

Charles A Hibbitts

List of Publications by Year in descending order

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55
papers

3,298
citations

186265

28
h-index

254184

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57
all docs

57
docs citations

57
times ranked

2527
citing authors

#	ARTICLE	IF	CITATIONS
1	Character and Spatial Distribution of OH/H ₂ O on the Surface of the Moon Seen by M ³ on Chandrayaan-1. <i>Science</i> , 2009, 326, 568-572.	12.6	622
2	Salts on Europa's Surface Detected by Galileo's Near Infrared Mapping Spectrometer. <i>Science</i> , 1998, 280, 1242-1245.	12.6	371
3	Hydrated salt minerals on Europa's surface from the Galileo near-infrared mapping spectrometer (NIMS) investigation. <i>Journal of Geophysical Research</i> , 1999, 104, 11827-11851.	3.3	289
4	Organics and Other Molecules in the Surfaces of Callisto and Ganymede. <i>Science</i> , 1997, 278, 271-275.	12.6	185
5	Near-Infrared Spectroscopy and Spectral Mapping of Jupiter and the Galilean Satellites: Results from Galileo's Initial Orbit. <i>Science</i> , 1996, 274, 385-388.	12.6	155
6	Hydrated Salt Minerals on Ganymede's Surface: Evidence of an Ocean Below. <i>Science</i> , 2001, 292, 1523-1525.	12.6	141
7	Impact crater lakes on Mars. <i>Journal of Geophysical Research</i> , 1996, 101, 14951-14955.	3.3	122
8	Cassini Visual and Infrared Mapping Spectrometer Observations of Iapetus: Detection of CO ₂ . <i>Astrophysical Journal</i> , 2005, 622, L149-L152.	4.5	94
9	Nature and degree of aqueous alteration in CM and CI carbonaceous chondrites. <i>Meteoritics and Planetary Science</i> , 2013, 48, 1618-1637.	1.6	94
10	Composition of Titan's surface from Cassini VIMS. <i>Planetary and Space Science</i> , 2006, 54, 1524-1539.	1.7	89
11	The low-iron, reduced surface of Mercury as seen in spectral reflectance by MESSENGER. <i>Icarus</i> , 2014, 228, 364-374.	2.5	82
12	Carbon dioxide on the satellites of Saturn: Results from the Cassini VIMS investigation and revisions to the VIMS wavelength scale. <i>Icarus</i> , 2010, 206, 561-572.	2.5	78
13	Thermal stability of water and hydroxyl on the surface of the Moon from temperature-programmed desorption measurements of lunar analog materials. <i>Icarus</i> , 2011, 213, 64-72.	2.5	68
14	Distribution of icy particles across Enceladus' surface as derived from Cassini-VIMS measurements. <i>Icarus</i> , 2008, 193, 407-419.	2.5	64
15	Saturn's icy satellites investigated by Cassini-VIMS. <i>Icarus</i> , 2007, 186, 259-290.	2.5	62
16	Cassini VIMS observations of the Galilean satellites including the VIMS calibration procedure. <i>Icarus</i> , 2004, 172, 104-126.	2.5	61
17	Dione's spectral and geological properties. <i>Icarus</i> , 2010, 206, 631-652.	2.5	61
18	Mechanisms for incorporation of hydrogen in and on terrestrial planetary surfaces. <i>Icarus</i> , 2010, 208, 425-437.	2.5	56

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19	Temperature programmed desorption studies of water interactions with Apollo lunar samples 12001 and 72501. <i>Icarus</i> , 2015, 255, 24-29.	2.5	53
20	Observations with the Visual and Infrared Mapping Spectrometer (VIMS) during Cassini's flyby of Jupiter. <i>Icarus</i> , 2003, 164, 461-470.	2.5	48
21	Grain-scale supercharging and breakdown on airless regoliths. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2150-2165.	3.6	47
22	Solar Wind-Induced Water Cycle on the Moon. <i>Geophysical Research Letters</i> , 2018, 45, 10,959.	4.0	45
23	Galileo's Multiinstrument Spectral View of Europa's Surface Composition. <i>Icarus</i> , 1999, 139, 179-188.	2.5	43
24	The Saturnian satellite Rhea as seen by Cassini VIMS. <i>Planetary and Space Science</i> , 2012, 61, 142-160.	1.7	38
25	3-1/4m reflectance spectroscopy of carbonaceous chondrites under asteroid-like conditions. <i>Icarus</i> , 2019, 333, 243-251.	2.5	38
26	Water interactions with micronized lunar surrogates JSC-1A and albite under ultra-high vacuum with application to lunar observations. <i>Journal of Geophysical Research E: Planets</i> , 2013, 118, 105-115.	3.6	34
27	Strategies for Detecting Biological Molecules on Titan. <i>Astrobiology</i> , 2018, 18, 571-585.	3.0	33
28	Identification of spectral units on Phoebe. <i>Icarus</i> , 2008, 193, 233-251.	2.5	32
29	Physisorption of CO ₂ on non-ice materials relevant to icy satellites. <i>Icarus</i> , 2007, 191, 371-380.	2.5	27
30	Reduction of instrument-dependent noise in hyperspectral image data using the principal component analysis: Applications to Galileo NIMS data. <i>Planetary and Space Science</i> , 2008, 56, 406-419.	1.7	23
31	Modeling of the vapor release from the LCROSS impact: 2. Observations from LAMP. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	23
32	Magnetospheric considerations for solar system ice state. <i>Icarus</i> , 2018, 302, 560-564.	2.5	23
33	Color centers in salts - Evidence for the presence of sulfates on Europa. <i>Icarus</i> , 2019, 326, 37-47.	2.5	23
34	H ₂ O-ice particle size variations across Ganymede's and Callisto's surface. <i>Icarus</i> , 2020, 337, 113440.	2.5	15
35	Investigation of Water Interactions With Apollo Lunar Regolith Grains. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006147.	3.6	11
36	Polarization of visible light by desert pavements. <i>Remote Sensing of Environment</i> , 2008, 112, 1808-1819.	11.0	7

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37	Assessing the potential of stratospheric balloons for planetary science. , 2013, , .		7
38	Stratospheric balloon observations of comets C/2013 A1 (Siding Spring), C/2014 E2 (Jacques), and Ceres. Icarus, 2017, 281, 404-416.	2.5	6
39	Spectral nature of CO2 adsorption onto meteorites. Icarus, 2016, 280, 366-377.	2.5	5
40	Dual-band discrimination and imaging of plastic objects. , 2019, , .		5
41	Thermal evolution of water and hydrogen from Apollo lunar regolith grains. Earth and Planetary Science Letters, 2021, 571, 117107.	4.4	4
42	Science measurements and instruments for a planetary science stratospheric balloon platform. , 2013, , .		3
43	Operation of a ³ He proportional counter in the Ganymede radiation environment. Planetary and Space Science, 2012, 61, 46-52.	1.7	2
44	The gas-surface interaction of a human-occupied spacecraft with a near-Earth object. Advances in Space Research, 2016, 58, 1648-1653.	2.6	2
45	Linking Water-Rich Asteroids and Meteorites. , 2018, , 371-408.		2
46	Characterizing optical properties of disturbed surface signatures. Proceedings of SPIE, 2011, , .	0.8	1
47	Optical Detection of Buried Explosive Hazards. Proceedings of the Human Factors and Ergonomics Society, 2013, 57, 1194-1198.	0.3	1
48	BRRISON IR Camera (BIRC). , 2014, , .		1
49	Lunar Volatiles and Solar System Science. , 2021, 53, .		1
50	Remote detection of buried mines. , 2006, , .		0
51	Using hosted payloads on iridium NEXT to provide global warning of volcanic ash. Proceedings of SPIE, 2012, , .	0.8	0
52	APL JANUS System Progress on Commercial Suborbital Launch Vehicles: Moving the Laboratory Environment to Near Space. Gravitational and Space Research: Publication of the American Society for Gravitational and Space Research, 2021, 9, 30-49.	0.8	0
53	Trafficability of Desert Terrains. Encyclopedia of Earth Sciences Series, 2014, , 846-849.	0.1	0
54	Compact midwave imaging system (CMIS) for weather satellite applications. , 2018, , .		0

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55	Angle dependent scatter in CVD ZnSe and single crystal CaF2 from the infrared through the NIR. , 2019, , ·		0