

Marc D Fries

List of Publications by Year in descending order

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50
papers

3,439
citations

218677

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docs citations

50
times ranked

3483
citing authors

#	ARTICLE	IF	CITATIONS
1	Compositional and spectroscopic investigation of three ungrouped carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2022, 57, 1665-1687.	1.6	4
2	Heterogeneous nature of the carbonaceous chondrite breccia Aguas Zarcas â€“ Cosmochemical characterization and origin of new carbonaceous chondrite lithologies. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 334, 155-186.	3.9	7
3	Calibration of Raman bandwidth in large Raman images using a mercuryâ€“argon lamp. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 709-722.	2.5	5
4	The polymict carbonaceous breccia Aguas Zarcas: A potential analog to samples being returned by the OSIRISâ€“REx and Hayabusa2 missions. <i>Meteoritics and Planetary Science</i> , 2021, 56, 277-310.	1.6	14
5	Raman spectroscopy provides insight into carbonate rock fabric based on calcite and dolomite crystal orientation. <i>Journal of Raman Spectroscopy</i> , 2021, 52, 1155-1166.	2.5	8
6	Calibration of the SHERLOC Deep Ultraviolet Fluorescenceâ€“Raman Spectrometer on the <i>Perseverance</i> Rover. <i>Applied Spectroscopy</i> , 2021, 75, 000370282110133.	2.2	18
7	Bolide fragment detection in Doppler weather radar data using artificial intelligence/machine learning. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1585-1596.	1.6	2
8	Impact shock origin of diamonds in ureilite meteorites. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 25310-25318.	7.1	28
9	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
10	Orbit and origin of the <i>LL7</i> chondrite Dishchii'bikoh (Arizona). <i>Meteoritics and Planetary Science</i> , 2020, 55, 535-557.	1.6	10
11	Calibration of Raman wavenumber in large Raman images using a mercuryâ€“argon lamp. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 1172-1185.	2.5	18
12	The first samples from Almahata Sitta showing contacts between ureilitic and chondritic lithologies: Implications for the structure and composition of asteroid 2008 <i>TC3</i> . <i>Meteoritics and Planetary Science</i> , 2019, 54, 2769-2813.	1.6	32
13	The Creston, California, meteorite fall and the origin of L chondrites. <i>Meteoritics and Planetary Science</i> , 2019, 54, 699-720.	1.6	21
14	A novel organic-rich meteoritic clast from the outer solar system. <i>Scientific Reports</i> , 2019, 9, 3169.	3.3	25
15	Organic matter in extraterrestrial water-bearing salt crystals. <i>Science Advances</i> , 2018, 4, eaao3521.	10.3	64
16	The Strata-1 experiment on small body regolith segregation. <i>Acta Astronautica</i> , 2018, 142, 87-94.	3.2	6
17	Discreditation of bobdownsite and the establishment of criteria for the identification of minerals with essential monofluorophosphate (PO ₃ F ₂ â€“). <i>American Mineralogist</i> , 2018, 103, 1319-1328.	1.9	13
18	AMSNEXRAD-Automated detection of meteorite strewnfields in doppler weather radar. <i>Planetary and Space Science</i> , 2017, 143, 199-202.	1.7	3

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19	The provenance, formation, and implications of reduced carbon phases in Martian meteorites. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2203-2225.	1.6	80
20	A cometary origin for martian atmospheric methane. <i>Geochemical Perspectives Letters</i> , 2016, 2, 10-23.	5.0	25
21	Detection and rapid recovery of the Sutter's Mill meteorite fall as a model for future recoveries worldwide. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1989-1996.	1.6	10
22	Mineralogy and petrography of C asteroid regolith: The Sutter's Mill <scp>CM</scp> meteorite. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1997-2016.	1.6	57
23	Fall, recovery, and characterization of the Novato L6 chondrite breccia. <i>Meteoritics and Planetary Science</i> , 2014, 49, 1388-1425.	1.6	59
24	Graphite in the martian meteorite Allan Hills 84001. <i>American Mineralogist</i> , 2012, 97, 1256-1259.	1.9	68
25	Radar-Enabled Recovery of the Sutter's Mill Meteorite, a Carbonaceous Chondrite Regolith Breccia. <i>Science</i> , 2012, 338, 1583-1587.	12.6	191
26	A Reduced Organic Carbon Component in Martian Basalts. <i>Science</i> , 2012, 337, 212-215.	12.6	182
27	Experimental impact features in Stardust aerogel: How track morphology reflects particle structure, composition, and density. <i>Meteoritics and Planetary Science</i> , 2012, 47, 737-762.	1.6	22
28	The fall of the Grimsby meteorite: Fireball dynamics and orbit from radar, video, and infrasound records. <i>Meteoritics and Planetary Science</i> , 2011, 46, 339-363.	1.6	57
29	MicroRaman spectroscopy of diamond and graphite in Almahata Sitta and comparison with other ureilites. <i>Meteoritics and Planetary Science</i> , 2011, 46, 364-378.	1.6	32
30	Graphite in an Apollo 17 Impact Melt Breccia. <i>Science</i> , 2010, 329, 51-51.	12.6	42
31	Detection of structurally bound hydroxyl in fluorapatite from Apollo Mare basalt 15058,128 using TOF-SIMS. <i>American Mineralogist</i> , 2010, 95, 1141-1150.	1.9	116
32	Ancient graphite in the Eoarchean quartz-pyroxene rocks from Akilia in southern West Greenland I: Petrographic and spectroscopic characterization. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5862-5883.	3.9	55
33	Doppler weather radar as a meteorite recovery tool. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1476-1487.	1.6	15
34	Mineralogy and petrography of the Almahata Sitta ureilite. <i>Meteoritics and Planetary Science</i> , 2010, 45, 1618-1637.	1.6	74
35	Raman Spectroscopy and Confocal Raman Imaging in Mineralogy and Petrography. <i>Springer Series in Optical Sciences</i> , 2010, , 111-135.	0.7	31
36	Hydrothermal jarosite and hematite in a pyroxene-hosted melt inclusion in martian meteorite Miller Range (MIL) 03346: Implications for magmatic-hydrothermal fluids on Mars. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 4907-4917.	3.9	102

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37	Micro-Raman spectroscopic study of fine-grained, shock-metamorphosed rock fragments from the Australasian microtektite layer. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1487-1496.	1.6	33
38	Graphite Whiskers in CV3 Meteorites. <i>Science</i> , 2008, 320, 91-93.	12.6	40
39	HEPES-Stabilized Encapsulation of <i>Salmonella typhimurium</i> . <i>Langmuir</i> , 2007, 23, 1365-1374.	3.5	40
40	Comet 81P/Wild 2 Under a Microscope. <i>Science</i> , 2006, 314, 1711-1716.	12.6	848
41	Infrared Spectroscopy of Comet 81P/Wild 2 Samples Returned by Stardust. <i>Science</i> , 2006, 314, 1728-1731.	12.6	163
42	Organics Captured from Comet 81P/Wild 2 by the Stardust Spacecraft. <i>Science</i> , 2006, 314, 1720-1724.	12.6	519
43	A Cathodoluminescence (and Raman) Imaging and Spectroscopic Study of Ancient Polycrystalline Diamond. <i>Microscopy and Microanalysis</i> , 2006, 12, 1518-1519.	0.4	3
44	Evaluation of cell lysis procedures and use of a micro fluidic system for an automated DNA-based cell identification in interplanetary missions. <i>Planetary and Space Science</i> , 2006, 54, 1600-1611.	1.7	12
45	Portales Valley: Petrology of a metallic-melt meteorite breccia. <i>Meteoritics and Planetary Science</i> , 2005, 40, 261-295.	1.6	75
46	Properties of nanocrystalline diamond thin films grown by MPCVD for biomedical implant purposes. <i>Diamond and Related Materials</i> , 2004, 13, 1740-1743.	3.9	43
47	Nanostructured diamond film deposition on curved surfaces of metallic temporomandibular joint implant. <i>Journal Physics D: Applied Physics</i> , 2002, 35, L105-L107.	2.8	26
48	Nanostructured Ceramics for Biomedical Implants. <i>Journal of Nanoscience and Nanotechnology</i> , 2002, 2, 293-312.	0.9	135
49	Calibration of the temporal drift in absolute and relative Raman intensities in large Raman images using a mercury-argon lamp. <i>Journal of Raman Spectroscopy</i> , 0, , .	2.5	1
50	Dislocation generation in experimentally shocked olivine crystals. <i>Journal of Geophysical Research E: Planets</i> , 0, , .	3.6	1