA and Canada. <i>Precambrian Research</i> , 2018, 318, 25-69.	1.5	14
59	Precise early Cambrian U-Pb zircon dates bracket the oldest trilobites and archaeocyaths in Moroccan West Gondwana. <i>Geological Magazine</i> , 2021, 158, 219-238.	4.4	14
60	Integrating zircon trace-element geochemistry and high-precision U-Pb zircon geochronology to resolve the timing and petrogenesis of the late Ediacaran-Cambrian Wichita igneous province, Southern Oklahoma Aulacogen, USA. <i>Geology</i> , 2021, 49, 268-272.	2.3	13
61	Climate- and eustasy-driven cyclicity in Pennsylvanian fusulinid assemblages, Donets Basin (Ukraine). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2014, 396, 41-61.	1.3	13
62	Isotopic evidence for a lithospheric origin of alkaline rocks and carbonatites: an example from southern Africa. <i>Canadian Journal of Earth Sciences</i> , 2016, 53, 1216-1226.	4.4	13
63	A link between rift-related volcanism and end-Ediacaran extinction? Integrated chemostratigraphy, biostratigraphy, and U-Pb geochronology from Sonora, Mexico. <i>Geology</i> , 2021, 49, 115-119.	1.2	13
64	(Re)proposal of three Cambrian Subsystems and their Geochronology. <i>Episodes</i> , 2021, 44, 273-283.	9.1	13
65	Coal-bearing fluvial cycles of the late Paleozoic tropics; astronomical control on sediment supply constrained by high-precision radioisotopic ages, Upper Silesian Basin. <i>Earth-Science Reviews</i> , 2022, 228, 103998.	1.4	11
66	Comparing desired workforce skills and reported teaching practices to model students' experiences in undergraduate geoscience programs. <i>Journal of Geoscience Education</i> , 2021, 69, 27-42.	3.3	11
67	TS-Mnz - A new monazite age reference material for U-Th-Pb microanalysis. <i>Chemical Geology</i> , 2021, 572, 120195.	6.0	11
68	New high-precision U-Pb zircon age of the Irati Formation (Paran Basin) and implications for the timing of the Kungurian anoxic events recorded in southern Gondwana. <i>Gondwana Research</i> , 2022, 107, 134-145.	4.4	9
69	The duration of a Yellowstone super-eruption cycle and implications for the age of the Olduvai subchron. <i>Earth and Planetary Science Letters</i> , 2017, 479, 377-386.	2.1	9
70	Volcanism at 1.45 Ma within the Yellowstone Volcanic Field, United States. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 224-238.	1.0	7
71	A new late Hemingfordian vertebrate fauna from Hawk Rim, Oregon, with implications for biostratigraphy and geochronology. <i>Journal of Vertebrate Paleontology</i> , 2016, 36, e1201095.	1.3	7
72	Depositional settings and changing composition of the Jambi palaeoflora within the Permian Mengkarang Formation (Sumatra, Indonesia). <i>Geological Journal</i> , 2018, 53, 2969-2990.		

#	ARTICLE	IF	CITATIONS
73	A new, high-precision CA-ID-TIMS date for the "Kalkberg" K-bentonite (Judds Falls Bentonite). <i>Lethaia</i> , 2018, 51, 344-356.	1.4	7
74	A robust age model for the Cryogenian Pocatello Formation of southeastern Idaho (northwestern) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 zircons. , 2022, 18, 825-849.		6
75	The radioisotopically constrained VisÅ©an onset of turbidites in the Moravian-Silesian part of the Rhenohercynian foreland basin (Central European Variscides). <i>International Journal of Earth Sciences</i> , 2018, 107, 711-727.	1.8	5
76	Timescales of impact melt sheet crystallization and the precise age of the Morokweng impact structure, South Africa. <i>Earth and Planetary Science Letters</i> , 2021, 567, 117013.	4.4	5
77	Reply to the comment on "Chronostratigraphy and paleoclimatology of the LodÅve Basin, France: Evidence for a pan-tropical aridification event across the Carboniferous-Permian boundary" by Michel et al., (2015). <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> 430, 118-131. <i>Palaeogeography, Palaeoclimatology, Palaeoecology</i> , 2016, 441, 1000-1004.	2.3	4
78	A Laurentian cratonic reference from the distal Proterozoic basement of Western Newfoundland using tandem <i>in situ</i> and isotope dilution U-pb zircon and titanite geochronology. <i>Numerische Mathematik</i> , 2021, 321, 1045-1079.	1.4	4
79	Synchronous emplacement of the anorthosite xenolith-bearing Beaver River diabase and one of the largest lava flows on Earth. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009909.	2.5	3
80	U-Pb geochronology and cyclostratigraphy of the middle Ediacaran upper Jibalah Group, eastern Arabian Shield. <i>Precambrian Research</i> , 2022, 375, 106674.	2.7	1