# Armin Zeh

List of Publications by Year
in descending order

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|---|---|---|---|
| 85<br>papers | 5,250<br>citations | 87888<br>38<br>h-index | 82547<br>72<br>g-index |
| 85<br>all docs | 85<br>docs citations | 85<br>times ranked | 2579<br>citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Combined Uâ€“Pb and Hf isotope LA-(MC-)ICP-MS analyses of detrital zircons: Comparison with SHRIMP and new constraints for the provenance and age of an Armorican metasediment in Central Germany. Earth and Planetary Science Letters, 2006, 249, 47-61. | 4.4 | 711 |
| 2 | Zircon formation versus zircon alteration â€" New insights from combined Uâ€“Pb and Luâ€“Hf in-situ LA-ICP-MS analyses, and consequences for the interpretation of Archean zircon from the Central Zone of the Limpopo Belt. Chemical Geology, 2009, 261, 230-243. | 3.3 | 639 |
| 3 | Archean Accretion and Crustal Evolution of the Kalahari Cratonâ€"the Zircon Age and Hf Isotope Record of Granitic Rocks from Barberton/Swaziland to the Francistown Arc. Journal of Petrology, 2009, 50, 933-966. | 2.8 | 290 |
| 4 | The Bushveld Complex was emplaced and cooled in less than one million years â€“ results of zirconology, and geotectonic implications. Earth and Planetary Science Letters, 2015, 418, 103-114. | 4.4 | 218 |
| 5 | Post-collisional magmatism: Crustal growth not identified by zircon Hfâ€“O isotopes. Earth and Planetary Science Letters, 2016, 456, 182-195. | 4.4 | 161 |
| 6 | Uâ€“Thâ€“Pb and Luâ€“Hf systematics of zircon from TTG's, leucosomes, meta-anorthosites and quartzites of the Limpopo Belt (South Africa): Constraints for the formation, recycling and metamorphism of Palaeoarchaean crust. Precambrian Research, 2010, 179, 50-68. | 2.7 | 153 |
| 7 | Hafnium isotope record of the Ancient Gneiss Complex, Swaziland, southern Africa: evidence for Archaean crustâ€“mantle formation and crust reworking between 3.66 and 2.73 Ga. Journal of the Geological Society, 2011, 168, 953-964. | 2.1 | 139 |
| 8 | The Adamawa-YadÃ© domain, a piece of Archaean crust in the Neoproterozoic Central African Orogenic belt (Bafia area, Cameroon). Precambrian Research, 2017, 299, 210-229. | 2.7 | 120 |
| 9 | Archaean to Palaeoproterozoic crustal evolution of the Aravalli mountain range, NW India, and its hinterland: The Uâ€“Pb and Hf isotope record of detrital zircon. Precambrian Research, 2011, 187, 155-164. | 2.7 | 107 |
| 10 | A linear Hf isotope-age array despite different granitoid sources and complex Archean geodynamics: Example from the Pietersburg block (South Africa). Earth and Planetary Science Letters, 2015, 430, 326-338. | 4.4 | 106 |
| 11 | Uâ€“Pb and Hf isotope record of detrital zircons from gold-bearing sediments of the Pietersburg Greenstone Belt (South Africa)â€"Is there a common provenance with the Witwatersrand Basin?. Precambrian Research, 2012, 204-205, 46-56. | 2.7 | 104 |
| 12 | Baltica- and Gondwana-derived sediments in the Mid-German Crystalline Rise (Central Europe): Implications for the closure of the Rheic ocean. Gondwana Research, 2010, 17, 254-263. | 6.0 | 101 |
| 13 | Nature of magmatism and sedimentation at a Columbia active margin: Insights from combined Uâ€“Pb and Luâ€“Hf isotope data of detrital zircons from NW India. Gondwana Research, 2013, 23, 1040-1052. | 6.0 | 100 |
| 14 | Unravelling the record of Archaean crustal evolution of the Bundelkhand Craton, northern India using Uâ€“Pb zirconâ€“monazite ages, Luâ€“Hf isotope systematics, and whole-rock geochemistry of granitoids. Precambrian Research, 2016, 281, 384-413. | 2.7 | 100 |
| 15 | Uâ€“Pb and Luâ€“Hf isotope record of detrital zircon grains from the Limpopo Belt â€“ Evidence for crustal recycling at the Hadean to early-Archean transition. Geochimica Et Cosmochimica Acta, 2008, 72, 5304-5329. | 3.9 | 95 |
| 16 | Protracted, coeval crust and mantle melting during Variscan late-orogenic evolution: Uâ€“Pb dating in the eastern French Massif Central. International Journal of Earth Sciences, 2017, 106, 421-451. | 1.8 | 89 |
| 17 | Timing of deposition and deformation of the Moodies Group (Barberton Greenstone Belt, South) Tj ETQq1 1 0.784314 rgBT /Overlock | 2.7 | 87 |
| 18 | Characterisation and Uâ€“Pbâ€“Hf isotope record of the 3.55Ga felsic crust from the Bundelkhand Craton, northern India. Precambrian Research, 2014, 255, 236-244. | 2.7 | 87 |

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|---|---|---|---|
| 19 | The oldest zircons of Africaâ€"Their Uâ€"Pbâ€"Hfâ€"O isotope and trace element systematics, and implications for Hadean to Archean crustâ€"mantle evolution. Precambrian Research, 2014, 241, 203-230. | 2.7 | 83 |
| 20 | The behavior of the Hf isotope system in radiation-damaged zircon during experimental hydrothermal alteration. American Mineralogist, 2010, 95, 1343-1348. | 1.9 | 80 |
| 21 | Hafnium isotope homogenization during metamorphic zircon growth in amphibolite-facies rocks: Examples from the Shackleton Range (Antarctica). Geochimica Et Cosmochimica Acta, 2010, 74, 4740-4758. | 3.9 | 76 |
| 22 | Juvenile crust formation in the northeastern Kaapvaal Craton at 2.97Gaâ€"Implications for Archean terrane accretion, and the source of the Pietersburg gold. Precambrian Research, 2013, 233, 20-43. | 2.7 | 71 |
| 23 | Uâ€"Pb and Hf isotope data of detrital zircons from the Barberton Greenstone Belt: constraints on provenance and Archaean crustal evolution. Journal of the Geological Society, 2013, 170, 215-223. | 2.1 | 70 |
| 24 | Dating the Itabira iron formation, QuadrilÃ¡tero FerrÃƒfero of Minas Gerais, Brazil, at 2.65Ga: Depositional Uâ€"Pb age of zircon from a metavolcanic layer. Precambrian Research, 2012, 204-205, 40-45. | 2.7 | 67 |
| 25 | New insights into the crustal growth of the Paleoproterozoic margin of the Archean KÃ©mÃ©na-Man domain, West African craton (Guinea): Implications for gold mineral system. Precambrian Research, 2017, 292, 258-289. | 2.7 | 66 |
| 26 | How do granitoid magmas mix with each other? Insights from textures, trace element and Srâ€"Nd isotopic composition of apatite and titanite from the Matok pluton (South Africa). Contributions To Mineralogy and Petrology, 2017, 172, 1. | 3.1 | 62 |
| 27 | Lower crust exhumation during Paleoproterozoic (Eburnean) orogeny, NW Ghana, West African Craton: Interplay of coeval contractional deformation and extensional gravitational collapse. Precambrian Research, 2016, 274, 82-109. | 2.7 | 58 |
| 28 | Paleoproterozoic juvenile crust formation and stabilisation in the south-eastern West African Craton (Ghana); New insights from U-Pb-Hf zircon data and geochemistry. Precambrian Research, 2016, 287, 1-30. | 2.7 | 54 |
| 29 | Pre-Cadomian to late-Variscan odyssey of the eastern Massif Central, France: Formation of the West European crust in a nutshell. Gondwana Research, 2017, 46, 170-190. | 6.0 | 53 |
| 30 | Archean crustal evolution of the Aravalli Banded Gneissic Complex, NW India: Constraints from zircon U-Pb ages, Lu-Hf isotope systematics, and whole-rock geochemistry of granitoids. Precambrian Research, 2019, 327, 81-102. | 2.7 | 47 |
| 31 | Decompressional Heating of the Mahalapye Complex (Limpopo Belt, Botswana): a Response to Palaeoproterozoic Magmatic Underplating?. Journal of Petrology, 2010, 51, 703-729. | 2.8 | 46 |
| 32 | Depositional age and sediment source of the auriferous Moeda Formation, QuadrilÃ¡tero FerrÃƒfero of Minas Gerais, Brazil: New constraints from Uâ€"Pbâ€"Hf isotopes in zircon and xenotime. Precambrian Research, 2014, 255, 96-108. | 2.7 | 45 |
| 33 | Source and age of upper Transvaal Supergroup, South Africa: Age-Hf isotope record of zircons in Magaliesberg quartzite and Dullstroom lava, and implications for Paleoproterozoic (2.5â€"2.0 Ga) continent reconstruction. Precambrian Research, 2016, 278, 1-21. | 2.7 | 44 |
| 34 | Monazite and cassiterite U Pb dating of the Abu Dabbab rare-metal granite, Egypt: Late Cryogenian metalliferous granite magmatism in the Arabian-Nubian Shield. Gondwana Research, 2020, 84, 71-80. | 6.0 | 44 |
| 35 | Palaeoproterozoic continental arc magmatism, and Neoproterozoic metamorphism in the Aravalli-Delhi orogenic belt, NW India: New constraints from in situ zircon U-Pb-Hf isotope systematics, monazite dating and whole-rock geochemistry. Journal of Asian Earth Sciences, 2017, 136, 68-88. | 2.3 | 43 |
| 36 | Two distinct sources of 1.73â€"1.70 Ga A-type granites from the northern Aravalli orogen, NW India: Constraints from in situ zircon U-Pb ages and Lu-Hf isotopes. Gondwana Research, 2017, 49, 164-181. | 6.0 | 43 |

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| 37 | New constraints on the auriferous Witwatersrand sediment provenance from combined detrital zircon Uâ€“Pb and Luâ€“Hf isotope data for the Eldorado Reef (Central Rand Group, South Africa). Precambrian Research, 2010, 183, 817-824. | 2.7 | 41 |
| 38 | Different age response of zircon and monazite during the tectono-metamorphic evolution of a high grade paragneiss from the Ruhla Crystalline Complex, central Germany. Contributions To Mineralogy and Petrology, 2003, 145, 691-706. | 3.1 | 39 |
| 39 | Geology of the Pitangui greenstone belt, Minas Gerais, Brazil: Stratigraphy, geochronology and BIF geochemistry. Precambrian Research, 2017, 291, 17-41. | 2.7 | 37 |
| 40 | From Cadomian magmatic arc to Rheic ocean closure: The geochronological-geochemical record of nappe protoliths of the MÃ¼nchberg Massif, NE Bavaria (Germany). Gondwana Research, 2018, 55, 135-152. | 6.0 | 36 |
| 41 | Petrological evolution in the roof of the high-grade metamorphic Central Zone of the Limpopo Belt, South Africa. Geological Magazine, 2005, 142, 229-240. | 1.5 | 34 |
| 42 | The Murchison Greenstone Belt, South Africa: Accreted slivers with contrasting metamorphic conditions. Precambrian Research, 2013, 227, 77-98. | 2.7 | 34 |
| 43 | In Situ Sr isotopes in Plagioclase and Trace Element Systematics in the Lowest Part of the Eastern Bushveld Complex: Dynamic Processes in an Evolving Magma Chamber. Journal of Petrology, 2017, 58, 327-360. | 2.8 | 34 |
| 44 | Detrital zircon without detritus: a result of 496-Ma-old fluidâ€“rock interaction during the gold-lode formation of Passagem, Minas Gerais, Brazil. Lithos, 2015, 212-215, 415-427. | 1.4 | 32 |
| 45 | Separating regional metamorphic and metasomatic assemblages and events in the northern Khetri complex, NW India: Evidence from mineralogy, whole-rock geochemistry and U-Pb monazite chronology. Journal of Asian Earth Sciences, 2016, 129, 117-141. | 2.3 | 30 |
| 46 | Variscan tectonics. , 0, , 599-664. | | 28 |
| 47 | Tectono-metamorphic evolution of the internal zone of the Pan-African Lufilian orogenic belt (Zambia): Implications for crustal reworking and syn-orogenic uranium mineralizations. Lithos, 2016, 240-243, 167-188. | 1.4 | 27 |
| 48 | Zircon U-Pb-Hf isotope systematics of Transvaal Supergroup â€“ Constraints for the geodynamic evolution of the Kaapvaal Craton and its hinterland between 2.65 and 2.06ÂGa. Precambrian Research, 2020, 345, 105760. | 2.7 | 26 |
| 49 | The geologic record of the exhumed root of the Central African Orogenic Belt in the central Cameroon domain (MbÃ© â€“ Sassa-Mbersi region). Journal of African Earth Sciences, 2019, 151, 286-314. | 2.0 | 25 |
| 50 | Zircon geochronology and Hf isotopes of the Dwalile Supracrustal Suite, Ancient Gneiss Complex, Swaziland: Insights into the diversity of Palaeoarchaean source rocks, depositional and metamorphic ages. Precambrian Research, 2017, 295, 48-66. | 2.7 | 24 |
| 51 | Molybdenum-isotope signals and cerium anomalies in Palaeoproterozoic manganese ore survive high-grade metamorphism. Scientific Reports, 2019, 9, 4570. | 3.3 | 21 |
| 52 | Rutile alteration and authigenic growth in metasandstones of the Moeda Formation, Minas Gerais, Brazil â€“ A result of Transamazonian fluidâ€“rock interaction. Chemical Geology, 2018, 483, 397-409. | 3.3 | 20 |
| 53 | Hybrid granite magmatism during orogenic collapse in the Eastern Desert of Egypt: Inferences from whole-rock geochemistry and zircon Uâ€“Pbâ€“Hf isotopes. Precambrian Research, 2021, 354, 106044. | 2.7 | 20 |
| 54 | Celebrating the Centenary of â€œThe Geology of Central Minas Gerais, Brazilâ€: An Insight from the SÃtio Largo Amphibolite. Journal of Geology, 2015, 123, 337-354. | 1.4 | 18 |

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|---|---|---|---|
| 55 | Petrogenesis of LREE-rich pegmatitic granite dykes in the central Grenville Province by partial melting of Paleoproterozoic-Archean metasedimentary rocks: Evidence from zircon U-Pb-Hf-O isotope and trace element analyses. Precambrian Research, 2019, 327, 327-360. | 2.7 | 18 |
| 56 | Hafnium Isotopic Composition of the Bushveld Complex Requires Mantle Meltâ€“Upper Crust Mixing: New Evidence from Zirconology of Mafic, Felsic and Metasedimentary Rocks. Journal of Petrology, 2019, 60, 2169-2200. | 2.8 | 18 |
| 57 | First Evidence of Late Paleoproterozoic/Early Mesoproterozoic Sediment Deposition and Magmatism in the Central Aravalli Orogen (NW India). Journal of Geology, 2020, 128, 109-129. | 1.4 | 18 |
| 58 | Archean to Proterozoic (3535â€“900ÂMa) crustal evolution of the central Aravalli Banded Gneissic Complex, NW India: New constraints from zircon U-Pb-Hf isotopes and geochemistry. Precambrian Research, 2021, 359, 106179. | 2.7 | 16 |
| 59 | Provenance and Magmaticâ€“Metamorphic Evolution of a Variscan Island-Arc Complex: Constraints from Uâ€“Pb Dating, Petrology, and Geospeedometry of the KyffhÃuser Crystalline Complex, Central Germany. Journal of Petrology, 2005, 46, 1393-1420. | 2.8 | 15 |
| 60 | Platiniferous goldâ€“tourmaline aggregates in the goldâ€“palladium belt of Minas Gerais, Brazil: implications for regional boron metasomatism. Mineralogy and Petrology, 2017, 111, 807-819. | 1.1 | 15 |
| 61 | Granitoids and Greenstone Belts of the Pietersburg Blockâ€”Witnesses of an Archaean Accretionary Orogen Along the Northern Edge of the Kaapvaal Craton. Regional Geology Reviews, 2019, , 83-107. | 1.2 | 15 |
| 62 | Timing of Upper Carboniferous-Permian horst-basin formation and magmatism in the NW Thuringian Forest, central Germany: a review. Geological Society Special Publication, 2004, 223, 319-334. | 1.3 | 13 |
| 63 | Comments on â€œPâ€“T record of two high-grade metamorphic events in the Central Zone of the Limpopo Complex, South Africaâ€•by L. L. Perchuk, D. D. van Reenen, D. A. Varlamov, S. M. van Kal, Tabatabaeimanesh, R. Boshoff. Lithos, 2008, 106, 399-402. | 1.4 | 13 |
| 64 | Silicate-Carbonate Liquid Immiscibility: Insights from the Crevier Alkaline Intrusion (Quebec). Journal of Petrology, 2020, 61, . | 2.8 | 13 |
| 65 | Mafic magmatism in the Bakhuis Granulite Belt (western Suriname): relationship with charnockite magmatism and UHT metamorphism. Gff, 2016, 138, 203-218. | 1.2 | 11 |
| 66 | U-Pb-Hf isotopic systematics of zircons from granites and metasediments of southern OuaddaÃ¯ (Chad), implications for crustal evolution and provenance in the Central Africa Orogenic Belt. Precambrian Research, 2021, 361, 106233. | 2.7 | 10 |
| 67 | Combining detrital zircon shape and Uâ€“Pbâ€“Hf isotope analyses for provenance studies â€“ An example from the Aquiri region, Amazon Craton, Brazil. Precambrian Research, 2021, 364, 106343. | 2.7 | 10 |
| 68 | Uâ€“Pb age and Hf isotope record of detrital zircon grains from the North Delhi Supergroup, NW India: implications for provenance and stratigraphic correlations. International Journal of Earth Sciences, 2019, 108, 2683-2697. | 1.8 | 9 |
| 69 | Geochronology, stratigraphy and geochemistry of Cambro-Ordovician, Silurian and Devonian volcanic rocks of the Saxothuringian Zone in NE Bavaria (Germany)â€”new constraints for Gondwana break up and oceanâ€“island magmatism. International Journal of Earth Sciences, 2018, 107, 359-377. | 1.8 | 8 |
| 70 | Zircon U-Pb-Hf isotope systematics of Limpopo Belt quartzites and igneous rocks, implications for Kaapvaal â€“ Zimbabwe Craton accretion. Precambrian Research, 2022, 373, 106631. | 2.7 | 8 |
| 71 | A review of Sm-Nd and Lu-Hf isotope studies in the Limpopo Complex and adjoining cratonic areas, and their bearing on models of crustal evolution and tectonism. , 2011, , . | | 7 |
| 72 | First evidence for Neoproterozoic magmatism in the QuadrilÃ¡tero FerrÃfero of Minas Gerais, Brazil, and geotectonic implications. Journal of South American Earth Sciences, 2020, 104, 102844. | 1.4 | 7 |

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| 73 | Alabandite (MnS) in metamorphosed manganiferous rocks at Morro da Mina, Brazil: palaeoenvironmental significance. European Journal of Mineralogy, 2019, 31, 973-982. | 1.3 | 5 |
| 74 | Neoproterozoic magmatic evolution of the southern OuaddaÃ¯ Massif (Chad). Bulletin - Societie Geologique De France, 2020, 191, 34. | 2.2 | 5 |
| 75 | Integrated geological-geophysical investigation of gold-hosting Rhyacian intrusions (Yaou, French) Tj ETQq1 1 0.784314 rgBT /Overlo | 1.4 | 5 |
| 76 | Geology of the KyffhÃuser crystalline complex. Neues Jahrbuch FÃ¼r Geologie Und PalÃontologie, 1994, 1994, 368-384. | 0.3 | 4 |
| 77 | Geochronological and morphological investigations of zircons from granite porphyry dikes, rhyolites and granite pebbles from the northwestern Thuringian forest. Zeitschrift Der Deutschen Geologischen Gesellschaft, 2000, 151, 187-206. | 0.1 | 4 |
| 78 | Graphiteâ€“(Mo,W)S2 intergrowth as a palaeoenvironmental proxy in metasedimentary rocks. Lithos, 2017, 294-295, 412-417. | 1.4 | 3 |
| 79 | Reply to comment by Ngako and Njonfang on â€œThe Adamawa-Yade domain, a piece of Archaean crust in the Neoproterozoic Central African Orogenic belt (Bafia area, Cameroon)â€, by Jacqueline TchakountÃ© et al., Precambrian Research 299 (2017) 210â€“229. Precambrian Research, 2018, 305, 516-518. | 2.7 | 3 |
| 80 | Reply to comment by M. Bouyo on â€œThe Adamawaâ€“Yade domain, a piece of Archaean crust in the Neoproterozoic Central African Orogenic belt (Bafia area, Cameroon)â€, by Jacqueline TchakountÃ© et al., Precambrian Research 299 (2017) 210â€“229. Precambrian Research, 2018, 305, 514-515. | 2.7 | 3 |
| 81 | Herkunft und Verwitterung von GranitgerÃ¶llen in Rotliegendsedimenten des nordwestlichen ThÃ¼ringer Waldes: Petrographische, geochemische und Zirkon-Untersuchungen. Neues Jahrbuch Fur Geologie Und Palaontologie - Abhandlungen, 2000, 218, 173-199. | 0.4 | 3 |
| 82 | Unconformityâ€covering pillow lava dated at 2.14â€‰Ga: Challenging the â€œstableâ€shelfâ€•Minas Supergroup of the QuadrilÃ¡tero FerrÃfero, Minas Gerais, Brazil. Geological Journal, 2022, 57, 2046-2057. | 1.3 | 3 |
| 83 | Lu-Hf Isotopic Data of the Mbé-Sassa-Mbersi Tonalite (Central Cameroon Domain): Indicator of ca. 1.0 Ga Juvenile Tonian Magmatism in the Region. Journal of Geoscience and Environment Protection, 2021, 09, 1-19. | 0.5 | 2 |
| 84 | Zircon of Triassic Age in the Stuttgart Formation (Schilfsandstein)â€”Witness of Tephra Fallout in the Central European Basin and New Constraints on the Mid-Carnian Episode. Frontiers in Earth Science, 2021, 9, . | 1.8 | 1 |
| 85 | Downdip Development of the Ni-Cu-PGE-Bearing Mafic to Ultramafic Uitkomst Complex, Mpumalanga Province, South Africa. Minerals (Basel, Switzerland), 2022, 12, 22. | 2.0 | 0 |