

# Karen Ziegler

## List of Publications by Year in descending order

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Version: 2024-02-01

42  
papers

4,530  
citations

236925

25  
h-index

276875

41  
g-index

42  
all docs

42  
docs citations

42  
times ranked

4448  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	1.6	21
2	Olivine-rich achondrites from Vesta and the missing mantle problem. <i>Nature Communications</i> , 2021, 12, 5443.	12.8	8
3	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2341-2359.	1.6	4
4	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. <i>Meteoritics and Planetary Science</i> , 2020, 55, 2117-2140.	1.6	3
5	Hydrous olivine alteration on Mars and Earth. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1011-1030.	1.6	7
6	Orbit and origin of the LL7 chondrite Dishchii'bikoh (Arizona). <i>Meteoritics and Planetary Science</i> , 2020, 55, 535-557.	1.6	10
7	Unique achondrite Northwest Africa 11042: Exploring the melting and breakup of the L chondrite parent body. <i>Meteoritics and Planetary Science</i> , 2020, 55, 622-648.	1.6	22
8	The Creston, California, meteorite fall and the origin of L chondrites. <i>Meteoritics and Planetary Science</i> , 2019, 54, 699-720.	1.6	21
9	The CM carbonaceous chondrite regolith Diepenveen. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1431-1461.	1.6	9
10	The SariÅsiÅsek howardite fall in Turkey: Source crater of HED meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
11	Reclassification of four aubrites as enstatite chondrite impact melts: Potential geochemical analogs for Mercury. <i>Meteoritics and Planetary Science</i> , 2019, 54, 785-810.	1.6	14
12	Quantifying site and species factors to inform the feasibility of eradication of alien plants from Southern Ocean Islands: <i>Stellaria media</i> on Macquarie Island. <i>Biological Invasions</i> , 2019, 21, 993-1005.	2.4	6
13	Evidence for a multilayered internal structure of the chondritic acapulcoite-lodranite parent asteroid. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 242, 82-101.	3.9	30
14	Silica-rich volcanism in the early solar system dated at 4.565 Ga. <i>Nature Communications</i> , 2018, 9, 3036.	12.8	52
15	The Northwest Africa 8159 martian meteorite: Expanding the martian sample suite to the early Amazonian. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 218, 1-26.	3.9	58
16	Petrogenesis of Miller Range 07273, a new type of anomalous melt breccia: Implications for impact effects on the H chondrite asteroid. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1963-1990.	1.6	7
17	Argon, oxygen, and boron isotopic evidence documenting $^{40}\text{Ar}/\text{E}$ accumulation in phengite during water-rich high-pressure subduction metasomatism of continental crust. <i>Earth and Planetary Science Letters</i> , 2016, 446, 56-67.	4.4	30
18	OLIVINES IN MARTIAN METEORITE NWA 10416: ALTERATION AND OXYGEN ISOTOPE EVOLUTION. , 2016, , .		2

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19	Silicon isotope systematics of acidic weathering of fresh basalts, Kilauea Volcano, Hawaii. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 169, 63-81.	3.9	16
20	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	1.6	59
21	Progressive aqueous alteration of CR carbonaceous chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 267-292.	3.9	113
22	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. <i>Science</i> , 2013, 342, 1069-1073.	12.6	487
23	Reduced, reused and recycled: Detrital zircons define a maximum age for the Eoarchean (ca. 3750±3780) Tj ETQq1 1 0.784314 rgB 283-293.	4.4	60
24	Unique Meteorite from Early Amazonian Mars: Water-Rich Basaltic Breccia Northwest Africa 7034. <i>Science</i> , 2013, 339, 780-785.	12.6	340
25	Reclassification of Villalbeto de la Peña Occurrence of a winonaite-related fragment in a hydrothermally metamorphosed polymict chondritic breccia. <i>Meteoritics and Planetary Science</i> , 2013, 48, 628-640.	1.6	26
26	Early Solar System hydrothermal activity in chondritic asteroids on 10-year timescales. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 18306-18311.	7.1	40
27	Weathering, dust, and biocycling effects on soil silicon isotope ratios. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 876-889.	3.9	63
28	Metal-silicate silicon isotope fractionation in enstatite meteorites and constraints on Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2010, 295, 487-496.	4.4	90
29	Experimentally determined Si isotope fractionation between silicate and Fe metal and implications for Earth's core formation. <i>Earth and Planetary Science Letters</i> , 2009, 288, 228-234.	4.4	115
30	Size scales over which ordinary chondrites and their parent asteroids are homogeneous in oxidation state and oxygen-isotopic composition. <i>Geochimica Et Cosmochimica Acta</i> , 2008, 72, 948-958.	3.9	8
31	The SPICE carbon isotope excursion in Siberia: a combined study of the upper Middle Cambrian-lowermost Ordovician Kulyumbe River section, northwestern Siberian Platform. <i>Geological Magazine</i> , 2008, 145, 609-622.	1.5	98
32	Carbon isotope stratigraphy of the Precambrian-Cambrian Sukharikha River section, northwestern Siberian platform. <i>Geological Magazine</i> , 2007, 144, 609-618.	1.5	71
33	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
34	Isotopic Compositions of Cometary Matter Returned by Stardust. <i>Science</i> , 2006, 314, 1724-1728.	12.6	343
35	Biological control of terrestrial silica cycling and export fluxes to watersheds. <i>Nature</i> , 2005, 433, 728-731.	27.8	393
36	$^{30}\text{Si}$ systematics in a granitic saprolite, Puerto Rico. <i>Geology</i> , 2005, 33, 817.	4.4	108

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37	Natural variations of $\delta^{30}\text{Si}$ ratios during progressive basalt weathering, Hawaiian Islands. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 4597-4610.	3.9	264
38	Isotopic composition of silicon measured by multicollector plasma source mass spectrometry in dry plasma mode. <i>Journal of Analytical Atomic Spectrometry</i> , 2003, 18, 213-218.	3.0	178
39	Halloysite as a kinetically controlled end product of arid-zone basalt weathering. <i>Chemical Geology</i> , 2003, 202, 461-478.	3.3	77
40	The impact of climate on the biogeochemical functioning of volcanic soils. <i>Chemical Geology</i> , 2003, 202, 195-223.	3.3	339
41	Palaeohydrodynamics of fluids in the Brent Group (Oseberg Field, Norwegian North Sea) from chemical and isotopic compositions of formation waters. <i>Applied Geochemistry</i> , 2001, 16, 609-632.	3.0	35
42	Multiple Episodes of Clay Alteration at the Precambrian/Paleozoic Unconformity, Appalachian Basin: Isotopic Evidence for Long-Distance and Local Fluid Migrations. <i>Clays and Clay Minerals</i> , 2000, 48, 474-493.	1.3	25