

Carl Hergenrother

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

4,152
citations

172457

29
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

3150
citing authors

#	ARTICLE	IF	CITATIONS
1	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017, 212, 925-984.	8.1	426
2	CfA3: 185 TYPE Ia SUPERNOVA LIGHT CURVES FROM THE CfA. <i>Astrophysical Journal</i> , 2009, 700, 331-357.	4.5	388
3	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	27.8	364
4	UBVRLight Curves of 44 Type Ia Supernovae. <i>Astronomical Journal</i> , 2006, 131, 527-554.	4.7	302
5	The Transit Light Curve Project. I. Four Consecutive Transits of the Exoplanet XOâ€b. <i>Astrophysical Journal</i> , 2006, 652, 1715-1723.	4.5	193
6	Properties of rubble-pile asteroid (101955) Bennu from OSIRIS-REx imaging and thermal analysis. <i>Nature Astronomy</i> , 2019, 3, 341-351.	10.1	188
7	Shape model and surface properties of the OSIRIS-REx target Asteroid (101955) Bennu from radar and lightcurve observations. <i>Icarus</i> , 2013, 226, 629-640.	2.5	186
8	Deep Impact: Observations from a Worldwide Earth-Based Campaign. <i>Science</i> , 2005, 310, 265-269.	12.6	182
9	The Type Ia Supernova 1998bu in M96 and the Hubble Constant. <i>Astrophysical Journal, Supplement Series</i> , 1999, 125, 73-97.	7.7	168
10	The OSIRISâ€REx target asteroid (101955) Bennu: Constraints on its physical, geological, and dynamical nature from astronomical observations. <i>Meteoritics and Planetary Science</i> , 2015, 50, 834-849.	1.6	168
11	Asteroid (101955) 1999 RQ36: Spectroscopy from 0.4 to 2.4âˆ¼m and meteorite analogs. <i>Icarus</i> , 2011, 216, 462-475.	2.5	156
12	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	12.6	129
13	A new dynamical class of object in the outer Solar System. <i>Nature</i> , 1997, 387, 573-575.	27.8	123
14	Discovery of 12 satellites of Saturn exhibiting orbital clustering. <i>Nature</i> , 2001, 412, 163-166.	27.8	99
15	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019, 10, 1291.	12.8	99
16	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
17	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013, 226, 663-670.	2.5	63
18	The Mass and Radius of the Unseen M Dwarf Companion in the Singleâ€Lined Eclipsing Binary HATâ€TRâ€205â€013. <i>Astrophysical Journal</i> , 2007, 663, 573-582.	4.5	58

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19	Ground and In-Flight Calibration of the OSIRIS-REx Camera Suite. <i>Space Science Reviews</i> , 2020, 216, 12.	8.1	57
20	Spectral slope variations for OSIRIS-REx target Asteroid (101955) Bennu: Possible evidence for a fine-grained regolith equatorial ridge. <i>Icarus</i> , 2015, 256, 22-29.	2.5	54
21	Trajectory Estimation for Particles Observed in the Vicinity of (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006363.	3.6	51
22	Thermal Fatigue as a Driving Mechanism for Activity on Asteroid Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006325.	3.6	40
23	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
24	MASS AND RADIUS DETERMINATIONS FOR FIVE TRANSITING M-DWARF STARS. <i>Astrophysical Journal</i> , 2009, 701, 764-775.	4.5	37
25	Detection of Rotational Acceleration of Bennu Using HST Light Curve Observations. <i>Geophysical Research Letters</i> , 2019, 46, 1956-1962.	4.0	36
26	A survey of small fast rotating asteroids among the near-Earth asteroid population. <i>Icarus</i> , 2011, 214, 194-209.	2.5	34
27	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
28	Lightcurve Analysis of Four New Monolithic Fast-Rotating Asteroids. <i>Icarus</i> , 2002, 157, 139-154.	2.5	30
29	Meteoroid Impacts as a Source of Bennu's Particle Ejection Events. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006282.	3.6	30
30	The Rapidly Flaring Afterglow of the Very Bright and Energetic GRB 070125. <i>Astrophysical Journal</i> , 2008, 685, 361-375.	4.5	27
31	Overcoming the Challenges Associated with Image-Based Mapping of Small Bodies in Preparation for the OSIRIS-REx Mission to (101955) Bennu. <i>Earth and Space Science</i> , 2018, 5, 929-949.	2.6	26
32	Implications for Ice Stability and Particle Ejection From High-Resolution Temperature Modeling of Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006323.	3.6	24
33	Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon. <i>Astronomical Journal</i> , 2018, 156, 287.	4.7	23
34	Photometry of Particles Ejected From Active Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006381.	3.6	23
35	Introduction to the Special Issue: Exploration of the Activity of Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006549.	3.6	23
36	Dynamical Evolution of Simulated Particles Ejected From Asteroid Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006229.	3.6	23

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37	Hayabusa2 extended mission: New voyage to rendezvous with a small asteroid rotating with a short period. <i>Advances in Space Research</i> , 2021, 68, 1533-1555.	2.6	20
38	Comet 162P/Siding Spring: A Surprisingly Large Nucleus. <i>Astronomical Journal</i> , 2006, 132, 1354-1360.	4.7	19
39	Photometric models of disk-integrated observations of the OSIRIS-REx target Asteroid (101955) Bennu. <i>Icarus</i> , 2015, 252, 393-399.	2.5	19
40	Reconstruction of Bennu Particle Events From Sparse Data. <i>Earth and Space Science</i> , 2020, 7, e2019EA000938.	2.6	18
41	Simultaneous visible and near-infrared time resolved observations of the outer Solar System object (29981) 1999 TD10. <i>Icarus</i> , 2004, 171, 506-515.	2.5	14
42	Initial Orbit Determination and Event Reconstruction From Estimation of Particle Trajectories About (101955) Bennu. <i>Earth and Space Science</i> , 2020, 7, e2019EA000937.	2.6	14
43	Particle Ejection Contributions to the Rotational Acceleration and Orbit Evolution of Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006284.	3.6	12
44	Nuclear Spectra of Comet 28P Neujmin 1. <i>Astronomical Journal</i> , 2007, 134, 1626-1633.	4.7	10
45	Autonomous Detection of Particles and Tracks in Optical Images. <i>Earth and Space Science</i> , 2020, 7, e2019EA000843.	2.6	9
46	Volatile-rich Asteroids in the Inner Solar System. <i>Planetary Science Journal</i> , 2020, 1, 82.	3.6	7
47	Results from the worldwide coma morphology campaign for comet ISON (C/2012 S1). <i>Planetary and Space Science</i> , 2015, 118, 127-137.	1.7	5
48	Observational investigation of the 2013 near-Earth encounter by asteroid (367943) Duende. <i>Icarus</i> , 2020, 340, 113519.	2.5	5
49	Surfaces of (Nearly) Dormant Comets and the Recent History of the Quadrantid Meteor Shower. <i>Planetary Science Journal</i> , 2021, 2, 31.	3.6	5
50	Bennu's Natural Sample Delivery Mechanism: Estimating the Flux of Bennuid Meteors at Earth. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006817.	3.6	4
51	An Evaluation of Electrostatic Lofting and Subsequent Particle Motion on Bennu. <i>Planetary Science Journal</i> , 2022, 3, 85.	3.6	3
52	R- and J-band photometry of Comets 2P/Encke and 9P/Tempel 1. <i>Icarus</i> , 2007, 191, 45-50.	2.5	2