

Joshua Emery

List of Publications by Year in descending order

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74
papers

4,531
citations

117625

34
h-index

102487

66
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77
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77
docs citations

77
times ranked

2346
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	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	27.8	364
3	Detection of ice and organics on an asteroidal surface. <i>Nature</i> , 2010, 464, 1322-1323.	27.8	320
4	Evidence for widespread hydrated minerals on asteroid (101955) Bennu. <i>Nature Astronomy</i> , 2019, 3, 332-340.	10.1	251
5	Orbit and bulk density of the OSIRIS-REx target Asteroid (101955) Bennu. <i>Icarus</i> , 2014, 235, 5-22.	2.5	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	The OSIRIS-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
8	Outer Main Belt asteroids: Identification and distribution of four 3- $\frac{1}{4}$ m spectral groups. <i>Icarus</i> , 2012, 219, 641-654.	2.5	156
9	Cohesive forces prevent the rotational breakup of rubble-pile asteroid (29075) 1950 DA. <i>Nature</i> , 2014, 512, 174-176.	27.8	154
10	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	10.1	132
11	NEAR-INFRARED SPECTROSCOPY OF TROJAN ASTEROIDS: EVIDENCE FOR TWO COMPOSITIONAL GROUPS. <i>Astronomical Journal</i> , 2011, 141, 25.	4.7	129
12	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	12.6	129
13	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
14	Asteroid (101955) Bennu's weak boulders and thermally anomalous equator. <i>Science Advances</i> , 2020, 6, .	10.3	83
15	Hayabusa-2 mission target asteroid 162173 Ryugu (1999 JU ₃): Searching for the object's spin-axis orientation. <i>Astronomy and Astrophysics</i> , 2017, 599, A103.	5.1	77
16	Near-Earth asteroid (3200) Phaethon: Characterization of its orbit, spin state, and thermophysical parameters. <i>Astronomy and Astrophysics</i> , 2016, 592, A34.	5.1	73
17	Bright carbonate veins on asteroid (101955) Bennu: Implications for aqueous alteration history. <i>Science</i> , 2020, 370, .	12.6	71
18	Eclipsing binary Trojan asteroid Patroclus: Thermal inertia from Spitzer observations. <i>Icarus</i> , 2010, 205, 505-515.	2.5	68

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19	Carbonaceous chondrites as analogs for the composition and alteration of Ceres. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1793-1804.	1.6	65
20	Interpretation of thermal emission. I. The effect of roughness for spatially resolved atmosphereless bodies. <i>Icarus</i> , 2015, 252, 1-21.	2.5	62
21	Widespread carbon-bearing materials on near-Earth asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	56
22	Physical characterization of Warm Spitzer-observed near-Earth objects. <i>Icarus</i> , 2014, 228, 217-246.	2.5	55
23	Asteroid Thermophysical Modeling. , 2015, , .		55
24	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
25	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021, 2, 171.	3.6	54
26	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
27	Heterogeneous mass distribution of the rubble-pile asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	10.3	50
28	Composition of KBO (50000) Quaoar. <i>Astronomy and Astrophysics</i> , 2009, 501, 349-357.	5.1	49
29	Fine-regolith production on asteroids controlled by rock porosity. <i>Nature</i> , 2021, 598, 49-52.	27.8	45
30	The Main Asteroid menagerie: Results of an NIR spectral survey of 45 main-belt asteroids. <i>Meteoritics and Planetary Science</i> , 2011, 46, 1910-1938.	1.6	42
31	THE DIFFERING MAGNITUDE DISTRIBUTIONS OF THE TWO JUPITER TROJAN COLOR POPULATIONS. <i>Astronomical Journal</i> , 2014, 148, 112.	4.7	41
32	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
33	Evidence for Ammonia-bearing Species on the Uranian Satellite Ariel Supports Recent Geologic Activity. <i>Astrophysical Journal Letters</i> , 2020, 898, L22.	8.3	38
34	Ices on (90377) Sedna: confirmation and compositional constraints. <i>Astronomy and Astrophysics</i> , 2007, 466, 395-398.	5.1	37
35	Detection of Rotational Acceleration of Bennu Using HST Light Curve Observations. <i>Geophysical Research Letters</i> , 2019, 46, 1956-1962.	4.0	36
36	Asteroid (16) Psyche: Evidence for a silicate regolith from spitzer space telescope spectroscopy. <i>Icarus</i> , 2018, 304, 58-73.	2.5	34

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37	Red material on the large moons of Uranus: Dust from the irregular satellites?. <i>Icarus</i> , 2018, 314, 210-231.	2.5	34
38	THE Ch-CLASS ASTEROIDS: CONNECTING A VISIBLE TAXONOMIC CLASS TO A 3 μm BAND SHAPE. <i>Astronomical Journal</i> , 2015, 150, 198.	4.7	32
39	Observing the variation of asteroid thermal inertia with heliocentric distance. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1782-1802.	4.4	32
40	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
41	Asteroid (90) Antiope: Another icy member of the Themis family?. <i>Icarus</i> , 2015, 254, 150-156.	2.5	29
42	Ephemeris and hazard assessment for near-Earth asteroid (101955) Bennu based on OSIRIS-REx data. <i>Icarus</i> , 2021, 369, 114594.	2.5	28
43	Mineralogy and thermal properties of V-type Asteroid 956 Elisa: Evidence for diogenitic material from the Spitzer IRS (5 μm) spectrum. <i>Icarus</i> , 2011, 213, 510-523.	2.5	26
44	Infrared Spectroscopy of Large, Low-Albedo Asteroids: Are Ceres and Themis Archetypes or Outliers?. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 1393-1409.	3.6	25
45	Evidence for OH or H ₂ O on the surface of 433 Eros and 1036 Ganymed. <i>Icarus</i> , 2018, 304, 74-82.	2.5	24
46	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
47	Dynamical Evolution of Simulated Particles Ejected From Asteroid Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006229.	3.6	23
48	OSIRIS-REx spectral analysis of (101955) Bennu by multivariate statistics. <i>Astronomy and Astrophysics</i> , 2020, 637, L4.	5.1	23
49	Astronomical Observations of Volatiles on Asteroids. , 2015, , .		22
50	Near-infrared observations of active asteroid (3200) Phaethon reveal no evidence for hydration. <i>Nature Communications</i> , 2020, 11, 2050.	12.8	21
51	Low surface strength of the asteroid Bennu inferred from impact ejecta deposit. <i>Nature Geoscience</i> , 2022, 15, 447-452.	12.9	19
52	Compositional Constraints for Lucy Mission Trojan Asteroids via Near-infrared Spectroscopy. <i>Astronomical Journal</i> , 2019, 158, 204.	4.7	16
53	Characterization of material around the centaur (2060) Chiron from a visible and near-infrared stellar occultation in 2011. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 491, 3643-3654.	4.4	15
54	Probing the regoliths of the classical Uranian satellites: Are their surfaces mantled by a layer of tiny H ₂ O ice grains?. <i>Icarus</i> , 2020, 338, 113513.	2.5	15

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55	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
56	Thermophysical Investigation of Asteroid Surfaces. I. Characterization of Thermal Inertia. <i>Planetary Science Journal</i> , 2021, 2, 161.	3.6	12
57	Thermophysical Modeling of Asteroid Surfaces Using Ellipsoid Shape Models. <i>Astronomical Journal</i> , 2019, 157, 2.	4.7	11
58	Rotationally resolved spectroscopy of (20000) Varuna in the near-infrared. <i>Astronomy and Astrophysics</i> , 2014, 562, A85.	5.1	10
59	Composition of organics on asteroid (101955) Bennu. <i>Astronomy and Astrophysics</i> , 2021, 653, L1.	5.1	10
60	Spectrophotometric Modeling and Mapping of (101955) Bennu. <i>Planetary Science Journal</i> , 2021, 2, 117.	3.6	9
61	Evidence for Sulfur-bearing Species on Callisto's Leading Hemisphere: Sourced from Jupiter's Irregular Satellites or Io?. <i>Astrophysical Journal Letters</i> , 2020, 902, L38.	8.3	9
62	A CO ₂ Cycle on Ariel? Radiolytic Production and Migration to Low-latitude Cold Traps. <i>Planetary Science Journal</i> , 2022, 3, 8.	3.6	9
63	The Nature of Low-albedo Small Bodies from 3 μ m Spectroscopy: One Group that Formed within the Ammonia Snow Line and One that Formed beyond it. <i>Planetary Science Journal</i> , 2022, 3, 153.	3.6	9
64	OSIRIS-REx Visible and Near-Infrared Observations of the Moon. <i>Geophysical Research Letters</i> , 2019, 46, 6322-6326.	4.0	8
65	Spitzer's Solar System studies of asteroids, planets and the zodiacal cloud. <i>Nature Astronomy</i> , 2020, 4, 940-946.	10.1	7
66	Visible-near infrared spectral indices for mapping mineralogy and chemistry with OSIRIS-REx. <i>Meteoritics and Planetary Science</i> , 2020, 55, 744-765.	1.6	7
67	Compositional Study of Trans-Neptunian Objects at $\lambda \geq 2.2 \mu$ m. <i>Planetary Science Journal</i> , 2021, 2, 10.	3.6	7
68	Thermophysical Investigation of Asteroid Surfaces. II. Factors Influencing Grain Size. <i>Planetary Science Journal</i> , 2022, 3, 47.	3.6	7
69	Full-Field Modeling of Heat Transfer in Asteroid Regolith: 2. Effects of Porosity. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	7
70	Comparison of the Physical Properties of the L4 and L5 Trojan Asteroids from ATLAS Data. <i>Planetary Science Journal</i> , 2021, 2, 6.	3.6	6
71	High-Resolution Thermophysical Analysis of the OSIRIS-REx Sample Site and Three Other Regions of Interest on Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	5
72	Regional Photometric Modeling of Asteroid (101955) Bennu. <i>Planetary Science Journal</i> , 2021, 2, 124.	3.6	4

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73	Simulated SPHEREx spectra of asteroids and their implications for asteroid size and reflectance estimation. <i>Icarus</i> , 2022, 371, 114696.	2.5	2
74	Spectral Analyses of Asteroids. , 2019, , 393-412.		1