Carl Hergenrother

List of Publications by Year
in descending order

52	4,152	172457	175258
papers	citations	29 h-index	52 g-index

58	58	58	3150
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An Evaluation of Electrostatic Lofting and Subsequent Particle Motion on Bennu. Planetary Science Journal, 2022, 3, 85.	3.6	3
2	Near-zero cohesion and loose packing of Bennuâ€™s near subsurface revealed by spacecraft contact. Science Advances, 2022, 8, .	10.3	31
3	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. Science, 2022, 377, 285-291.	12.6	39
4	Surfaces of (Nearly) Dormant Comets and the Recent History of the Quadrantid Meteor Shower. Planetary Science Journal, 2021, 2, 31.	3.6	5
5	Hayabusa2 extended mission: New voyage to rendezvous with a small asteroid rotating with a short period. Advances in Space Research, 2021, 68, 1533-1555.	2.6	20
6	Bennu's Natural Sample Delivery Mechanism: Estimating the Flux of Bennuid Meteors at Earth. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006817.	3.6	4
7	Observational investigation of the 2013 near-Earth encounter by asteroid (367943) Duende. Icarus, 2020, 340, 113519.	2.5	5
8	Variations in color and reflectance on the surface of asteroid (101955) Bennu. Science, 2020, 370, .	12.6	84
9	Photometry of Particles Ejected From Active Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006381.	3.6	23
10	Trajectory Estimation for Particles Observed in the Vicinity of (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006363.	3.6	51
11	Initial Orbit Determination and Event Reconstruction From Estimation of Particle Trajectories About (101955) Bennu. Earth and Space Science, 2020, 7, e2019EA000937.	2.6	14
12	Thermal Fatigue as a Driving Mechanism for Activity on Asteroid Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006325.	3.6	40
13	Reconstruction of Bennu Particle Events From Sparse Data. Earth and Space Science, 2020, 7, e2019EA000938.	2.6	18
14	Implications for Ice Stability and Particle Ejection From Highâ€Resolution Temperature Modeling of Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006323.	3.6	24
15	Introduction to the Special Issue: Exploration of the Activity of Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006549.	3.6	23
16	Autonomous Detection of Particles and Tracks in Optical Images. Earth and Space Science, 2020, 7, e2019EA000843.	2.6	9
17	Meteoroid Impacts as a Source of Bennu's Particle Ejection Events. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006282.	3.6	30
18	Dynamical Evolution of Simulated Particles Ejected From Asteroid Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006229.	3.6	23

#	Article	IF	Citations
19	Particle Ejection Contributions to the Rotational Acceleration and Orbit Evolution of Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006284.	3.6	12
20	Ground and In-Flight Calibration of the OSIRIS-REx Camera Suite. Space Science Reviews, 2020, 216, 12.	8.1	57
21	Volatile-rich Asteroids in the Inner Solar System. Planetary Science Journal, 2020, 1, 82.	3.6	7
22	Detection of Rotational Acceleration of Bennu Using HST Light Curve Observations. Geophysical Research Letters, 2019, 46, 1956-1962.	4.0	36
23	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. Nature Communications, 2019, 10, 1291.	12.8	99
24	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. Nature Astronomy, 2019, 3, 341-351.	10.1	188
25	The unexpected surface of asteroid (101955) Bennu. Nature, 2019, 568, 55-60.	27.8	364
26	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. Science, 2019, 366, .	12.6	129
27	Overcoming the Challenges Associated with Imageâ€Based Mapping of Small Bodies in Preparation for the OSIRISâ€REx Mission to (101955) Bennu. Earth and Space Science, 2018, 5, 929-949.	2.6	26
28	Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon. Astronomical Journal, 2018, 156, 287.	4.7	23
29	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. Space Science Reviews, 2017, 212, 925-984.	8.1	426
30	Results from the worldwide coma morphology campaign for comet ISON (C/2012 S1). Planetary and Space Science, 2015, 118, 127-137.	1.7	5
31	Photometric models of disk-integrated observations of the OSIRIS-REx target Asteroid (101955) Bennu. Icarus, 2015, 252, 393-399.	2.5	19
32	Spectral slope variations for OSIRIS-REx target Asteroid (101955) Bennu: Possible evidence for a fine-grained regolith equatorial ridge. Icarus, 2015, 256, 22-29.	2.5	54
33	The OSIRISâ€REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. Meteoritics and Planetary Science, 2015, 50, 834-849.	1.6	168
34	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. Icarus, 2013, 226, 663-670.	2.5	63
35	Shape model and surface properties of the OSIRIS-REx target Asteroid (101955) Bennu from radar and lightcurve observations. Icarus, 2013, 226, 629-640.	2.5	186
36	Asteroid (101955) 1999 RQ36: Spectroscopy from 0.4 to 2.4Î¼m and meteorite analogs. Icarus, 2011, 216, 462-475.	2.5	156

#	Article	IF	Citations
37	A survey of small fast rotating asteroids among the near-Earth asteroid population. Icarus, 2011, 214, 194-209.	2.5	34
38	MASS AND RADIUS DETERMINATIONS FOR FIVE TRANSITING M-DWARF STARS. Astrophysical Journal, 2009, 701, 764-775.	4.5	37
39	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. Astrophysical Journal, 2009, 700, 331-357.	4.5	388
40	The Rapidly Flaring Afterglow of the Very Bright and Energetic GRB 070125. Astrophysical Journal, 2008, 685, 361-375.	4.5	27
41	The Mass and Radius of the Unseen M Dwarf Companion in the Singleâ€Lined Eclipsing Binary HATâ€TRâ€205â€013. Astrophysical Journal, 2007, 663, 573-582.	4.5	58
42	Nuclear Spectra of Comet 28P Neujmin 1. Astronomical Journal, 2007, 134, 1626-1633.	4.7	10
43	R- and J-band photometry of Comets 2P/Encke and 9P/Tempel 1. Icarus, 2007, 191, 45-50.	2.5	2
44	The Transit Light Curve Project. I. Four Consecutive Transits of the Exoplanet XOâ€1b. Astrophysical Journal, 2006, 652, 1715-1723.	4.5	193
45	Comet 162P/Siding Spring: A Surprisingly Large Nucleus. Astronomical Journal, 2006, 132, 1354-1360.	4.7	19
46	UBVRILight Curves of 44 Type Ia Supernovae. Astronomical Journal, 2006, 131, 527-554.	4.7	302
47	Deep Impact: Observations from a Worldwide Earth-Based Campaign. Science, 2005, 310, 265-269.	12.6	182
48	Simultaneous visible and near-infrared time resolved observations of the outer Solar System object (29981) 1999 TD10. Icarus, 2004, 171, 506-515.	2.5	14
49	Lightcurve Analysis of Four New Monolithic Fast-Rotating Asteroids. Icarus, 2002, 157, 139-154.	2.5	30
50	Discovery of 12 satellites of Saturn exhibiting orbital clustering. Nature, 2001, 412, 163-166.	27.8	99
51	The Type Ia Supernova 1998bu in M96 and the Hubble Constant. Astrophysical Journal, Supplement Series, 1999, 125, 73-97.	7.7	168
52	A new dynamical class of object in the outer Solar System. Nature, 1997, 387, 573-575.	27.8	123