

Edward B Bierhaus

List of Publications by Year in descending order

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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 IMPORTANCE OF SECONDARY CRATERING TO AGE CONSTRAINTS ON PLANETARY SURFACES. <i>Annual Review of Earth and Planetary Sciences</i> , 2006, 34, 535-567.	11.0	228
3	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
4	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
5	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
6	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019, 12, 242-246.	12.9	161
7	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	10.1	132
8	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
9	Secondary craters on Europa and implications for cratered surfaces. <i>Nature</i> , 2005, 437, 1125-1127.	27.8	112
10	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019, 10, 1291.	12.8	99
11	The OSIRIS-REx Laser Altimeter (OLA) Investigation and Instrument. <i>Space Science Reviews</i> , 2017, 212, 899-924.	8.1	97
12	The OSIRIS-REx Spacecraft and the Touch-and-Go Sample Acquisition Mechanism (TAGSAM). <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	92
13	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
14	Digital terrain mapping by the OSIRIS-REx mission. <i>Planetary and Space Science</i> , 2020, 180, 104764.	1.7	81
15	Bennu's near-Earth lifetime of 1.75 million years inferred from craters on its boulders. <i>Nature</i> , 2020, 587, 205-209.	27.8	62
16	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006475.	3.6	60
17	Hemispherical differences in the shape and topography of asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	10.3	57
18	Revised recommended methods for analyzing crater size-frequency distributions. <i>Meteoritics and Planetary Science</i> , 2018, 53, 891-931.	1.6	55

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19	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021, 2, 171.	3.6	54
20	OSIRIS-REx Contamination Control Strategy and Implementation. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	50
21	The role of ejecta in the small crater populations on the mid-sized saturnian satellites. <i>Icarus</i> , 2012, 218, 602-621.	2.5	46
22	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
23	Secondary craters and ejecta across the solar system: Populations and effects on impactâ€‘craterâ€‘based chronologies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 638-671.	1.6	35
24	Particle Size-Frequency Distributions of the OSIRIS-REx Candidate Sample Sites on Asteroid (101955) Bennu. <i>Remote Sensing</i> , 2021, 13, 1315.	4.0	33
25	Global shape modeling using the OSIRIS-REx scanning Laser Altimeter. <i>Planetary and Space Science</i> , 2019, 177, 104688.	1.7	32
26	Near-zero cohesion and loose packing of Bennuâ€™s near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
27	Craters and ejecta on Pluto and Charon: Anticipated results from the New Horizons flyby. <i>Icarus</i> , 2015, 246, 165-182.	2.5	30
28	Geology before Pluto: Pre-encounter considerations. <i>Icarus</i> , 2015, 246, 65-81.	2.5	29
29	Constraints on Europa's surface properties from primary and secondary crater morphology. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
30	Modified granular impact force laws for the OSIRIS-REx touchdown on the surface of asteroid (101955) Bennu. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 5087-5105.	4.4	21
31	The Morphometry of Impact Craters on Bennu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089672.	4.0	20
32	Crater population on asteroid (101955) Bennu indicates impact armouring and a young surface. <i>Nature Geoscience</i> , 2022, 15, 440-446.	12.9	20
33	Low surface strength of the asteroid Bennu inferred from impact ejecta deposit. <i>Nature Geoscience</i> , 2022, 15, 447-452.	12.9	19
34	Validation of Stereophotoclinometric Shape Models of Asteroid (101955) Bennu during the OSIRIS-REx Mission. <i>Planetary Science Journal</i> , 2021, 2, 82.	3.6	17
35	Internal rubble properties of asteroid (101955) Bennu. <i>Icarus</i> , 2021, 370, 114665.	2.5	15
36	Bennu regolith mobilized by TAGSAM: Expectations for the OSIRIS-REx sample collection event and application to understanding naturally ejected particles. <i>Icarus</i> , 2021, 355, 114142.	2.5	14

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37	The Formation of Terraces on Asteroid (101955) Bennu. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	14
38	The global surface roughness of 25143 Itokawa. Icarus, 2019, 325, 141-152.	2.5	13
39	Global geologic map of asteroid (101955) Bennu indicates heterogeneous resurfacing in the past 500,000 years. Icarus, 2022, 381, 114992.	2.5	13
40	Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission. Space Science Reviews, 2022, 218, 20.	8.1	12
41	Improved techniques for size-frequency distribution analysis in the planetary sciences: Application to blocks on 25143 Itokawa. Icarus, 2015, 247, 77-80.	2.5	10
42	Geologic Context of the OSIRIS-REx Sample Site from High-resolution Topography and Imaging. Planetary Science Journal, 2022, 3, 75.	3.6	10
43	Outgassing from the OSIRIS-REx sample return capsule: characterization and mitigation. Acta Astronautica, 2020, 166, 391-399.	3.2	7
44	Spectral analysis of craters on (101955) Bennu. Icarus, 2021, 357, 114252.	2.5	6
45	TAGSAM: A gas-driven system for collecting samples from solar system bodies. , 2016, , .		5
46	The morphometry of small impact craters on Bennu: Relationships to geologic units, boulders, and impact armoring. Icarus, 2022, 384, 115058.	2.5	3