

Gordon Osinski

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3273004/publications.pdf>

Version: 2024-02-01

196
papers

5,313
citations

81839

39
h-index

114418

63
g-index

212
all docs

212
docs citations

212
times ranked

3420
citing authors

#	ARTICLE	IF	CITATIONS
1	A low-temperature, meteoric water-dominated origin for smectitic clay minerals in the Chicxulub impact crater upper peak ring, as inferred from their oxygen and hydrogen isotope compositions. <i>Chemical Geology</i> , 2022, 588, 120639.	1.4	5
2	Hargraves Crater, Mars: Insights into the internal structure of layered ejecta deposits. <i>Icarus</i> , 2022, 375, 114854.	1.1	2
3	Hot rocks: Constraining the thermal conditions of the Mistastin Lake impact melt deposits using zircon grain microstructures. <i>Earth and Planetary Science Letters</i> , 2022, 584, 117523.	1.8	7
4	Constraining the formation of paleolake inlet valleys across crater rims. <i>Icarus</i> , 2022, 378, 114945.	1.1	5
5	Impactite dykes in impact crater central uplifts: Insights from Negril crater, Mars. <i>Icarus</i> , 2021, 355, 114153.	1.1	0
6	The Mesoproterozoic Stac Fada Member, NW Scotland: an impact origin confirmed but refined. <i>Journal of the Geological Society</i> , 2021, 178, .	0.9	1
7	Impact Craters on Earth. <i>Encyclopedia of Earth Sciences Series</i> , 2021, , 769-775.	0.1	0
8	Origin of the degassing pipes at the Ries impact structure and implications for impact-induced alteration on Mars and other planetary bodies. <i>Meteoritics and Planetary Science</i> , 2021, 56, 404-422.	0.7	4
9	Ocean resurge-induced impact melt dynamics on the peak-ring of the Chicxulub impact structure, Mexico. <i>International Journal of Earth Sciences</i> , 2021, 110, 2619-2636.	0.9	5
10	Morphologic mapping and interpretation of ejecta deposits from Tsiolkovskiy crater. <i>Meteoritics and Planetary Science</i> , 2021, 56, 767.	0.7	4
11	Shaping of the Present-Day Deep Biosphere at Chicxulub by the Impact Catastrophe That Ended the Cretaceous. <i>Frontiers in Microbiology</i> , 2021, 12, 668240.	1.5	8
12	Raman study of shock effects in lunar anorthite from the Apollo missions. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1633-1651.	0.7	5
13	Detailed Morphologic Mapping and Traverse Planning for a Rover-based Lunar Sample Return Mission to Schrödinger Basin. <i>Planetary Science Journal</i> , 2021, 2, 167.	1.5	1
14	Vermicular Ridge Features on Dundas Harbour, Devon Island, Nunavut. <i>Geomorphology</i> , 2021, 395, 107947.	1.1	2
15	Decameter-scale rimmed depressions in Utopia Planitia: Insight into the glacial and periglacial history of Mars. <i>Planetary and Space Science</i> , 2021, 204, 105253.	0.9	3
16	Early diagenesis at and below Vera Rubin ridge, Gale crater, Mars. <i>Meteoritics and Planetary Science</i> , 2021, 56, 1905-1932.	0.7	7
17	Quadruple sulfur isotope biosignatures from terrestrial Mars analogue systems. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 308, 157-172.	1.6	8
18	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. <i>Planetary Science Journal</i> , 2021, 2, 211.	1.5	6

#	ARTICLE	IF	CITATIONS
19	Geochemical and petrographic variations in pseudotachylyte along the Outer Hebrides Fault Zone, Scotland. <i>Journal of the Geological Society</i> , 2020, 177, 50-65.	0.9	3
20	Explosive interaction of impact melt and seawater following the Chicxulub impact event. <i>Geology</i> , 2020, 48, 108-112.	2.0	25
21	The Upper Contact Unit of the Sudbury Igneous Complex in the Garson region: Constraints on the depth of origin of a peak ring at the Sudbury impact structure. <i>Meteoritics and Planetary Science</i> , 2020, 55, .	0.7	3
22	Compositional Heterogeneity of Impact Melt Rocks at the Houghton Impact Structure, Canada: Implications for Planetary Processes and Remote Sensing. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006218.	1.5	6
23	Hydrothermal alteration associated with the Chicxulub impact crater upper peak-ring breccias. <i>Earth and Planetary Science Letters</i> , 2020, 547, 116425.	1.8	21
24	Valley formation on early Mars by subglacial and fluvial erosion. <i>Nature Geoscience</i> , 2020, 13, 663-668.	5.4	49
25	The Role of Meteorite Impacts in the Origin of Life. <i>Astrobiology</i> , 2020, 20, 1121-1149.	1.5	63
26	Preferred orientation distribution of shock-induced planar microstructures in quartz and feldspar. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1082-1092.	0.7	8
27	Probing the hydrothermal system of the Chicxulub impact crater. <i>Science Advances</i> , 2020, 6, eaaz3053.	4.7	69
28	Raman study of shock features in plagioclase feldspar from the Mistastin Lake impact structure, Canada. <i>Meteoritics and Planetary Science</i> , 2020, 55, 1471-1490.	0.7	7
29	Through the impact glass: Insight into the evolution of melt at the Mistastin Lake impact structure. <i>Meteoritics and Planetary Science</i> , 2020, 55, 591-621.	0.7	1
30	Origin and formation of Metabreccia in the Parkin Offset Dike, Sudbury impact structure, Canada. <i>Canadian Journal of Earth Sciences</i> , 2020, 57, 1324-1336.	0.6	1
31	Geophysical signature of the Tunnunik impact structure, Northwest Territories, Canada. <i>Meteoritics and Planetary Science</i> , 2020, 55, 480-495.	0.7	2
32	A Modified Semi-Empirical Radar Scattering Model for Weathered Rock Surfaces. <i>Canadian Journal of Remote Sensing</i> , 2020, 46, 1-14.	1.1	2
33	⁴⁰ Ar/ ³⁹ Ar systematics of melt lithologies and target rocks from the Gow Lake impact structure, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 274, 317-332.	1.6	9
34	Microbial Life in Impact Craters. <i>Current Issues in Molecular Biology</i> , 2020, 38, 75-102.	1.0	1
35	Impact Craters on Earth. <i>Encyclopedia of Earth Sciences Series</i> , 2020, , 1-8.	0.1	0
36	Transitional impact craters on the Moon: Insight into the effect of target lithology on the impact cratering process. <i>Meteoritics and Planetary Science</i> , 2019, 54, 573-591.	0.7	16

#	ARTICLE	IF	CITATIONS
37	The CanMars Mars Sample Return analogue mission. <i>Planetary and Space Science</i> , 2019, 166, 110-130.	0.9	25
38	Coupled Si and O isotope measurements of meteoritic material by laser fluorination isotope ratio mass spectrometry. <i>Journal of Mass Spectrometry</i> , 2019, 54, 667-675.	0.7	2
39	Paleomagnetism and rock magnetism of East and West Clearwater Lake impact structures. <i>Canadian Journal of Earth Sciences</i> , 2019, 56, 983-993.	0.6	2
40	Impact-Induced Porosity and Microfracturing at the Chicxulub Impact Structure. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1960-1978.	1.5	23
41	A Polarimetric SAR and Multispectral Remote Sensing Approach for Mapping Salt Diapirs: Axel Heiberg Island, NU, Canada. <i>Canadian Journal of Remote Sensing</i> , 2019, 45, 54-72.	1.1	0
42	Field and laboratory validation of remote rover operations Science Team findings: The CanMars Mars Sample Return analogue mission. <i>Planetary and Space Science</i> , 2019, 176, 104682.	0.9	7
43	The first day of the Cenozoic. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 19342-19351.	3.3	100
44	The use of GIS, mapping, and immersive technologies in the CanMars Mars Sample Return analogue mission; advantages for science interpretation and operational decision-making. <i>Planetary and Space Science</i> , 2019, 168, 15-26.	0.9	8
45	An orbit-based remote sensing geological assessment of the CanMars Mars Sample Return Analogue Deployment (MSRAD) landing site situated in the Henry Mountains Basin, near Hanksville, Utah. <i>Planetary and Space Science</i> , 2019, 173, 14-34.	0.9	4
46	Documentation processes during the CanMars mission: Observations and recommendations for future application in analogue and planetary missions. <i>Planetary and Space Science</i> , 2019, 174, 14-20.	0.9	0
47	CanMars mission Science Team operational results: Implications for operations and the sample selection process for Mars Sample Return (MSR). <i>Planetary and Space Science</i> , 2019, 172, 43-56.	0.9	12
48	Natural Analogue Constraints on Europa's Non-Ice Surface Material. <i>Geophysical Research Letters</i> , 2019, 46, 5759-5767.	1.5	9
49	Utility and applications of rover science autonomy capabilities: Outcomes from a high-fidelity analogue mission simulation. <i>Planetary and Space Science</i> , 2019, 170, 52-60.	0.9	3
50	Stress-Strain Evolution During Peak-Ring Formation: A Case Study of the Chicxulub Impact Structure. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 396-417.	1.5	30
51	Pantasma: Evidence for a Pleistocene circa 14-km diameter impact crater in Nicaragua. <i>Meteoritics and Planetary Science</i> , 2019, 54, 880-901.	0.7	13
52	Impact Earth: A New Resource for Outreach, Teaching, and Research. <i>Elements</i> , 2019, 15, 70-71.	0.5	7
53	Polarimetric SAR Signatures for Characterizing Geological Units in the Canadian Arctic. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 4406-4414.	2.3	3
54	TEMMI, a Three-dimensional Exploration Multispectral Microscope Imager for planetary exploration missions. <i>Planetary and Space Science</i> , 2019, 165, 57-74.	0.9	3

#	ARTICLE	IF	CITATIONS
55	Geomorphology of Gullies at Thomas Lee Inlet, Devon Island, Canadian High Arctic. Permafrost and Periglacial Processes, 2019, 30, 19-34.	1.5	7
56	A Paleozoic age for the Tunnunik impact structure. Meteoritics and Planetary Science, 2019, 54, 740-751.	0.7	3
57	Formation of Complex Craters in Layered Targets With Material Anisotropy. Journal of Geophysical Research E: Planets, 2019, 124, 349-373.	1.5	6
58	Petrography and geochemistry of lunar meteorites Dhofar 1673, 1983, and 1984. Meteoritics and Planetary Science, 2019, 54, 300-320.	0.7	5
59	Thermal inertia variations from gully and mass-wasting activity in Gasa crater, Mars. Geological Society Special Publication, 2019, 467, 199-210.	0.8	2
60	The oxygen isotope compositions of olivine in main group (<scp>MG</scp>) pallasites: New measurements by adopting an improved laser fluorination approach. Meteoritics and Planetary Science, 2018, 53, 1223-1237.	0.7	6
61	Igneous rocks formed by hypervelocity impact. Journal of Volcanology and Geothermal Research, 2018, 353, 25-54.	0.8	52
62	The Pele Offset Dykes, Sudbury impact structure, Canada. Canadian Journal of Earth Sciences, 2018, 55, 230-240.	0.6	8
63	Learning Spatialâ€“Spectral Features for Hyperspectral Image Classification. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5138-5147.	2.7	12
64	A depth versus diameter scaling relationship for the best-preserved melt-bearing complex craters on Mars. Icarus, 2018, 299, 68-83.	1.1	21
65	Diversity of basaltic lunar volcanism associated with buried impact structures: Implications for intrusive and extrusive events. Icarus, 2018, 307, 216-234.	1.1	13
66	New morphological mapping and interpretation of ejecta deposits from Orientale Basin on the Moon. Icarus, 2018, 299, 253-271.	1.1	20
67	Remote Predictive Mapping of the Tunnunik Impact Structure in the Canadian Arctic using Multispectral and Polarimetric SAR Data Fusion. Canadian Journal of Remote Sensing, 2018, 44, 513-531.	1.1	5
68	Subglacial drainage patterns of Devon Island, Canada: detailed comparison of rivers and subglacial meltwater channels. Cryosphere, 2018, 12, 1461-1478.	1.5	16
69	Hyperspectral Image Classification With Stacking Spectral Patches and Convolutional Neural Networks. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5975-5984.	2.7	21
70	Formation of large-scale impact melt dikes: A case study of the Foy Offset Dike at the Sudbury impact structure, Canada. Earth and Planetary Science Letters, 2018, 495, 224-233.	1.8	10
71	Impactites of the Mistastin Lake impact structure: Insights into impact ejecta emplacement. Meteoritics and Planetary Science, 2018, 53, 2492-2518.	0.7	16
72	Paleo-Periglacial and â€œIce-Richâ€•Complexes in Utopia Planitia. , 2018, , 209-237.		1

#	ARTICLE	IF	CITATIONS
73	Ejecta deposits of Bakhuisen Crater, Mars. <i>Icarus</i> , 2018, 314, 175-194.	1.1	7
74	Complex crater formation: Insights from combining observations of shock pressure distribution with numerical models at the West Clearwater Lake impact structure. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1330-1350.	0.7	17
75	Effect of impact velocity and acoustic fluidization on the simple-to-complex transition of lunar craters. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 800-821.	1.5	23
76	Evidence for a spatially extensive hydrothermal system at the Ries impact structure, Germany. <i>Meteoritics and Planetary Science</i> , 2017, 52, 351-371.	0.7	11
77	Fitting the curve in Excel®: Systematic curve fitting of laboratory and remotely sensed planetary spectra. <i>Computers and Geosciences</i> , 2017, 100, 103-114.	2.0	12
78	A heterogeneous lunar interior for hydrogen isotopes as revealed by the lunar highlands samples. <i>Earth and Planetary Science Letters</i> , 2017, 473, 14-23.	1.8	36
79	The PanCam Instrument for the ExoMars Rover. <i>Astrobiology</i> , 2017, 17, 511-541.	1.5	55
80	Unsupervised feature learning for autonomous rock image classification. <i>Computers and Geosciences</i> , 2017, 106, 10-17.	2.0	37
81	Chemical variations and genetic relationships between the Hess and Foy offset dikes at the Sudbury impact structure. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2647-2671.	0.7	7
82	Hydrothermally enhanced magnetization at the center of the Haughton impact structure?. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2147-2165.	0.7	10
83	Geochemical and oxygen isotope perspective of a new R chondrite Dhofar 1671: Affinity with ordinary chondrites. <i>Meteoritics and Planetary Science</i> , 2017, 52, 1991-2003.	0.7	3
84	Chemical and oxygen isotopic properties of ordinary chondrites (H5, L6) from Oman: Signs of isotopic equilibrium during thermal metamorphism. <i>Meteoritics and Planetary Science</i> , 2017, 52, 2097-2112.	0.7	6
85	Terrestrial analogues for lunar impact melt flows. <i>Icarus</i> , 2017, 281, 73-89.	1.1	25
86	The central uplift of Elorza Crater: Insights into its geology and possible relationships to the Valles Marineris and Tharsis regions. <i>Icarus</i> , 2017, 284, 284-304.	1.1	5
87	Biological Characterization of Microenvironments in a Hypersaline Cold Spring Mars Analog. <i>Frontiers in Microbiology</i> , 2017, 8, 2527.	1.5	7
88	A multifrequency SAR study of the Haughton impact structure, Arctic Canada. , 2017, , .		0
89	Insights into complex layered ejecta emplacement and subsurface stratigraphy in Chryse Planitia, Mars, through an analysis of THEMIS brightness temperature data. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 986-1015.	1.5	9
90	Shatter cones: (Mis)understood?. <i>Science Advances</i> , 2016, 2, e1600616.	4.7	32

#	ARTICLE	IF	CITATIONS
91	Hyperspectral mapping of alteration assemblages within a hydrothermal vug at the Houghton impact structure, Canada. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2274-2292.	0.7	3
92	SHARAD detection and characterization of subsurface water ice deposits in Utopia Planitia, Mars. <i>Geophysical Research Letters</i> , 2016, 43, 9484-9491.	1.5	110
93	Reconstructing the Geochemical Signature of Sudbury Breccia, Ontario, Canada: Implications for Its Formation and Trace Metal Content. <i>Economic Geology</i> , 2016, 111, 1705-1729.	1.8	15
94	The "suevite" conundrum, Part 1: The Ries suevite and Sudbury Onaping Formation compared. <i>Meteoritics and Planetary Science</i> , 2016, 51, 2316-2333.	0.7	20
95	The formation of peak rings in large impact craters. <i>Science</i> , 2016, 354, 878-882.	6.0	181
96	Microbial Diversity of Impact-Generated Habitats. <i>Astrobiology</i> , 2016, 16, 775-786.	1.5	7
97	The nature and origin of the Garson Member of the Onaping Formation, Sudbury impact structure, Canada. <i>Special Paper of the Geological Society of America</i> , 2015, , 165-176.	0.5	2
98	The Basal Onaping Intrusion in the North Range: Roof rocks of the Sudbury Igneous Complex. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1577-1594.	0.7	15
99	Toward quantification of strain-related mosaicity in shocked lunar and terrestrial plagioclase by in-situ micro-X-ray diffraction. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1851-1862.	0.7	42
100	Shock effects in plagioclase feldspar from the Mistastin Lake impact structure, Canada. <i>Meteoritics and Planetary Science</i> , 2015, 50, 1546-1561.	0.7	22
101	New ⁴⁰ Ar/ ³⁹ Ar dating of the Clearwater Lake impact structures (QuÃ©bec, Canada) " Not the binary asteroid impact it seems?. <i>Geochimica Et Cosmochimica Acta</i> , 2015, 148, 304-324.	1.6	29
102	Formation of the "ponds" on asteroid (433) Eros by fluidization. <i>Planetary and Space Science</i> , 2015, 117, 106-118.	0.9	5
103	Global documentation of gullies with the Mars Reconnaissance Orbiter Context Camera and implications for their formation. <i>Icarus</i> , 2015, 252, 236-254.	1.1	125
104	Paleomagnetic and rock magnetic study of the Mistastin Lake impact structure (Labrador, Canada): Implications for geomagnetic perturbation and shock effects. <i>Earth and Planetary Science Letters</i> , 2015, 417, 151-163.	1.8	12
105	Potential for impact glass to preserve microbial metabolism. <i>Earth and Planetary Science Letters</i> , 2015, 430, 95-104.	1.8	11
106	Impact melt- and projectile-bearing ejecta at Barringer Crater, Arizona. <i>Earth and Planetary Science Letters</i> , 2015, 432, 283-292.	1.8	14
107	Using martian single and double layered ejecta craters to probe subsurface stratigraphy. <i>Icarus</i> , 2015, 247, 260-278.	1.1	14
108	Global distribution of lunar impact melt flows. <i>Icarus</i> , 2014, 239, 105-117.	1.1	61

#	ARTICLE	IF	CITATIONS
109	A temperature-controlled sample stage for in situ micro-X-ray diffraction: Application to Mars analog mirabilite-bearing perennial cold spring precipitate mineralogy. <i>American Mineralogist</i> , 2014, 99, 943-947.	0.9	3
110	Revisiting the Rochechouart impact structure, France. <i>Meteoritics and Planetary Science</i> , 2014, 49, 2152-2168.	0.7	9
111	Co-evolution of polygonal and scalloped terrains, southwestern Utopia Planitia, Mars. <i>Earth and Planetary Science Letters</i> , 2014, 387, 44-54.	1.8	7
112	Enigmatic tubular features in impact glass. <i>Geology</i> , 2014, 42, 471-474.	2.0	27
113	A methodology for the semi-automatic digital image analysis of fragmental impactites. <i>Meteoritics and Planetary Science</i> , 2014, 49, 621-635.	0.7	17
114	Impact-Generated Endolithic Habitat Within Crystalline Rocks of the Haughton Impact Structure, Devon Island, Canada. <i>Astrobiology</i> , 2014, 14, 522-533.	1.5	13
115	Issues of geologically-focused situational awareness in robotic planetary missions: Lessons from an analogue mission at Mistastin Lake impact structure, Labrador, Canada. <i>Advances in Space Research</i> , 2013, 52, 272-284.	1.2	6
116	Origin of the central magnetic anomaly at the Haughton impact structure, Canada. <i>Earth and Planetary Science Letters</i> , 2013, 367, 116-122.	1.8	24
117	A multispectral geological study of the Schrödinger impact basin. <i>Canadian Journal of Earth Sciences</i> , 2013, 50, 44-63.	0.6	10
118	Impact-generated hydrothermal systems on Earth and Mars. <i>Icarus</i> , 2013, 224, 347-363.	1.1	219
119	Application of the Brewster angle to quantify the dielectric properties of ground ice formations. <i>Journal of Applied Geophysics</i> , 2013, 99, 12-17.	0.9	8
120	Characterization of the acidic cold seep emplaced jarositic Golden Deposit, NWT, Canada, as an analogue for jarosite deposition on Mars. <i>Icarus</i> , 2013, 224, 382-398.	1.1	16
121	Mineralogy of saline perennial cold springs on Axel Heiberg Island, Nunavut, Canada and implications for spring deposits on Mars. <i>Icarus</i> , 2013, 224, 364-381.	1.1	30
122	An impact origin for hydrated silicates on Mars: A synthesis. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 994-1012.	1.5	46
123	Topographic characterization of lunar complex craters. <i>Geophysical Research Letters</i> , 2013, 40, 38-42.	1.5	48
124	Evidence for life in the isotopic analysis of surface sulphates in the Haughton impact structure, and potential application on Mars. <i>International Journal of Astrobiology</i> , 2012, 11, 93-101.	0.9	6
125	A Mission Control Architecture for robotic lunar sample return as field tested in an analogue deployment to the sudbury impact structure. <i>Advances in Space Research</i> , 2012, 50, 1666-1686.	1.2	14
126	Widespread crater-related pitted materials on Mars: Further evidence for the role of target volatiles during the impact process. <i>Icarus</i> , 2012, 220, 348-368.	1.1	85

#	ARTICLE	IF	CITATIONS
127	Geometric Evolution of Polygonal Terrain Networks in the Canadian High Arctic: Evidence of Increasing Regularity over Time. <i>Permafrost and Periglacial Processes</i> , 2012, 23, 178-186.	1.5	22
128	The effects of meteorite impacts on the availability of bioessential elements for endolithic organisms. <i>Meteoritics and Planetary Science</i> , 2012, 47, 1681-1691.	0.7	8
129	The dielectric permittivity of terrestrial ground ice formations: Considerations for planetary exploration using ground-penetrating radar. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
130	The Impact-Cratering Process. <i>Elements</i> , 2012, 8, 25-30.	0.5	66
131	Weathering of Post-Impact Hydrothermal Deposits from the Haughton Impact Structure: Implications for Microbial Colonization and Biosignature Preservation. <i>Astrobiology</i> , 2011, 11, 537-550.	1.5	12
132	Impact ejecta emplacement on terrestrial planets. <i>Earth and Planetary Science Letters</i> , 2011, 310, 167-181.	1.8	178
133	Shock-induced changes in density and porosity in shock-metamorphosed crystalline rocks, Haughton impact structure, Canada. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1774-1786.	0.7	19
134	The preservation and degradation of filamentous bacteria and biomolecules within iron oxide deposits at Rio Tinto, Spain. <i>Geobiology</i> , 2011, 9, 233-249.	1.1	64
135	Intra-crater glacial processes in central Utopia Planitia, Mars. <i>Icarus</i> , 2011, 212, 86-95.	1.1	18
136	Automated identification of basalt spectra in Clementine lunar data. <i>Planetary and Space Science</i> , 2011, 59, 715-721.	0.9	1
137	Field testing of a rover guidance, navigation, and control architecture to support a ground-ice prospecting mission to Mars. <i>Robotics and Autonomous Systems</i> , 2011, 59, 472-488.	3.0	12
138	Glacier change on Axel Heiberg Island, Nunavut, Canada. <i>Journal of Glaciology</i> , 2011, 57, 1079-1086.	1.1	12
139	The effect of scattering processes on high frequency ground penetrating radar surveys on impact melt breccia - Early results from an arctic field campaign at the Haughton impact structure, Devon Island, Canada. , 2011, , .		0
140	The newly confirmed Luizi impact structure, Democratic Republic of Congo—Insights into central uplift formation and post-impact erosion. <i>Geology</i> , 2011, 39, 851-854.	2.0	19
141	Lidar and the mobile Scene Modeler (mSM) as scientific tools for planetary exploration. <i>Planetary and Space Science</i> , 2010, 58, 691-700.	0.9	12
142	Spectral reflectance properties of carbonates from terrestrial analogue environments: Implications for Mars. <i>Planetary and Space Science</i> , 2010, 58, 522-537.	0.9	18
143	Field testing of robotic technologies to support ground ice prospecting in martian polygonal terrain. <i>Planetary and Space Science</i> , 2010, 58, 671-681.	0.9	9
144	Electromagnetic characterization of polar ice-wedge polygons: Implications for periglacial studies on Mars and Earth. <i>Planetary and Space Science</i> , 2010, 58, 472-481.	0.9	17

#	ARTICLE	IF	CITATIONS
145	Field geology on the Moon: Some lessons learned from the exploration of the Haughton impact structure, Devon Island, Canadian High Arctic. <i>Planetary and Space Science</i> , 2010, 58, 646-657.	0.9	4
146	The microbeâ€“mineral environment and gypsum neogenesis in a weathered polar evaporite. <i>Geobiology</i> , 2010, 8, 293-308.	1.1	36
147	Field Testing of an Integrated Surface/Subsurface Modeling Technique for Planetary Exploration. <i>International Journal of Robotics Research</i> , 2010, 29, 1529-1549.	5.8	17
148	Sulfur isotope signatures for rapid colonization of an impact crater by thermophilic microbes. <i>Geology</i> , 2010, 38, 271-274.	2.0	39
149	Permeability data for impact breccias imply focussed hydrothermal fluid flow. <i>Journal of Geochemical Exploration</i> , 2010, 106, 171-175.	1.5	13
150	Age of the Dakhleh impact event and implications for Middle Stone Age archeology in the Western Desert of Egypt. <i>Earth and Planetary Science Letters</i> , 2010, 291, 201-206.	1.8	15
151	The KeurusselkÃ impact structure, Finlandâ€“Impact origin confirmed by characterization of planar deformation features in quartz grains. <i>Meteoritics and Planetary Science</i> , 2010, 45, 434-446.	0.7	19
152	Preservation of Biological Markers in Clasts Within Impact Melt Breccias from the Haughton Impact Structure, Devon Island. <i>Astrobiology</i> , 2009, 9, 391-400.	1.5	7
153	Stratigraphical evidence of late Amazonian periglaciation and glaciation in the Astapus Colles region of Mars. <i>Icarus</i> , 2009, 202, 17-21.	1.1	22
154	Potential consequences of a Mid-Pleistocene impact event for the Middle Stone Age occupants of Dakhleh Oasis, Western Desert, Egypt. <i>Quaternary International</i> , 2009, 195, 138-149.	0.7	7
155	Mineralogical alteration of artificial meteorites during atmospheric entry. The STONE-5 experiment. <i>Planetary and Space Science</i> , 2008, 56, 976-984.	0.9	31
156	Meteorite impact structures: the good and the bad. <i>Geology Today</i> , 2008, 24, 13-19.	0.3	2
157	Numerical modelling of impact melt production in porous rocks. <i>Earth and Planetary Science Letters</i> , 2008, 269, 530-539.	1.8	152
158	Thermokarst lakes and ponds on Mars in the very recent (late Amazonian) past. <i>Earth and Planetary Science Letters</i> , 2008, 272, 382-393.	1.8	109
159	The transfer of organic signatures from bedrock to sediment. <i>Chemical Geology</i> , 2008, 247, 242-252.	1.4	10
160	Postâ€“impact alteration of surficial suevites in Ries crater, Germany: Hydrothermal modification or weathering processes?. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1827-1840.	0.7	19
161	The effect of target lithology on the products of impact melting. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1939-1954.	0.7	74
162	Midâ€“sized complex crater formation in mixed crystallineâ€“sedimentary targets: Insight from modeling and observation. <i>Meteoritics and Planetary Science</i> , 2008, 43, 1955-1977.	0.7	79

#	ARTICLE	IF	CITATIONS
163	The Dakhleh Glass: Product of an impact airburst or cratering event in the Western Desert of Egypt?. <i>Meteoritics and Planetary Science</i> , 2008, 43, 2089-2107.	0.7	33
164	Impact melting in sedimentary target rocks: An assessment. , 2007, , 1-18.		17
165	Evidence for a $^{142}\text{Sm}/^{147}\text{Sm} \approx 100$ meteorite impact in the Western Desert of Egypt. <i>Earth and Planetary Science Letters</i> , 2007, 253, 378-388.	1.8	44
166	Organic geochemistry of impactites from the Houghton impact structure, Devon Island, Nunavut, Canada. <i>Geochimica Et Cosmochimica Acta</i> , 2007, 71, 1800-1819.	1.6	26
167	Impact metamorphism of CaCO_3 -bearing sandstones at the Houghton structure, Canada. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1945-1960.	0.7	26
168	Impact-induced impoverishment and transformation of a sandstone habitat for lithophytic microorganisms. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1985-1993.	0.7	15
169	Interplanetary Transfer of Photosynthesis: An Experimental Demonstration of A Selective Dispersal Filter in Planetary Island Biogeography. <i>Astrobiology</i> , 2007, 7, 1-9.	1.5	66
170	Effect of volatiles and target lithology on the generation and emplacement of impact crater fill and ejecta deposits on Mars. <i>Meteoritics and Planetary Science</i> , 2006, 41, 1571-1586.	0.7	54
171	Organic geochemical characterization of a Miocene core sample from Houghton impact structure, Devon Island, Nunavut, Canadian High Arctic. <i>Organic Geochemistry</i> , 2006, 37, 688-710.	0.9	9
172	Geomicrobiology of Impact-Altered Rocks. , 2006, , 21-40.		3
173	Hydrothermal activity associated with the Ries impact event, Germany. <i>Geofluids</i> , 2005, 5, 202-220.	0.3	62
174	Thermal alteration of organic matter in an impact crater and the duration of postimpact heating. <i>Geology</i> , 2005, 33, 373.	2.0	33
175	Impact structures: What does crater diameter mean?. , 2005, , .		47
176	The Houghton-Mars Project: Overview of science investigations at the Houghton impact structure and surrounding terrains, and relevance to planetary studies. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1755-1758.	0.7	34
177	Geological overview and cratering model for the Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1759-1776.	0.7	74
178	Re-evaluating the age of the Houghton impact event. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1777-1787.	0.7	34
179	Impactites of the Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1789-1812.	0.7	46
180	Tectonics of complex crater formation as revealed by the Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1813-1834.	0.7	69

#	ARTICLE	IF	CITATIONS
181	Spaceborne visible and thermal infrared lithologic mapping of impact-exposed subsurface lithologies at the Houghton impact structure, Devon Island, Canadian High Arctic: Applications to Mars. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1835-1858.	0.7	14
182	A case study of impact-induced hydrothermal activity: The Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1859-1877.	0.7	82
183	Application Of Organic Geochemistry To Detect Signatures Of Organic Matter In The Houghton Impact Structure. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1879-1885.	0.7	6
184	Intra-crater sedimentary deposits at the Houghton impact structure, Devon Island, Canadian High Arctic. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1887-1899.	0.7	20
185	Effects of asteroid and comet impacts on habitats for lithophytic organisms-A synthesis. <i>Meteoritics and Planetary Science</i> , 2005, 40, 1901-1914.	0.7	41
186	Microbial colonization in impact-generated hydrothermal sulphate deposits, Houghton impact structure, and implications for sulphates on Mars. <i>International Journal of Astrobiology</i> , 2004, 3, 247-256.	0.9	71
187	Impact melt rocks from the Ries structure, Germany: an origin as impact melt flows?. <i>Earth and Planetary Science Letters</i> , 2004, 226, 529-543.	1.8	80
188	The nature of the groundmass of surficial suevite from the Ries impact structure, Germany, and constraints on its origin. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1655-1683.	0.7	99
189	Impact glasses in fallout suevites from the Ries impact structure, Germany: An analytical SEM study. <i>Meteoritics and Planetary Science</i> , 2003, 38, 1641-1667.	0.7	80
190	Evidence for the shock melting of sulfates from the Houghton impact structure, Arctic Canada. <i>Earth and Planetary Science Letters</i> , 2003, 215, 357-370.	1.8	28
191	The Impact Crater as a Habitat: Effects of Impact Processing of Target Materials. <i>Astrobiology</i> , 2003, 3, 181-191.	1.5	44
192	Impact-induced microbial endolithic habitats. <i>Meteoritics and Planetary Science</i> , 2002, 37, 1287-1298.	0.7	130
193	Impact-induced hydrothermal activity within the Houghton impact structure, arctic Canada: Generation of a transient, warm, wet oasis. <i>Meteoritics and Planetary Science</i> , 2001, 36, 731-745.	0.7	127
194	Impact-generated carbonate melts: evidence from the Houghton structure, Canada. <i>Earth and Planetary Science Letters</i> , 2001, 194, 17-29.	1.8	116
195	Extensional tectonics of the Outer Hebrides Fault Zone, South Uist, northwest Scotland. <i>Geological Magazine</i> , 2001, 138, 325-344.	0.9	9
196	Differentiating Fissure-Fed Lava Flow Types and Facies Using RADAR and LiDAR: An Example from the 2014-2015 Holuhraun Lava Flow field. <i>Journal of Geophysical Research: Solid Earth</i> , 0, , .	1.4	1