

# Edward B Bierhaus

## List of Publications by Year in descending order

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Version: 2024-02-01

46  
papers

3,017  
citations

201674

27  
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233421

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47  
docs citations

47  
times ranked

1872  
citing authors

#	ARTICLE	IF	CITATIONS
1	Global geologic map of asteroid (101955) Bennu indicates heterogeneous resurfacing in the past 500,000 years. <i>Icarus</i> , 2022, 381, 114992.	2.5	13
2	Geologic Context of the OSIRIS-REx Sample Site from High-resolution Topography and Imaging. <i>Planetary Science Journal</i> , 2022, 3, 75.	3.6	10
3	Crater population on asteroid (101955) Bennu indicates impact armoring and a young surface. <i>Nature Geoscience</i> , 2022, 15, 440-446.	12.9	20
4	The Formation of Terraces on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	14
5	Low surface strength of the asteroid Bennu inferred from impact ejecta deposit. <i>Nature Geoscience</i> , 2022, 15, 447-452.	12.9	19
6	Assessing the Sampleability of Bennu's Surface for the OSIRIS-REx Asteroid Sample Return Mission. <i>Space Science Reviews</i> , 2022, 218, 20.	8.1	12
7	The morphometry of small impact craters on Bennu: Relationships to geologic units, boulders, and impact armoring. <i>Icarus</i> , 2022, 384, 115058.	2.5	3
8	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
9	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
10	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
11	Spectral analysis of craters on (101955) Bennu. <i>Icarus</i> , 2021, 357, 114252.	2.5	6
12	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
13	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
14	Lucy Mission to the Trojan Asteroids: Science Goals. <i>Planetary Science Journal</i> , 2021, 2, 171.	3.6	54
15	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
16	Internal rubble properties of asteroid (101955) Bennu. <i>Icarus</i> , 2021, 370, 114665.	2.5	15
17	Outgassing from the OSIRIS-REx sample return capsule: characterization and mitigation. <i>Acta Astronautica</i> , 2020, 166, 391-399.	3.2	7
18	Digital terrain mapping by the OSIRIS-REx mission. <i>Planetary and Space Science</i> , 2020, 180, 104764.	1.7	81

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19	Hemispherical differences in the shape and topography of asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	10.3	57
20	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
21	The Morphometry of Impact Craters on Bennu. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089672.	4.0	20
22	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
23	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006475.	3.6	60
24	Global shape modeling using the OSIRIS-REx scanning Laser Altimeter. <i>Planetary and Space Science</i> , 2019, 177, 104688.	1.7	32
25	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019, 10, 1291.	12.8	99
26	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019, 3, 352-361.	10.1	132
27	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
28	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
29	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
30	Impact craters on Pluto and Charon indicate a deficit of small Kuiper belt objects. <i>Science</i> , 2019, 363, 955-959.	12.6	116
31	The global surface roughness of 25143 Itokawa. <i>Icarus</i> , 2019, 325, 141-152.	2.5	13
32	Secondary craters and ejecta across the solar system: Populations and effects on impact-crater-based chronologies. <i>Meteoritics and Planetary Science</i> , 2018, 53, 638-671.	1.6	35
33	OSIRIS-REx Contamination Control Strategy and Implementation. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	50
34	Revised recommended methods for analyzing crater size-frequency distributions. <i>Meteoritics and Planetary Science</i> , 2018, 53, 891-931.	1.6	55
35	The OSIRIS-REx Spacecraft and the Touch-and-Go Sample Acquisition Mechanism (TAGSAM). <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	92
36	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017, 212, 925-984.	8.1	426

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37	The OSIRIS-REx Laser Altimeter (OLA) Investigation and Instrument. <i>Space Science Reviews</i> , 2017, 212, 899-924.	8.1	97
38	TAGSAM: A gas-driven system for collecting samples from solar system bodies. , 2016, , .		5
39	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
40	Craters and ejecta on Pluto and Charon: Anticipated results from the New Horizons flyby. <i>Icarus</i> , 2015, 246, 165-182.	2.5	30
41	Geology before Pluto: Pre-encounter considerations. <i>Icarus</i> , 2015, 246, 65-81.	2.5	29
42	Improved techniques for size-frequency distribution analysis in the planetary sciences: Application to blocks on 25143 Itokawa. <i>Icarus</i> , 2015, 247, 77-80.	2.5	10
43	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
44	Constraints on Europa's surface properties from primary and secondary crater morphology. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	21
45	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
46	Secondary craters on Europa and implications for cratered surfaces. <i>Nature</i> , 2005, 437, 1125-1127.	27.8	112