Erik E Scherer

List of Publications by Year
in descending order

56 papers	6,380 citations	136950 32 h-index	155660 55 g-index
59 all docs	59 docs citations	59 times ranked	3873 citing authors

#	Article	IF	Citations
1	Calibration of the Lutetium-Hafnium Clock. Science, 2001, 293, 683-687.	12.6	2,220
2	Separation of high field strength elements (Nb, Ta, Zr, Hf) and Lu from rock samples for MC-ICPMS measurements. Geochemistry, Geophysics, Geosystems, 2001, 2, n/a-n/a.	2.5	411
3	Luâ€“hf garnet geochronology: closure temperature relative to the Smâ€“Nd system and the effects of trace mineral inclusions. Geochimica Et Cosmochimica Acta, 2000, 64, 3413-3432.	3.9	388
4	Early core formation in asteroids and late accretion of chondrite parent bodies: Evidence from 182Hf-182W in CAIs, metal-rich chondrites, and iron meteorites. Geochimica Et Cosmochimica Acta, 2005, 69, 5805-5818.	3.9	288
5	Zircon as a Monitor of Crustal Growth. Elements, 2007, 3, 19-24.	0.5	211
6	Trace element fractionation during fluid-induced eclogitization in a subducting slab: trace element and Luâ€“Hfâ€“Smâ€“Nd isotope systematics. Earth and Planetary Science Letters, 2004, 227, 441-456.	4.4	206
7	High precision Luâ€“Hf geochronology of Eocene eclogite-facies rocks from Syros, Cyclades, Greece. Chemical Geology, 2007, 243, 16-35.	3.3	193
8	Evaluation of the 87Rb decay constant by age comparison against the Uâ€“Pb system. Earth and Planetary Science Letters, 2011, 301, 1-8.	4.4	177
9	Changes in dip of subducted slabs at depth: Petrological and geochronological evidence from HPâ€“UHP rocks (Tianshan, NW-China). Earth and Planetary Science Letters, 2011, 310, 9-20.	4.4	172
10	Luâ€“Hf and Smâ€“Nd garnet geochronology: Chronometric closure and implications for dating petrological processes. Earth and Planetary Science Letters, 2013, 381, 222-233.	4.4	156
11	Evidence for a Neoproterozoic ocean in south-central Africa from mid-oceanic-ridgeâ€“type geochemical signatures and pressure-temperature estimates of Zambian eclogites. Geology, 2003, 31, 243.	4.4	133
12	Î³-ray irradiation in the early Solar System and the conundrum of the 176Lu decay constant. Geochimica Et Cosmochimica Acta, 2006, 70, 1261-1270.	3.9	115
13	Tracing two orogenic cycles in one eclogite sample by Luâ€“Hf garnet chronometry. Nature Geoscience, 2011, 4, 178-183.	12.9	109
14	The Source Region and Melting Mineralogy of High-Titanium and Low-Titanium Lunar Basalts Deduced from Lu-Hf Isotope Data. Geochimica Et Cosmochimica Acta, 1998, 62, 525-544.	3.9	87
15	Subducted seamounts in an eclogite-facies ophiolite sequence: the Andean Raspas Complex, SW Ecuador. Contributions To Mineralogy and Petrology, 2010, 159, 265-284.	3.1	84
16	The behavior of the Hf isotope system in radiation-damaged zircon during experimental hydrothermal alteration. American Mineralogist, 2010, 95, 1343-1348.	1.9	80
17	Non-nucleosynthetic heterogeneity in non-radiogenic stable Hf isotopes: Implications for early solar system chronology. Earth and Planetary Science Letters, 2010, 295, 1-11.	4.4	80
18	Rapid eclogitisation of the Dabieâ€“Sulu UHP terrane: Constraints from Luâ€“Hf garnet geochronology. Earth and Planetary Science Letters, 2008, 273, 203-213.	4.4	75

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19	Isotopic evidence for chondritic Lu/Hf and Sm/Nd of the Moon. Earth and Planetary Science Letters, 2013, 380, 77-87.	4.4	74
20	Uâ€“Pb and Luâ€“Hf isotope systematics of lower crust from central-southern Mexico â€“ Geodynamic significance of Oaxaquia in a Rodinia Realm. Precambrian Research, 2010, 182, 149-162.	2.7	70
21	Separation of U, Pb, Lu, and Hf from single zircons for combined Uâ€“Pb dating and Hf isotope measurements by TIMS and MC-ICPMS. Chemical Geology, 2005, 220, 105-120.	3.3	67
22	Timing of eclogite facies metamorphism in the southernmost Scandinavian Caledonides by Luâ€“Hf and Smâ€“Nd geochronology. Contributions To Mineralogy and Petrology, 2010, 159, 521-539.	3.1	66
23	High precision determinations of 87Rb/85Rb in geologic materials by MC-ICP-MS. International Journal of Mass Spectrometry, 2005, 246, 10-18.	1.5	64
24	Luî—¸Hf geochronology applied to dating Cenozoic events affecting lower crustal xenoliths from Kilbourne Hole, New Mexico. Chemical Geology, 1997, 142, 63-78.	3.3	62
25	The W isotope composition of eucrite metals: constraints on the timing and cause of the thermal metamorphism of basaltic eucrites. Earth and Planetary Science Letters, 2005, 231, 41-52.	4.4	54
26	Where did the lower Paleozoic rocks of Yucatan come from? A Uâ€“Pb, Luâ€“Hf, and Smâ€“Nd isotope study. Chemical Geology, 2012, 312-313, 1-17.	3.3	54
27	A rapid and efficient ion-exchange chromatography for Luâ€“Hf, Smâ€“Nd, and Rbâ€“Sr geochronology and the routine isotope analysis of sub-ng amounts of Hf by MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2015, 30, 2323-2333.	3.0	52
28	Fractionation and mixing of Nd isotopes during thermal ionization mass spectrometry: implications for high precision 142Nd/144Nd analyses. Journal of Analytical Atomic Spectrometry, 2008, 23, 561.	3.0	48
29	Thermal evolution of an ancient subduction interface revealed by Luâ€“Hf garnet geochronology, HalilbaÄŸÄ± Complex (Anatolia). Geoscience Frontiers, 2019, 10, 127-148.	8.4	47
30	142Nd evidence for an enriched Hadean reservoir in cratonic roots. Nature, 2009, 459, 1118-1121.	27.8	45
31	Prolonged magmatism on 4 Vesta inferred from Hfâ€“W analyses of eucrite zircon. Earth and Planetary Science Letters, 2016, 452, 216-226.	4.4	38
32	Geochemical characteristics and Srâ€“Ndâ€“Hf isotope compositions of mantle xenoliths and host basalts from Assab, Eritrea: implications for the composition and thermal structure of the lithosphere beneath the Afar Depression. Contributions To Mineralogy and Petrology, 2010, 159, 731-751.	3.1	32
33	Evidence for evolved Hadean crust from Sr isotopes in apatite within Eoarchean zircon from the Acasta Gneiss Complex. Geochimica Et Cosmochimica Acta, 2018, 235, 450-462.	3.9	32
34	Creep of garnet in eclogite: Mechanisms and implications. Earth and Planetary Science Letters, 2011, 311, 411-419.	4.4	31
35	Lu-Hf garnet geochronology of eclogites from the Balma Unit (Pennine Alps): implications for Alpine paleotectonic reconstructions. Swiss Journal of Geosciences, 2008, 101, 173-189.	1.2	30
36	Provenance and exhumation of an exotic eclogite-bearing nappe in the Caledonides: a Uâ€“Pb and Rbâ€“Sr study of the JÃ¦ren nappe, SW Norway. Journal of the Geological Society, 2011, 168, 423-439.	2.1	27

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37	Late Silurian volcanism in coastal Maine: The Cranberry Island series. Bulletin of the Geological Society of America, 1999, 111, 686-708.	3.3	26
38	Aragonite and magnesite in eclogites from the JÃ¦ren nappe, SW Norway: disequilibrium in the system CaCO₃â€“MgCO₃ and petrological implications. Journal of Metamorphic Geology, 2008, 26, 959-979.	3.4	26
39	Effects of simple acid leaching of crushed and powdered geological materials on highâ€precision Pb isotope analyses. Geochemistry, Geophysics, Geosystems, 2015, 16, 2276-2302.	2.5	25
40	Revisiting the 142Nd deficits in the 1.48 Ga Khariar alkaline rocks, India. Chemical Geology, 2014, 386, 238-248.	3.3	23
41	Multistage magma mingling and the origin of flow banding in the Aliso lava dome, Tumacacori Mountains, southern Arizona. Journal of Geophysical Research, 1995, 100, 8381-8398.	3.3	21
42	Barium isotope abundances in meteorites and their implications for early Solar System evolution. Geochimica Et Cosmochimica Acta, 2016, 175, 282-298.	3.9	21
43	Lu-Hf geochronology of Mississippian high-pressure metamorphism in the AcatlÃ¡n Complex, southern MÃ©xico. Gondwana Research, 2016, 34, 174-186.	6.0	21
44	Metamorphic petrology of a highâ€‹T/lowâ€‹P granulite terrane (Damara belt, Namibia) â€“ Constraints from pseudosection modelling and highâ€precision Luâ€“Hf garnetâ€whole rock dating. Journal of Metamorphic Geology, 2019, 37, 41-69.	3.4	21
45	Potassium isotope composition of Mars reveals a mechanism of planetary volatile retention. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
46	Boron isotopes in tourmaline as a tracer of metasomatic processes in the Bamble sector of Southern Norway. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	19
47	Peak metamorphic temperatures from cation diffusion zoning in garnet. Journal of Metamorphic Geology, 2013, 31, 339-358.	3.4	14
48	Evidence for extinct 135Cs from Ba isotopes in Allende CAIs?. Geochimica Et Cosmochimica Acta, 2014, 133, 463-478.	3.9	14
49	Born in the Pacific and raised in the Caribbean: construction of the Escambray nappe stack, central Cuba. A review. European Journal of Mineralogy, 2019, 31, 5-34.	1.3	11
50	Reconciliation of the excess 176Hf conundrum in meteorites: Recent disturbances of the Lu-Hf and Sm-Nd isotope systematics. Geochimica Et Cosmochimica Acta, 2017, 212, 303-323.	3.9	9
51	The 176Lu-176Hf systematics of ALM-A: A sample of the recent Almahata Sitta meteorite fall.. Geochemical Perspectives Letters, 2017, , 45-54.	5.0	8
52	Neoproterozoic pre- and post-deformational metamorphism in the Western Domain of the Karagwe-Ankole Belt reconstructed by Lu-Hf garnet geochronology in the Kibuye-Gatumba area, Rwanda. Precambrian Research, 2020, 344, 105744.	2.7	6
53	Major geological cycles substantiated by Uâ€“Pb ages and ÎµHfi of detrital zircon grains from the Lower Rhine Basin. Chemical Geology, 2012, 294-295, 63-74.	3.3	5
54	The timing of blueschist-facies metamorphism in the Makrotantalon Unit on Andros Island, Greece: Cretaceous and Eocene high-pressure/low-temperature events?. Geological Magazine, 2022, 159, 1437-1453.	1.5	3

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55	Lu-Hf garnet geochronology of eclogites from the Balma Unit (Pennine Alps): implications for Alpine paleotectonic reconstructions. , 2008, , S173-S189.		2
56	Petrological and Luâ€“Hf age constraints for eclogitic rocks from the Pam Peninsula, New Caledonia. Lithos, 2021, 388-389, 106073.	1.4	1