

Derek W G Sears

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5568661/publications.pdf>

Version: 2024-02-01

52
papers

1,675
citations

361413

20
h-index

276875

41
g-index

53
all docs

53
docs citations

53
times ranked

1388
citing authors

#	ARTICLE	IF	CITATIONS
1	Chelyabinsk Airburst, Damage Assessment, Meteorite Recovery, and Characterization. <i>Science</i> , 2013, 342, 1069-1073.	12.6	487
2	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
3	Chemical and physical studies of type 3 chondrites XII: The metamorphic history of CV chondrites and their components. <i>Meteoritics</i> , 1995, 30, 704-714.	1.4	93
4	The crystalline lunar spherules: Their formation and implications for the origin of meteoritic chondrules. <i>Meteoritics and Planetary Science</i> , 1998, 33, 13-29.	1.6	60
5	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	1.6	59
6	Metamorphism and aqueous alteration in low petrographic type ordinary chondrites. <i>Meteoritics</i> , 1995, 30, 169-181.	1.4	57
7	Sublimation rate of ice under simulated Mars conditions and the effect of layers of mock regolith JSC Mars-1. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	52
8	Evidence for low-temperature growth of fayalite and hedenbergite in MacAlpine Hills 88107, an ungrouped carbonaceous chondrite related to the CM-CO clan. <i>Meteoritics and Planetary Science</i> , 2000, 35, 1365-1386.	1.6	46
9	On laboratory simulation and the evaporation rate of water on Mars. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	46
10	On laboratory simulation and the temperature dependence of the evaporation rate of brine on Mars. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	45
11	The type three ordinary chondrites: A review. <i>Surveys in Geophysics</i> , 1987, 9, 43-97.	4.6	40
12	Laboratory simulation of the physical processes occurring on and near the surfaces of comet nuclei. <i>Meteoritics and Planetary Science</i> , 1999, 34, 497-525.	1.6	40
13	The thermometry of enstatite chondrites: A brief review and update. <i>Meteoritics and Planetary Science</i> , 1996, 31, 647-655.	1.6	33
14	The SariÅ§ek howardite fall in Turkey: Source crater of <sc>HED</sc> meteorites on Vesta and impact risk of Vestoids. <i>Meteoritics and Planetary Science</i> , 2019, 54, 953-1008.	1.6	30
15	Pyroxene structures, cathodoluminescence and the thermal history of the enstatite chondrites. <i>Meteoritics and Planetary Science</i> , 1996, 31, 87-96.	1.6	27
16	The oxygen isotopic properties of olivines in the Semarkona ordinary chondrite. <i>Meteoritics and Planetary Science</i> , 1998, 33, 1029-1032.	1.6	27
17	Nebular or parent body alteration of chondritic material: Neither or both?. <i>Meteoritics and Planetary Science</i> , 1998, 33, 1157-1167.	1.6	24
18	The natural thermoluminescence of meteorites: I. Twenty-three Antarctic meteorites of known ²⁶Al content. <i>Journal of Geophysical Research</i> , 1987, 92, E703.	3.3	23

#	ARTICLE	IF	CITATIONS
19	The natural thermoluminescence of meteorites 4. Ordinary chondrites at the Lewis Cliff Ice Field. <i>Journal of Geophysical Research</i> , 1992, 97, 4629-4647.	3.3	23
20	The non-trivial problem of meteorite pairing. <i>Meteoritics and Planetary Science</i> , 2000, 35, 393-417.	1.6	21
21	The impact and recovery of asteroid 2018 LA. <i>Meteoritics and Planetary Science</i> , 2021, 56, 844-893.	1.6	21
22	X-ray computed tomography imaging: A non-destructive technique. <i>Meteoritics and Planetary Science</i> , 2016, 51, 833-838.	1.6	20
23	Martian microfossils in lunar meteorites?. <i>Meteoritics and Planetary Science</i> , 1998, 33, 791-794.	1.6	17
24	Metamorphism of eucrite meteorites studied quantitatively using induced thermoluminescence. <i>Nature</i> , 1991, 349, 516-518.	27.8	16
25	Simulation Experiments with Cometary Analogous Material. <i>Earth, Moon and Planets</i> , 1998, 80, 369-411.	0.6	16
26	The natural thermoluminescence of meteorites: 5. Ordinary chondrites at the Allan Hills Ice Fields. <i>Journal of Geophysical Research</i> , 1993, 98, 1875-1888.	3.3	15
27	IRTF observations of S complex and other asteroids: Implications for surface compositions, the presence of clinopyroxenes, and their relationship to meteorites. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1789-1808.	1.6	15
28	The thermal and radiation exposure history of lunar meteorites. <i>Meteoritics and Planetary Science</i> , 1996, 31, 869-875.	1.6	14
29	The Vicinicia meteorite fall: A new unshocked (S1) weakly metamorphosed (3.2) chondrite. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1089-1111.	1.6	14
30	The metamorphic history of eucrites and eucrite-related meteorites and the case for late metamorphism. <i>Meteoritics and Planetary Science</i> , 1997, 32, 917-927.	1.6	13
31	An investigation of the presence and nature of phyllosilicates on the surfaces of C asteroids by an analysis of the continuum slopes in their near-infrared spectra. <i>Meteoritics and Planetary Science</i> , 2010, 45, 615-637.	1.6	13
32	A thermoluminescence study of experimentally shock-loaded oligoclase and bytownite. <i>Journal of Geophysical Research</i> , 1986, 91, E263.	3.3	12
33	The thermoluminescence sensitivity-Metamorphism relationship in ordinary chondrites: Experimental data on the mechanism and implications for terrestrial systems. <i>Geophysical Research Letters</i> , 1986, 13, 969-972.	4.0	12
34	Consortium study of the unusual H chondrite regolith breccia, Noblesville. <i>Meteoritics</i> , 1993, 28, 528-537.	1.4	10
35	Terrestrial age measurements using natural thermoluminescence of a drained zone under the fusion crust of Antarctic ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2000, 35, 869-874.	1.6	9
36	X-ray computed tomography of extraterrestrial rocks eradicates their natural radiation record and the information it contains. <i>Meteoritics and Planetary Science</i> , 2018, 53, 2624-2631.	1.6	9

#	ARTICLE	IF	CITATIONS
37	Induced Thermoluminescence and Cathodoluminescence Studies of Meteorites. ACS Symposium Series, 1990, , 190-222.	0.5	5
38	The fine-grained matrix of the Semarkona LL3.0 ordinary chondrite: An induced thermoluminescence study. Meteoritics and Planetary Science, 2009, 44, 643-652.	1.6	5
39	Induced thermoluminescence as a method for dating recent volcanism: Eastern Snake River Plain, Idaho, USA. Journal of Geophysical Research: Solid Earth, 2017, 122, 906-922.	3.4	4
40	The natural thermoluminescence of Antarctic meteorites and their terrestrial ages and orbits: A 2010 update. Meteoritics and Planetary Science, 2011, 46, 79-91.	1.6	3
41	Oral Histories in Meteoritics and Planetary Science—XIX: Klaus Keil. Meteoritics and Planetary Science, 2012, 47, 1891-1906.	1.6	3
42	The Sutter's Mill meteorite: Thermoluminescence data on thermal and metamorphic history. Meteoritics and Planetary Science, 2014, 49, 2047-2055.	1.6	2
43	Oral histories in meteoritics and planetary science—XVI: Donald D. Bogard. Meteoritics and Planetary Science, 2012, 47, 416-433.	1.6	1
44	Oral Histories in Meteoritics and Planetary Science — XVII: Joseph Goldstein. Meteoritics and Planetary Science, 2012, 47, 916-926.	1.6	1
45	Oral Histories in Meteoritics and Planetary Science—XXIII: Dieter Stöffler. Meteoritics and Planetary Science, 2013, 48, 1733-1751.	1.6	1
46	The thermoluminescence of meteorites: A brief 2010 perspective. Geochronometria, 2011, 38, 303-313.	0.8	0
47	Oral histories in meteoritics and planetary science: A commentary. Meteoritics and Planetary Science, 2012, 47, 414-415.	1.6	0
48	Oral Histories in Meteoritics and Planetary Science - XV: John Wood. Meteoritics and Planetary Science, 2012, 47, 903-915.	1.6	0
49	2012 Service Award of the Meteoritical Society for Ursula Marvin. Meteoritics and Planetary Science, 2012, 47, 1238-1240.	1.6	0
50	Oral Histories in Meteoritics and Planetary Science—XXI: Donald Burnett. Meteoritics and Planetary Science, 2013, 48, 1715-1732.	1.6	0
51	Oral histories in meteoritics and planetary science-XXIV: William K. Hartmann. Meteoritics and Planetary Science, 2014, 49, 1119-1138.	1.6	0
52	Oral histories in meteoritics and planetary science — XXII : John T. Wasson. Meteoritics and Planetary Science, 2014, 49, 706-721.	1.6	0