## Karen Ziegler

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/5851489/publications.pdf

Version: 2024-02-01

42 papers

4,530 citations

236925 25 h-index 276875 41 g-index

42 all docs 42 docs citations

times ranked

42

4448 citing authors

#	Article	IF	CITATIONS
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. Science, 2013, 342, 1069-1073.	12.6	487
3	Biological control of terrestrial silica cycling and export fluxes to watersheds. Nature, 2005, 433, 728-731.	27.8	393
4	Isotopic Compositions of Cometary Matter Returned by Stardust. Science, 2006, 314, 1724-1728.	12.6	343
5	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. Science, 2013, 339, 780-785.	12.6	340
6	The impact of climate on the biogeochemical functioning of volcanic soils. Chemical Geology, 2003, 202, 195-223.	3.3	339
7	Natural variations of l´30Si ratios during progressive basalt weathering, Hawaiian Islands. Geochimica Et Cosmochimica Acta, 2005, 69, 4597-4610.	3.9	264
8	Isotopic composition of silicon measured by multicollector plasma source mass spectrometry in dry plasma mode. Journal of Analytical Atomic Spectrometry, 2003, 18, 213-218.	3.0	178
9	Experimentally determined Si isotope fractionation between silicate and Fe metal and implications for Earth's core formation. Earth and Planetary Science Letters, 2009, 288, 228-234.	4.4	115
10	Progressive aqueous alteration of CR carbonaceous chondrites. Geochimica Et Cosmochimica Acta, 2014, 139, 267-292.	3.9	113
11	Î'30Si systematics in a granitic saprolite, Puerto Rico. Geology, 2005, 33, 817.	4.4	108
12	The SPICE carbon isotope excursion in Siberia: a combined study of the upper Middle Cambrian–lowermost Ordovician Kulyumbe River section, northwestern Siberian Platform. Geological Magazine, 2008, 145, 609-622.	1.5	98
13	Metal–silicate silicon isotope fractionation in enstatite meteorites and constraints on Earth's core formation. Earth and Planetary Science Letters, 2010, 295, 487-496.	4.4	90
14	Halloysite as a kinetically controlled end product of arid-zone basalt weathering. Chemical Geology, 2003, 202, 461-478.	3.3	77
15	Carbon isotope stratigraphy of the Precambrian–Cambrian Sukharikha River section, northwestern Siberian platform. Geological Magazine, 2007, 144, 609-618.	1.5	71
16	Weathering, dust, and biocycling effects on soil silicon isotope ratios. Geochimica Et Cosmochimica Acta, 2010, 74, 876-889.	3.9	63
17	Reduced, reused and recycled: Detrital zircons define a maximum age for the Eoarchean (ca. 3750–3780) Tj E 283-293.	ETQq1 1 0.7 4.4	.784314 rgBT 60
18	Fall, recovery, and characterization of the Novato L6 chondrite breccia. Meteoritics and Planetary Science, 2014, 49, 1388-1425.	1.6	59

#	Article	IF	CITATIONS
19	The Northwest Africa 8159 martian meteorite: Expanding the martian sample suite to the early Amazonian. Geochimica Et Cosmochimica Acta, 2017, 218, 1-26.	3.9	58
20	Silica-rich volcanism in the early solar system dated at 4.565 Ga. Nature Communications, 2018, 9, 3036.	12.8	52
21	Early Solar System hydrothermal activity in chondritic asteroids on 1–10-year timescales. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 18306-18311.	7.1	40
22	Palaeohydrodynamics of fluids in the Brent Group (Oseberg Field, Norwegian North Sea) from chemical and isotopic compositions of formation waters. Applied Geochemistry, 2001, 16, 609-632.	3.0	35
23	Argon, oxygen, and boron isotopic evidence documenting 40ArE accumulation in phengite during water-rich high-pressure subduction metasomatism of continental crust. Earth and Planetary Science Letters, 2016, 446, 56-67.	4.4	30
24	Evidence for a multilayered internal structure of the chondritic acapulcoite-lodranite parent asteroid. Geochimica Et Cosmochimica Acta, 2018, 242, 82-101.	3.9	30
25	The Sariçiçek howardite fall in Turkey: Source crater of <scp>HED</scp> meteorites on Vesta and impact risk of Vestoids. Meteoritics and Planetary Science, 2019, 54, 953-1008.	1.6	30
26	Reclassification of Villalbeto de la Peñaâ€"Occurrence of a winonaiteâ€related fragment in a hydrothermally metamorphosed polymict Lâ€chondritic breccia. Meteoritics and Planetary Science, 2013, 48, 628-640.	1.6	26
27	Multiple Episodes of Clay Alteration at the Precambrian/Paleozoic Unconformity, Appalachian Basin: Isotopic Evidence for Long-Distance and Local Fluid Migrations. Clays and Clay Minerals, 2000, 48, 474-493.	1.3	25
28	Unique achondrite Northwest Africa 11042: Exploring the melting and breakup of the L chondrite parent body. Meteoritics and Planetary Science, 2020, 55, 622-648.	1.6	22
29	The Creston, California, meteorite fall and the origin of L chondrites. Meteoritics and Planetary Science, 2019, 54, 699-720.	1.6	21
30	The impact and recovery of asteroid 2018 LA. Meteoritics and Planetary Science, 2021, 56, 844-893.	1.6	21
31	Silicon isotope systematics of acidic weathering of fresh basalts, Kilauea Volcano, Hawai'i. Geochimica Et Cosmochimica Acta, 2015, 169, 63-81.	3.9	16
32	Reclassification of four aubrites as enstatite chondrite impact melts: Potential geochemical analogs for Mercury. Meteoritics and Planetary Science, 2019, 54, 785-810.	1.6	14
33	Orbit and origin of the <scp>LL</scp> 7 chondrite Dishchii'bikoh (Arizona). Meteoritics and Planetary Science, 2020, 55, 535-557.	1.6	10
34	The CM carbonaceous chondrite regolith Diepenveen. Meteoritics and Planetary Science, 2019, 54, 1431-1461.	1.6	9
35	Size scales over which ordinary chondrites and their parent asteroids are homogeneous in oxidation state and oxygen-isotopic composition. Geochimica Et Cosmochimica Acta, 2008, 72, 948-958.	3.9	8
36	Olivine-rich achondrites from Vesta and the missing mantle problem. Nature Communications, 2021, 12, 5443.	12.8	8

3

#	Article	IF	CITATIONS
37	Petrogenesis of Miller Range 07273, a new type of anomalous melt breccia: Implications for impact effects on the H chondrite asteroid. Meteoritics and Planetary Science, 2017, 52, 1963-1990.	1.6	7
38	Hydrous olivine alteration on Mars and Earth. Meteoritics and Planetary Science, 2020, 55, 1011-1030.	1.6	7
39	Quantifying site and species factors to inform the feasibility of eradication of alien plants from Southern Ocean Islands: Stellaria media on Macquarie Island. Biological Invasions, 2019, 21, 993-1005.	2.4	6
40	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. Meteoritics and Planetary Science, 2020, 55, 2341-2359.	1.6	4
41	Shock compaction heating and collisional processes in the production of type 3 ordinary chondrites: Lessons from the (nearly) unique L3 chondrite melt breccia Northwest Africa 8709. Meteoritics and Planetary Science, 2020, 55, 2117-2140.	1.6	3
42	OLIVINES IN MARTIAN METEORITE NWA 10416: ALTERATION AND OXYGEN ISOTOPE EVOLUTION. , 2016, , .		2