Marc D Fries

List of Publications by Year
in descending order

50 papers	3,439 citations	218677 26 h-index	206112 48 g-index
50 all docs	50 docs citations	50 times ranked	3483 citing authors

#	Article	IF	Citations
1	Comet 81P/Wild 2 Under a Microscope. Science, 2006, 314, 1711-1716.	12.6	848
2	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. Science, 2006, 314, 1720-1724.	12.6	519
3	Radar-Enabled Recovery of the Sutterâ€™s Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. Science, 2012, 338, 1583-1587.	12.6	191
4	A Reduced Organic Carbon Component in Martian Basalts. Science, 2012, 337, 212-215.	12.6	182
5	Infrared Spectroscopy of Comet 81P/Wild 2 Samples Returned by Stardust. Science, 2006, 314, 1728-1731.	12.6	163
6	Nanostructured Ceramics for Biomedical Implants. Journal of Nanoscience and Nanotechnology, 2002, 2, 293-312.	0.9	135
7	Detection of structurally bound hydroxyl in fluorapatite from Apollo Mare basalt 15058,128 using TOF-SIMS. American Mineralogist, 2010, 95, 1141-1150.	1.9	116
8	Hydrothermal jarosite and hematite in a pyroxene-hosted melt inclusion in martian meteorite Miller Range (MIL) 03346: Implications for magmatic-hydrothermal fluids on Mars. Geochimica Et Cosmochimica Acta, 2009, 73, 4907-4917.	3.9	102
9	The provenance, formation, and implications of reduced carbon phases in Martian meteorites. Meteoritics and Planetary Science, 2016, 51, 2203-2225.	1.6	80
10	Portales Valley: Petrology of a metallic-melt meteorite breccia. Meteoritics and Planetary Science, 2005, 40, 261-295.	1.6	75
11	Mineralogy and petrography of the Almahata Sitta ureilite. Meteoritics and Planetary Science, 2010, 45, 1618-1637.	1.6	74
12	Graphite in the martian meteorite Allan Hills 84001. American Mineralogist, 2012, 97, 1256-1259.	1.9	68
13	Organic matter in extraterrestrial water-bearing salt crystals. Science Advances, 2018, 4, eaao3521.	10.3	64
14	Fall, recovery, and characterization of the Novato L6 chondrite breccia. Meteoritics and Planetary Science, 2014, 49, 1388-1425.	1.6	59
15	The fall of the Grimsby meteoriteâ€”I: Fireball dynamics and orbit from radar, video, and infrasound records. Meteoritics and Planetary Science, 2011, 46, 339-363.	1.6	57
16	Mineralogy and petrography of C asteroid regolith: The Sutter's Mill <scp>CM</scp> meteorite. Meteoritics and Planetary Science, 2014, 49, 1997-2016.	1.6	57
17	Ancient graphite in the Eoarchean quartzâ€“pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. Geochimica Et Cosmochimica Acta, 2010, 74, 5862-5883.	3.9	55
18	Properties of nanocrystalline diamond thin films grown by MPCVD for biomedical implant purposes. Diamond and Related Materials, 2004, 13, 1740-1743.	3.9	43

#	Article	IF	Citations
19	Graphite in an Apollo 17 Impact Melt Breccia. Science, 2010, 329, 51-51.	12.6	42
20	HEPES-Stabilized Encapsulation ofSalmonellatyphimurium. Langmuir, 2007, 23, 1365-1374.	3.5	40
21	Graphite Whiskers in CV3 Meteorites. Science, 2008, 320, 91-93.	12.6	40
22	Microâ€Raman spectroscopic study of fineâ€grained, shockâ€metamorphosed rock fragments from the Australasian microtektite layer. Meteoritics and Planetary Science, 2008, 43, 1487-1496.	1.6	33
23	MicroRaman spectroscopy of diamond and graphite in Almahata Sitta and comparison with other ureilites. Meteoritics and Planetary Science, 2011, 46, 364-378.	1.6	32
24	The first samples from Almahata Sitta showing contacts between ureilitic and chondritic lithologies: Implications for the structure and composition of asteroid 2008 <scp>TC</scp>₃. Meteoritics and Planetary Science, 2019, 54, 2769-2813.	1.6	32
25	Raman Spectroscopy and Confocal Raman Imaging in Mineralogy and Petrography. Springer Series in Optical Sciences, 2010, , 111-135.	0.7	31
26	Impact shock origin of diamonds in ureilite meteorites. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 25310-25318.	7.1	28
27	Nanostructured diamond film deposition on curved surfaces of metallic temporomandibular joint implant. Journal Physics D: Applied Physics, 2002, 35, L105-L107.	2.8	26
28	A novel organic-rich meteoritic clast from the outer solar system. Scientific Reports, 2019, 9, 3169.	3.3	25
29	A cometary origin for martian atmospheric methane. Geochemical Perspectives Letters, 2016, 2, 10-23.	5.0	25
30	Experimental impact features in Stardust aerogel: How track morphology reflects particle structure, composition, and density. Meteoritics and Planetary Science, 2012, 47, 737-762.	1.6	22
31	The Creston, California, meteorite fall and the origin of L chondrites. Meteoritics and Planetary Science, 2019, 54, 699-720.	1.6	21
32	Calibration of Raman wavenumber in large Raman images using a mercuryâ€argon lamp. Journal of Raman Spectroscopy, 2020, 51, 1172-1185.	2.5	18
33	Calibration of the SHERLOC Deep Ultraviolet Fluorescenceâ€“Raman Spectrometer on the Perseverance Rover. Applied Spectroscopy, 2021, 75, 000370282110133.	2.2	18
34	Doppler weather radar as a meteorite recovery tool. Meteoritics and Planetary Science, 2010, 45, 1476-1487.	1.6	15
35	The polymict carbonaceous breccia Aguas Zarcas: A potential analog to samples being returned by the OSIRISâ€REx and Hayabusa2 missions. Meteoritics and Planetary Science, 2021, 56, 277-310.	1.6	14
36	Discreditation of bobdownsite and the establishment of criteria for the identification of minerals with essential monofluorophosphate (PO3F2â€“). American Mineralogist, 2018, 103, 1319-1328.	1.9	13

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37	Evaluation of cell lysis procedures and use of a micro fluidic system for an automated DNA-based cell identification in interplanetary missions. Planetary and Space Science, 2006, 54, 1600-1611.	1.7	12
38	Detection and rapid recovery of the Sutter's Mill meteorite fall as a model for future recoveries worldwide. Meteoritics and Planetary Science, 2014, 49, 1989-1996.	1.6	10
39	Orbit and origin of the <scp>LL</scp>7 chondrite Dishchii'bikoh (Arizona). Meteoritics and Planetary Science, 2020, 55, 535-557.	1.6	10
40	Raman spectroscopy provides insight into carbonate rock fabric based on calcite and dolomite crystal orientation. Journal of Raman Spectroscopy, 2021, 52, 1155-1166.	2.5	8
41	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas â€“ Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. Geochimica Et Cosmochimica Acta, 2022, 334, 155-186.	3.9	7
42	The Strata-1 experiment on small body regolith segregation. Acta Astronautica, 2018, 142, 87-94.	3.2	6
43	Calibration of Raman bandwidth in large Raman images using a mercuryâ€“argon lamp. Journal of Raman Spectroscopy, 2021, 52, 709-722.	2.5	5
44	The fall, recovery, classification, and initial characterization of the Hamburg, Michigan H4 chondrite. Meteoritics and Planetary Science, 2020, 55, 2341-2359.	1.6	4
45	Compositional and spectroscopic investigation of three ungrouped carbonaceous chondrites. Meteoritics and Planetary Science, 2022, 57, 1665-1687.	1.6	4
46	A Cathodoluminescene (and Raman) Imaging and Spectroscopic Study of Ancient Polycrystalline Diamond. Microscopy and Microanalysis, 2006, 12, 1518-1519.	0.4	3
47	AMSNEXRAD-Automated detection of meteorite strewnfields in doppler weather radar. Planetary and Space Science, 2017, 143, 199-202.	1.7	3
48	Bolide fragment detection in Doppler weather radar data using artificial intelligence/machine learning. Meteoritics and Planetary Science, 2021, 56, 1585-1596.	1.6	2
49	Calibration of the temporal drift in absolute and relative Raman intensities in large Raman images using a mercuryâ€“argon lamp. Journal of Raman Spectroscopy, 0, , .	2.5	1
50	Dislocation generation in experimentally shocked olivine crystals. Journal of Geophysical Research E: Planets, 0, , .	3.6	1