

Denton S Ebel

List of Publications by Year in descending order

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70
papers

4,077
citations

186265

28
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123424

61
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71
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71
docs citations

71
times ranked

2772
citing authors

#	ARTICLE	IF	CITATIONS
1	Mineralogy and Petrology of Comet 81P/Wild 2 Nucleus Samples. <i>Science</i> , 2006, 314, 1735-1739.	12.6	589
2	The Major-Element Composition of Mercury's Surface from MESSENGER X-ray Spectrometry. <i>Science</i> , 2011, 333, 1847-1850.	12.6	386
3	Condensation in dust-enriched systems. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 339-366.	3.9	376
4	Radioactive Elements on Mercury's Surface from MESSENGER: Implications for the Planet's Formation and Evolution. <i>Science</i> , 2011, 333, 1850-1852.	12.6	233
5	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
6	Elemental and isotopic fractionation of Type B calcium-, aluminum-rich inclusions: experiments, theoretical considerations, and constraints on their thermal evolution. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 521-540.	3.9	177
7	Major element chemical and isotopic compositions of refractory inclusions in C3 chondrites: the separate roles of condensation and evaporation. <i>Geochimica Et Cosmochimica Acta</i> , 2000, 64, 2879-2894.	3.9	131
8	Solar nebula magnetic fields recorded in the Semarkona meteorite. <i>Science</i> , 2014, 346, 1089-1092.	12.6	130
9	Chondrule size and related physical properties: A compilation and evaluation of current data across all meteorite groups. <i>Chemie Der Erde</i> , 2015, 75, 419-443.	2.0	128
10	Condensation of Rocky Material in Astrophysical Environments. , 2006, , 253-278.		126
11	Mercury's Weather-Beaten Surface: Understanding Mercury in the Context of Lunar and Asteroidal Space Weathering Studies. <i>Space Science Reviews</i> , 2014, 181, 121-214.	8.1	108
12	The origin of chondrules: Constraints from matrix composition and matrix-chondrule complementarity. <i>Earth and Planetary Science Letters</i> , 2015, 411, 11-19.	4.4	86
13	Abundance, major element composition and size of components and matrix in CV, CO and Acfer 094 chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 172, 322-356.	3.9	84
14	Meteorite 3 α synchrotron microtomography: Methods and applications. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1627-1646.	1.6	78
15	Petrology and origin of amoeboid olivine aggregates in CR chondrites. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1741-1753.	1.6	74
16	Questions, questions: Can the contradictions between the petrologic, isotopic, thermodynamic, and astrophysical constraints on chondrule formation be resolved?. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1157-1175.	1.6	68
17	Formation of refractory inclusions by evaporation of condensate precursors. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 145-161.	3.9	67
18	Shape, metal abundance, chemistry, and origin of chondrules in the Renazzo (CR) chondrite. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1725-1740.	1.6	67

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19	Chlorine on the surface of Mercury: MESSENGER gamma-ray measurements and implications for the planet's formation and evolution. <i>Icarus</i> , 2015, 257, 417-427.	2.5	66
20	Chondrule Formation and Protoplanetary Disk Heating by Current Sheets in Nonideal Magnetohydrodynamic Turbulence. <i>Astrophysical Journal</i> , 2004, 606, 532-541.	4.5	65
21	MINERAL PROCESSING BY SHORT CIRCUITS IN PROTOPLANETARY DISKS. <i>Astrophysical Journal Letters</i> , 2013, 767, L2.	8.3	65
22	Three-dimensional petrography of metal phases in equilibrated L chondrites—Effects of shock loading and dynamic compaction. <i>Earth and Planetary Science Letters</i> , 2008, 275, 172-180.	4.4	61
23	Petrology and oxygen isotope compositions of chondrules in E3 chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6556-6569.	3.9	60
24	Chondrules reveal large-scale outward transport of inner Solar System materials in the protoplanetary disk. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 23426-23435.	7.1	55
25	Pore size distribution in an uncompacted equilibrated ordinary chondrite. <i>Planetary and Space Science</i> , 2008, 56, 895-900.	1.7	44
26	Micromagnetic coercivity distributions and interactions in chondrules with implications for paleointensities of the early solar system. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
27	Cosmic rays, carbon dioxide, and climate. <i>Eos</i> , 2004, 85, 38.	0.1	40
28	Incompletely compacted equilibrated ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1743-1753.	1.6	36
29	Metal veins in the Kernouvé (H6 S1) chondrite: Evidence for pre- or syn-metamorphic shear deformation. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 116, 71-83.	3.9	36
30	Gibbs energy minimization in gas + liquid + solid systems. <i>Journal of Computational Chemistry</i> , 2000, 21, 247-256.	3.3	25
31	Origin of high-Ag fahlores from the Galena Mine, Wallace, Idaho, U.S.A.. <i>American Mineralogist</i> , 2005, 90, 1000-1007.	1.9	25
32	Protoplanetary dust porosity and FU Orionis outbursts: Solving the mystery of Earth's missing volatiles. <i>Icarus</i> , 2014, 237, 84-96.	2.5	23
33	Thermochemical stability of low-iron, manganese-enriched olivine in astrophysical environments. <i>Meteoritics and Planetary Science</i> , 2012, 47, 585-593.	1.6	21
34	Djerfisherite: nebular source of refractory potassium. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 923-934.	3.1	21
35	The Elusive Origin of Mercury. , 2018, , 497-515.		21
36	X-ray computed tomography imaging: A nondestructive technique. <i>Meteoritics and Planetary Science</i> , 2016, 51, 833-838.	1.6	20

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37	Effect of polychromatic X-ray microtomography imaging on the amino acid content of the Murchison CM chondrite. <i>Meteoritics and Planetary Science</i> , 2019, 54, 220-228.	1.6	19
38	Mineralogically zoned chondrules in ordinary chondrites as evidence for open system chondrule behaviour. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 249, 1-16.	3.9	18
39	Tennahedrite Thermochemistry and Metal Zoning. , 1987, , 701-731.		17
40	Three-dimensional textural and compositional analysis of particle tracks and fragmentation history in aerogel. <i>Meteoritics and Planetary Science</i> , 2009, 44, 1445-1463.	1.6	17
41	Microchondrules in three unequilibrated ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 235-260.	1.6	17
42	Petrology and oxygen isotopes of NWA 5492, a new metal-rich chondrite. <i>Meteoritics and Planetary Science</i> , 2012, 47, 363-373.	1.6	16
43	Experimental determination of the free energy of formation of freibergite fahlore. <i>Geochimica Et Cosmochimica Acta</i> , 1994, 58, 1237-1242.	3.9	14
44	Vapor-Melt Exchange. , 0, , 151-174.		10
45	Comparison of the Murchison CM2 and Allende CV3 chondrites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 77-95.	1.6	10
46	Micro-distribution of oxygen isotopes in unequilibrated enstatite chondrites. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 300, 279-295.	3.9	10
47	Semarkona: Lessons for chondrule and chondrite formation. <i>Icarus</i> , 2015, 245, 32-37.	2.5	9
48	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
49	Model evaporation of FeO-bearing liquids: Application to chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 3183-3193.	3.9	8
50	The Fountain Hills impact-modified CB chondrite and thermal history of the CB asteroid. <i>Meteoritics and Planetary Science</i> , 2009, 44, 201-210.	1.6	8
51	Metal-rich nodules in anomalous EL3 chondrite Northwest Africa (NWA) 8785. <i>Meteoritics and Planetary Science</i> , 2021, 56, 960-970.	1.6	8
52	Experimental investigation of condensation predictions for dust-enriched systems. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 142, 27-38.	3.9	7
53	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
54	Formation of chondrules and matrix in Kakangari chondrites. <i>Earth and Planetary Science Letters</i> , 2020, 542, 116286.	4.4	6

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55	Properties of original impactors estimated from three-dimensional analysis of whole Stardust tracks. <i>Meteoritics and Planetary Science</i> , 2012, 47, 634-648.	1.6	5
56	Petrology of the opaque assemblages in unequilibrated ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2021, 56, 311-330.	1.6	5
57	Simultaneous determination of mass-dependent Mg isotopic variations and radiogenic ²⁶ Mg by laser ablation-MC-ICP-MS and implications for the formation of chondrules. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 299, 163-183.	3.9	5
58	Laser scanning confocal microscopy of comet material in aerogel. , 2010, 6, 515-523.		4
59	Dust concentration and chondrule formation. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1507-1515.	1.6	4
60	Reply [to "Cosmic rays, carbon dioxide, and climate"]. <i>Eos</i> , 2004, 85, 511-511.	0.1	3
61	Trace element partitioning between CAI-type melts and grossite, melilite, hibonite, and olivine. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 267, 124-146.	3.9	3
62	Reducing Supervision of Quantitative Image Analysis of Meteorite Samples. <i>Microscopy and Microanalysis</i> , 2020, 26, 63-75.	0.4	3
63	Effect of polychromatic x-ray microtomography imaging on the amino acid content of the Murchison CM chondrite. <i>Meteoritics and Planetary Science</i> , 2018, 54, 220-228.	1.6	3
64	Best practices for the use of meteorite names in publications. <i>Meteoritics and Planetary Science</i> , 2019, 54, 1397-1400.	1.6	2
65	Size-frequency distributions and physical properties of chondrules from x-ray computed microtomography and digital data extraction. <i>Microscopy Research and Technique</i> , 2022, 85, 1814-1824.	2.2	2
66	Imaging Samples in Silica Aerogel Using an Experimental Point Spread Function. <i>Microscopy and Microanalysis</i> , 2015, 21, 172-178.	0.4	1
67	Geology of Central Park, Manhattan, New York City, USA: New geochemical insights. , 2021, , 21-34.		1
68	Image Analysis of 2D X-ray Intensity Maps: Element Abundances, Mineralogy, and Modal Analysis of Meteorites. <i>Microscopy and Microanalysis</i> , 2014, 20, 752-753.	0.4	0
69	Maximizing Chemical and Textural Data with Minimal Sample Destruction: Computed Tomography, Wire Saws, and Electron Beams; Oh, my™. <i>Microscopy and Microanalysis</i> , 2014, 20, 1688-1689.	0.4	0
70	Acceptance of the Distinguished Public Service Medal of the Mineralogical Society of America for 2021. <i>American Mineralogist</i> , 2022, 107, 990-990.	1.9	0