

Bashar Rizk

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

3,481
citations

186265

28
h-index

197818

49
g-index

54
all docs

54
docs citations

54
times ranked

2013
citing authors

#	ARTICLE	IF	CITATIONS
1	Rain, winds and haze during the Huygens probe's descent to Titan's surface. <i>Nature</i> , 2005, 438, 765-778.	27.8	529
2	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017, 212, 925-984.	8.1	426
3	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019, 568, 55-60.	27.8	364
4	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
5	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019, 12, 247-252.	12.9	179
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	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019, 366, .	12.6	129
8	OCAMS: The OSIRIS-REx Camera Suite. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	119
9	Sublimation and reformation of icy grains in the primitive solar nebula. <i>Icarus</i> , 1991, 94, 333-344.	2.5	104
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	Variations in color and reflectance on the surface of asteroid (101955) Bennu. <i>Science</i> , 2020, 370, .	12.6	84
12	Asteroid (101955) Bennu's weak boulders and thermally anomalous equator. <i>Science Advances</i> , 2020, 6, .	10.3	83
13	DISR imaging and the geometry of the descent of the Huygens probe within Titan's atmosphere. <i>Planetary and Space Science</i> , 2007, 55, 1896-1935.	1.7	70
14	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013, 226, 663-670.	2.5	63
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	In situ evidence of thermally induced rock breakdown widespread on Bennu's surface. <i>Nature Communications</i> , 2020, 11, 2913.	12.8	62
17	The Descent Imager/Spectral Radiometer (DISR) Experiment on the Huygens Entry Probe of Titan. <i>Space Science Reviews</i> , 2002, 104, 469-551.	8.1	58
18	Hemispherical differences in the shape and topography of asteroid (101955) Bennu. <i>Science Advances</i> , 2020, 6, .	10.3	57

#	ARTICLE	IF	CITATIONS
19	Ground and In-Flight Calibration of the OSIRIS-REx Camera Suite. <i>Space Science Reviews</i> , 2020, 216, 12.	8.1	57
20	Exogenic basalt on asteroid (101955) Bennu. <i>Nature Astronomy</i> , 2021, 5, 31-38.	10.1	57
21	OSIRIS-REx Contamination Control Strategy and Implementation. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	50
22	A high-resolution global basemap of (101955) Bennu. <i>Icarus</i> , 2021, 357, 113690.	2.5	41
23	Spacecraft sample collection and subsurface excavation of asteroid (101955) Bennu. <i>Science</i> , 2022, 377, 285-291.	12.6	39
24	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. <i>Astronomical Journal</i> , 2020, 160, 14.	4.7	34
25	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
26	Near-zero cohesion and loose packing of Bennu's near subsurface revealed by spacecraft contact. <i>Science Advances</i> , 2022, 8, .	10.3	31
27	Effects of size-dependent emissivity on maximum temperatures during micrometeorite entry. <i>Journal of Geophysical Research</i> , 1991, 96, 1303-1314.	3.3	30
28	Thermal evolution of Titan's atmosphere. <i>Icarus</i> , 1989, 80, 370-389.	2.5	29
29	Disk-resolved photometric modeling and properties of asteroid (101955) Bennu. <i>Icarus</i> , 2021, 357, 113724.	2.5	29
30	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
31	Photometry of Particles Ejected From Active Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2020JE006381.	3.6	23
32	Solar heating of the Uranian mesopause by dust of ring origin. <i>Icarus</i> , 1990, 88, 429-447.	2.5	18
33	The Use of Digital Terrain Models for Natural Feature Tracking at Asteroid Bennu. <i>Planetary Science Journal</i> , 2022, 3, 100.	3.6	17
34	Autonomous Navigation Performance Using Natural Feature Tracking during the OSIRIS-REx Touch-and-Go Sample Collection Event. <i>Planetary Science Journal</i> , 2022, 3, 101.	3.6	15
35	A high-resolution normal albedo map of asteroid (101955) Bennu. <i>Icarus</i> , 2021, 355, 114133.	2.5	14
36	The Formation of Terraces on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	3.6	14

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37	Alignment of fractures on Bennu's boulders indicative of rapid asteroid surface evolution. <i>Nature Geoscience</i> , 2022, 15, 453-457.	12.9	11
38	Assessing stereophotoclinometry by modeling a physical wall representing asteroid Bennu. <i>Planetary and Space Science</i> , 2020, 193, 105077.	1.7	10
39	Ground Testing of Digital Terrain Models to Prepare for OSIRIS-REx Autonomous Vision Navigation Using Natural Feature Tracking. <i>Planetary Science Journal</i> , 2022, 3, 104.	3.6	8
40	Outgassing from the OSIRIS-REx sample return capsule: characterization and mitigation. <i>Acta Astronautica</i> , 2020, 166, 391-399.	3.2	7
41	OSIRIS-REx low-velocity particles during outbound cruise. <i>Advances in Space Research</i> , 2019, 63, 672-691.	2.6	6
42	Small comets: Naked-eye visibility. <i>Geophysical Research Letters</i> , 1997, 24, 3121-3124.	4.0	5
43	Private life of an integrating sphere: the radiant homogeneity of the Descent Imager's Spectral Radiometer calibration sphere. <i>Applied Optics</i> , 2001, 40, 2095.	2.1	5
44	Characterization of Exogenic Boulders on the Near-Earth Asteroid (101955) Bennu from OSIRIS-REx Color Images. <i>Planetary Science Journal</i> , 2021, 2, 114.	3.6	5
45	Concept of Operations for OSIRIS-REx Optical Navigation Image Planning. , 2022, , .		5
46	Rounded boulders on Itokawa as clues to geological processes in the early solar system. <i>Planetary and Space Science</i> , 2015, 119, 181-184.	1.7	4
47	Regional Photometric Modeling of Asteroid (101955) Bennu. <i>Planetary Science Journal</i> , 2021, 2, 124.	3.6	4
48	PHOTOGRAMMETRIC PROCESSING OF OSIRIS-REx IMAGES OF ASTEROID (101955) BENNU. <i>ISPRS Annals of the Photogrammetry, Remote Sensing and Spatial Information Sciences</i> , 0, V-3-2020, 587-594.	0.0	4
49	Development and Flight Performance of the Autonomous Navigation Feature Catalog for OSIRIS-REx Asteroid Sample Collection. , 2022, , .		2
50	Cross-Instrument Comparison of MapCam and OVIRS on OSIRIS-REx. <i>Space Science Reviews</i> , 2022, 218, 5.	8.1	2
51	Successful Use of Microporous Polytetrafluoroethylene Flexible Thin Sheets in NASA's OSIRIS-REx Mission. , 2019, , .		0