

Daniel J Scheeres

List of Publications by Citations

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452
papers

13,476
citations

59
h-index

98
g-index

504
ext. papers

16,039
ext. citations

4.5
avg, IF

6.94
L-index

#	Paper	IF	Citations
452	The rubble-pile asteroid Itokawa as observed by Hayabusa. <i>Science</i> , 2006 , 312, 1330-4	33.3	621
451	Touchdown of the Hayabusa spacecraft at the Muses Sea on Itokawa. <i>Science</i> , 2006 , 312, 1350-3	33.3	275
450	OSIRIS-REx: Sample Return from Asteroid (101955) Bennu. <i>Space Science Reviews</i> , 2017 , 212, 925-984	7.5	268
449	Hayabusa2 arrives at the carbonaceous asteroid 162173 Ryugu-A spinning top-shaped rubble pile. <i>Science</i> , 2019 , 364, 268-272	33.3	254
448	Exterior gravitation of a polyhedron derived and compared with harmonic and mascon gravitation representations of asteroid 4769 Castalia. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1997 , 65, 313	1.4	250
447	Orbits Close to Asteroid 4769 Castalia. <i>Icarus</i> , 1996 , 121, 67-87	3.8	225
446	The unexpected surface of asteroid (101955) Bennu. <i>Nature</i> , 2019 , 568, 55-60	50.4	219
445	Regolith migration and sorting on asteroid Itokawa. <i>Science</i> , 2007 , 316, 1011-4	33.3	212
444	Radar imaging of binary near-Earth asteroid (66391) 1999 KW4. <i>Science</i> , 2006 , 314, 1276-80	33.3	207
443	Scaling forces to asteroid surfaces: The role of cohesion. <i>Icarus</i> , 2010 , 210, 968-984	3.8	200
442	Determination of Shape, Gravity, and Rotational State of Asteroid 433 Eros. <i>Icarus</i> , 2002 , 155, 3-17	3.8	184
441	Mass and local topography measurements of Itokawa by Hayabusa. <i>Science</i> , 2006 , 312, 1344-7	33.3	182
440	Dynamics about Uniformly Rotating Triaxial Ellipsoids: Applications to Asteroids. <i>Icarus</i> , 1994 , 110, 225-238		175
439	Characterizing and navigating small bodies with imaging data. <i>Meteoritics and Planetary Science</i> , 2008 , 43, 1049-1061	2.8	152
438	Radar observations of asteroid 216 kleopatra. <i>Science</i> , 2000 , 288, 836-9	33.3	151
437	Estimating the mass of asteroid 253 mathilde from tracking data during the NEAR flyby. <i>Science</i> , 1997 , 278, 2106-9	33.3	148
436	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	3.8	147

435	Formation of asteroid pairs by rotational fission. <i>Nature</i> , 2010 , 466, 1085-8	50.4	144
434	Dynamics of Orbits Close to Asteroid 4179 Toutatis. <i>Icarus</i> , 1998 , 132, 53-79	3.8	144
433	The strength of regolith and rubble pile asteroids. <i>Meteoritics and Planetary Science</i> , 2014 , 49, 788-811	2.8	143
432	Dynamics of rotationally fissioned asteroids: Source of observed small asteroid systems. <i>Icarus</i> , 2011 , 214, 161-178	3.8	142
431	Radio science results during the NEAR-shoemaker spacecraft rendezvous with eros. <i>Science</i> , 2000 , 289, 2085-8	33.3	140
430	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	2.8	135
429	Evaluation of the Dynamic Environment of an Asteroid: Applications to 433 Eros. <i>Journal of Guidance, Control, and Dynamics</i> , 2000 , 23, 466-475	2.1	134
428	Disruption of kilometre-sized asteroids by energetic collisions. <i>Nature</i> , 1998 , 393, 437-440	50.4	132
427	Spin rate of asteroid (54509) 2000 PH5 increasing due to the YORP effect. <i>Science</i> , 2007 , 316, 274-7	33.3	127
426	Rotational fission of contact binary asteroids. <i>Icarus</i> , 2007 , 189, 370-385	3.8	125
425	Nonlinear Mapping of Gaussian Statistics: Theory and Applications to Spacecraft Trajectory Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 1367-1375	2.1	120
424	Craters, boulders and regolith of (101955) Bennu indicative of an old and dynamic surface. <i>Nature Geoscience</i> , 2019 , 12, 242-246	18.3	114
423	Orbital Motion in Strongly Perturbed Environments 2012 ,		113
422	Control of Hovering Spacecraft Near Small Bodies: Application to Asteroid 25143 Itokawa. <i>Journal of Guidance, Control, and Dynamics</i> , 2005 , 28, 343-354	2.1	111
421	Shape of (101955) Bennu indicative of a rubble pile with internal stiffness. <i>Nature Geoscience</i> , 2019 , 12, 247-252	18.3	108
420	In search of the source of asteroid (101955) Bennu: Applications of the stochastic YORP model. <i>Icarus</i> , 2015 , 247, 191-217	3.8	101
419	Dynamical configuration of binary near-Earth asteroid (66391) 1999 KW4. <i>Science</i> , 2006 , 314, 1280-3	33.3	98
418	The dynamic geophysical environment of (101955) Bennu based on OSIRIS-REx measurements. <i>Nature Astronomy</i> , 2019 , 3, 352-361	12.1	90

417	The dynamical evolution of uniformly rotating asteroids subject to YORP. <i>Icarus</i> , 2007 , 188, 430-450	3.8	89
416	Stability Analysis of Planetary Satellite Orbiters: Application to the Europa Orbiter. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 778-787	2.1	83
415	Orbit Mechanics About Asteroids and Comets. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 987-997		80
414	Stabilizing Motion Relative to an Unstable Orbit: Applications to Spacecraft Formation Flight. <i>Journal of Guidance, Control, and Dynamics</i> , 2003 , 26, 62-73	2.1	77
413	Episodes of particle ejection from the surface of the active asteroid (101955) Bennu. <i>Science</i> , 2019 , 366,	33.3	77
412	Stability of the planar full 2-body problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2009 , 104, 103-128		76
411	Control of Hovering Spacecraft Using Altimetry. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 786-795	2.1	76
410	Effects of Gravitational Interactions on Asteroid Spin States. <i>Icarus</i> , 2000 , 147, 106-118	3.8	76
409	The role of cohesive forces in particle launching on the Moon and asteroids. <i>Planetary and Space Science</i> , 2011 , 59, 1758-1768	2	75
408	Radar observations and a physical model of Asteroid 1580 Betulia. <i>Icarus</i> , 2007 , 186, 152-177	3.8	73
407	Orbital mechanics about small bodies. <i>Acta Astronautica</i> , 2012 , 72, 1-14	2.9	71
406	Numerical determination of stability regions for orbital motion in uniformly rotating second degree and order gravity fields. <i>Planetary and Space Science</i> , 2004 , 52, 685-692	2	71
405	Solving Optimal Continuous Thrust Rendezvous Problems with Generating Functions. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 321-331	2.1	70
404	The geophysical environment of Bennu. <i>Icarus</i> , 2016 , 276, 116-140	3.8	70
403	High-resolution model of Asteroid 4179 Toutatis. <i>Icarus</i> , 2003 , 161, 346-355	3.8	68
402	Stability in the Full Two-Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2002 , 83, 155-169	1.4	67
401	The operational environment and rotational acceleration of asteroid (101955) Bennu from OSIRIS-REx observations. <i>Nature Communications</i> , 2019 , 10, 1291	17.4	65
400	DEM simulation of rotation-induced reshaping and disruption of rubble-pile asteroids. <i>Icarus</i> , 2012 , 218, 876-894	3.8	64

399	Radar observations and the shape of near-Earth asteroid 2008 EV5. <i>Icarus</i> , 2011 , 212, 649-660	3.8	63
398	Multiple Gravity Assists, Capture, and Escape in the Restricted Three-Body Problem. <i>SIAM Journal on Applied Dynamical Systems</i> , 2007 , 6, 576-596	2.8	62
397	Landslides and Mass shedding on spinning spheroidal asteroids. <i>Icarus</i> , 2015 , 247, 1-17	3.8	61
396	Solving Relative Two-Point Boundary Value Problems: Spacecraft Formulation Flight Transfers Application. <i>Journal of Guidance, Control, and Dynamics</i> , 2004 , 27, 693-704	2.1	61
395	SIMULATING ASTEROID RUBBLE PILES WITH A SELF-GRAVITATING SOFT-SPHERE DISTINCT ELEMENT METHOD MODEL. <i>Astrophysical Journal</i> , 2011 , 727, 120	4.7	59
394	Escaping Trajectories in the Hill Three-Body Problem and Applications. <i>Journal of Guidance, Control, and Dynamics</i> , 2003 , 26, 224-232	2.1	59
393	INTERNAL STRUCTURE OF ASTEROIDS HAVING SURFACE SHEDDING DUE TO ROTATIONAL INSTABILITY. <i>Astrophysical Journal</i> , 2015 , 808, 63	4.7	58
392	On the Milankovitch orbital elements for perturbed Keplerian motion. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014 , 118, 197-220	1.4	58
391	Fission and reconfiguration of bilobate comets as revealed by 67P/Churyumov-Gerasimenko. <i>Nature</i> , 2016 , 534, 352-5	50.4	56
390	Radar observations of asteroid 25143 Itokawa (1998 SF36). <i>Meteoritics and Planetary Science</i> , 2004 , 39, 407-424	2.8	56
389	The effect of YORP on Itokawa. <i>Icarus</i> , 2007 , 188, 425-429	3.8	55
388	Radar Observations and Physical Model of Asteroid 6489 Golevka. <i>Icarus</i> , 2000 , 148, 37-51	3.8	55
387	Solar Sail Orbit Operations at Asteroids. <i>Journal of Spacecraft and Rockets</i> , 2001 , 38, 279-286	1.5	54
386	Lightcurve, Color and Phase Function Photometry of the OSIRIS-REx Target Asteroid (101955) Bennu. <i>Icarus</i> , 2013 , 226, 663-670	3.8	53
385	Correlation of Optical Observations of Objects in Earth Orbit. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 194-209	2.1	53
384	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2015 , 51, 506-520	3.7	52
383	CONSTRAINTS ON THE PHYSICAL PROPERTIES OF MAIN BELT COMET P/2013 R3 FROM ITS BREAKUP EVENT. <i>Astrophysical Journal Letters</i> , 2014 , 789, L12	7.9	52
382	Generalized Model for Solar Sails. <i>Journal of Spacecraft and Rockets</i> , 2005 , 42, 182-185	1.5	52

381	Analytical Nonlinear Propagation of Uncertainty in the Two-Body Problem. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 497-509	2.1	51
380	Boundedness of Spacecraft Hovering Under Dead-Band Control in Time-Invariant Systems. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 601-610	2.1	51
379	Simulation and analysis of the dynamics of binary near-Earth Asteroid (66391) 1999 KW4. <i>Icarus</i> , 2008 , 194, 410-435	3.8	50
378	Spacecraft Dynamics in the Vicinity of a Comet. <i>Journal of the Astronautical Sciences</i> , 2002 , 50, 35-52	1.1	50
377	Radar and optical observations and physical modeling of triple near-Earth Asteroid (136617) 1994 CC. <i>Icarus</i> , 2011 , 216, 241-256	3.8	49
376	Design of Science Orbits About Planetary Satellites: Application to Europa. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 1147-1158	2.1	49
375	Determination of optimal feedback terminal controllers for general boundary conditions using generating functions. <i>Automatica</i> , 2006 , 42, 869-875	5.7	49
374	Surface Gravity Fields for Asteroids and Comets. <i>Journal of Guidance, Control, and Dynamics</i> , 2013 , 36, 362-374	2.1	48
373	Radar Observations of Asteroid 1620 Geographos. <i>Icarus</i> , 1996 , 121, 46-66	3.8	48
372	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	3.8	47
371	Relative Equilibria for General Gravity Fields in the Sphere-Restricted Full 2-Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2006 , 94, 317-349	1.4	47
370	Spacecraft Motion About Slowly Rotating Asteroids. <i>Journal of Guidance, Control, and Dynamics</i> , 2002 , 25, 765-775	2.1	47
369	Disruption patterns of rotating self-gravitating aggregates: A survey on angle of friction and tensile strength. <i>Icarus</i> , 2016 , 271, 453-471	3.8	45
368	Contact Motion on Surface of Asteroid. <i>Journal of Spacecraft and Rockets</i> , 2014 , 51, 1857-1871	1.5	45
367	The Restricted Hill Four-Body Problem with Applications to the Earth-Moon-Sun System. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1998 , 70, 75-98	1.4	45
366	ROSETTA mission: satellite orbits around a cometary nucleus. <i>Planetary and Space Science</i> , 1998 , 46, 649-671		45
365	STRESS AND FAILURE ANALYSIS OF RAPIDLY ROTATING ASTEROID (29075) 1950 DA. <i>Astrophysical Journal Letters</i> , 2015 , 798, L8	7.9	44
364	Simulation of the full two rigid body problem using polyhedral mutual potential and potential derivatives approach. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2006 , 96, 317-339	1.4	44

363	Almost global asymptotic tracking control for spacecraft body-fixed hovering over an asteroid. <i>Aerospace Science and Technology</i> , 2014 , 38, 105-115	4.9	43
362	New Solar Radiation Pressure Force Model for Navigation. <i>Journal of Guidance, Control, and Dynamics</i> , 2010 , 33, 1418-1428	2.1	42
361	Satellite Dynamics about Small Bodies: Averaged Solar Radiation Pressure Effects. <i>Journal of the Astronautical Sciences</i> , 1999 , 47, 25-46	1.1	42
360	Radar and photometric observations and shape modeling of contact binary near-Earth Asteroid (8567) 1996 HW1. <i>Icarus</i> , 2011 , 214, 210-227	3.8	41
359	Long-term dynamics of high area-to-mass ratio objects in high-Earth orbit. <i>Advances in Space Research</i> , 2013 , 52, 1545-1560	2.4	40
358	Combined effect of YORP and collisions on the rotation rate of small Main Belt asteroids. <i>Icarus</i> , 2011 , 214, 622-631	3.8	40
357	Secular orbit variation due to solar radiation effects: a detailed model for BYORP. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010 , 106, 261-300	1.4	40
356	Mutual Potential of Homogeneous Polyhedra. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2005 , 91, 337-349	1.4	40
355	Optimal transfers between unstable periodic orbits using invariant manifolds. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2011 , 109, 241-264	1.4	39
354	LONG-TERM STABLE EQUILIBRIA FOR SYNCHRONOUS BINARY ASTEROIDS. <i>Astrophysical Journal Letters</i> , 2011 , 736, L19	7.9	39
353	Nonlinear Semi-Analytic Methods for Trajectory Estimation. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 1668-1676	2.1	39
352	Geometric mechanics and the dynamics of asteroid pairs. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1017, 11-38	6.5	39
351	Dynamics of levitating dust particles near asteroids and the Moon. <i>Journal of Geophysical Research E: Planets</i> , 2013 , 118, 116-125	4.1	38
350	Detailed prediction for the BYORP effect on binary near-Earth Asteroid (66391) 1999 KW4 and implications for the binary population. <i>Icarus</i> , 2010 , 209, 494-509	3.8	37
349	Stability of Surface Motion on a Rotating Ellipsoid. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2003 , 87, 263-290	1.4	37
348	Stability Bounds for Three-Dimensional Motion Close to Asteroids. <i>Journal of the Astronautical Sciences</i> , 2002 , 50, 389-409	1.1	37
347	The use of invariant manifolds for transfers between unstable periodic orbits of different energies. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010 , 107, 471-485	1.4	36
346	Effect of density inhomogeneity on YORP: The case of Itokawa. <i>Icarus</i> , 2008 , 198, 125-129	3.8	36

345	Energy and stability in the Full Two Body Problem. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008 , 100, 63-91	1.4	36
344	Robust Capture and Transfer Trajectories for Planetary Satellite Orbiters. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 342-353	2.1	36
343	The Yarkovsky and YORP Effects 2015 ,		36
342	Small body surface gravity fields via spherical harmonic expansions. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014 , 119, 169-206	1.4	35
341	Restricted Full Three-Body Problem: Application to Binary System 1999 KW4. <i>Journal of Guidance, Control, and Dynamics</i> , 2008 , 31, 162-171	2.1	35
340	Stability of relative equilibria in the full two-body problem. <i>Annals of the New York Academy of Sciences</i> , 2004 , 1017, 81-94	6.5	35
339	Stability of Binary Asteroids. <i>Icarus</i> , 2002 , 159, 271-283	3.8	35
338	Abrupt alteration of Asteroid 2004 MN4's spin state during its 2029 Earth flyby. <i>Icarus</i> , 2005 , 178, 281-283	3.8	35
337	Global Patterns of Recent Mass Movement on Asteroid (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006475	4.1	35
336	Correlation of Optical Observations of Earth-Orbiting Objects and Initial Orbit Determination. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 208-221	2.1	34
335	Physical modeling of near-Earth Asteroid (29075) 1950 DA. <i>Icarus</i> , 2007 , 190, 608-621	3.8	34
334	Coupled orbit-attitude dynamics and relative state estimation of spacecraft near small Solar System bodies. <i>Advances in Space Research</i> , 2016 , 57, 1747-1761	2.4	32
333	ANALYSIS OF ASTEROID (216) KLEOPATRA USING DYNAMICAL AND STRUCTURAL CONSTRAINTS. <i>Astrophysical Journal</i> , 2014 , 780, 160	4.7	32
332	Evolution of NEO rotation rates due to close encounters with Earth and Venus. <i>Icarus</i> , 2004 , 170, 312-323	3.8	32
331	Mutual potential between two rigid bodies with arbitrary shapes and mass distributions. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2017 , 127, 369-395	1.4	31
330	Computing the effects of YORP on the spin rate distribution of the NEO population. <i>Icarus</i> , 2009 , 202, 95-103	3.8	31
329	Evolution of Comet Nucleus Rotation. <i>Icarus</i> , 2002 , 157, 205-218	3.8	31
328	Asteroid clusters similar to asteroid pairs. <i>Icarus</i> , 2018 , 304, 110-126	3.8	30

327	Effect of rotational disruption on the size-frequency distribution of the Main Belt asteroid population. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2014 , 439, L95-L99	4.3	30
326	Rotational dynamics of a solar system body under solar radiation torques. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2008 , 101, 69-103	1.4	29
325	The Mechanics of Moving Asteroids 2004 ,		29
324	Experimental demonstration of the role of cohesion in electrostatic dust lofting. <i>Geophysical Research Letters</i> , 2013 , 40, 1038-1042	4.9	28
323	Reduction of Low-Thrust Continuous Controls for Trajectory Dynamics. <i>Journal of Guidance, Control, and Dynamics</i> , 2009 , 32, 780-787	2.1	28
322	Multi-wavelength observations of Asteroid 2100 Ra-Shalom. <i>Icarus</i> , 2008 , 193, 20-38	3.8	28
321	The Western Bulge of 162173 Ryugu Formed as a Result of a Rotationally Driven Deformation Process. <i>Astrophysical Journal Letters</i> , 2019 , 874, L10	7.9	27
320	Landmark Navigation Studies and Target Characterization in the Hayabusa Encounter with Itokawa 2006 ,		27
319	The Actual Dynamical Environment About Itokawa 2006 ,		27
318	The Restricted Hill Full 4-Body Problem: application to spacecraft motion about binary asteroids. <i>Dynamical Systems</i> , 2005 , 20, 23-44	0.6	27
317	The OSIRIS-REx Radio Science Experiment at Bennu. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	26
316	Bounded relative orbits about asteroids for formation flying and applications. <i>Acta Astronautica</i> , 2016 , 123, 364-375	2.9	26
315	Periodic Orbits in Rotating Second Degree and Order Gravity Fields. <i>Research in Astronomy and Astrophysics</i> , 2008 , 8, 108-118		26
314	General dynamics in the Restricted Full Three Body Problem. <i>Acta Astronautica</i> , 2008 , 62, 563-576	2.9	26
313	Spacecraft Formation Dynamics and Design. <i>Journal of Guidance, Control, and Dynamics</i> , 2006 , 29, 121-133	3.1	26
312	Trajectory Estimation for Particles Observed in the Vicinity of (101955) Bennu. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2019JE006363	4.1	26
311	Rotational evolution of self-gravitating aggregates with cores of variable strength. <i>Planetary and Space Science</i> , 2018 , 157, 39-47	2	25
310	Rotationally induced failure of irregularly shaped asteroids. <i>Icarus</i> , 2019 , 317, 354-364	3.8	25

309	Object Correlation, Maneuver Detection, and Characterization Using Control Distance Metrics. <i>Journal of Guidance, Control, and Dynamics</i> , 2012 , 35, 1312-1325	2.1	25
308	Statistical Analysis of Control Maneuvers in Unstable Orbital Environments. <i>Journal of Guidance, Control, and Dynamics</i> , 2003 , 26, 758-769	2.1	25
307	Estimating asteroid density distributions from shape and gravity information. <i>Planetary and Space Science</i> , 2000 , 48, 965-971	2	25
306	Numerical investigation of the dynamical environment of 65803 Didymos. <i>Advances in Space Research</i> , 2017 , 59, 1304-1320	2.4	24
305	Radar observations and a physical model of binary near-Earth asteroid 65803 Didymos, target of the DART mission. <i>Icarus</i> , 2020 , 348, 113777	3.8	24
304	SPIN STATE AND MOMENT OF INERTIA CHARACTERIZATION OF 4179 TOUTATIS. <i>Astronomical Journal</i> , 2013 , 146, 95	4.9	24
303	Solar-Sail Navigation: Estimation of Force, Moments, and Optical Parameters. <i>Journal of Guidance, Control, and Dynamics</i> , 2007 , 30, 660-668	2.1	24
302	Radar observations of Itokawa in 2004 and improved shape estimation. <i>Meteoritics and Planetary Science</i> , 2005 , 40, 1563-1574	2.8	24
301	The Effect of C22 on Orbit Energy and Angular Momentum. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1999 , 73, 339-348	1.4	24
300	On-Orbit Operational Range Computation Using Gauss's Variational Equations with J2 Perturbations. <i>Journal of Guidance, Control, and Dynamics</i> , 2014 , 37, 608-622	2.1	23
299	Minimum energy configurations in the N-body problem and the celestial mechanics of granular systems. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2012 , 113, 291-320	1.4	23
298	Stability of equilibrium points in the restricted full three-body problem. <i>Acta Astronautica</i> , 2007 , 60, 141-152	1.5	23
297	Secular Motion in a 2nd Degree and Order-Gravity Field with no Rotation. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001 , 79, 183-200	1.4	23
296	Asteroid pairs: A complex picture. <i>Icarus</i> , 2019 , 333, 429-463	3.8	22
295	Changes in Rotational Angular Momentum due to Gravitational Interactions between Two Finite Bodies*. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001 , 81, 39-44	1.4	22
294	Development of a Target Marker for Landing on Asteroids. <i>Journal of Spacecraft and Rockets</i> , 2001 , 38, 601-608	1.5	22
293	Deconstructing Castalia: Evaluating a Postimpact State. <i>Icarus</i> , 1999 , 139, 383-386	3.8	22
292	Detection of Rotational Acceleration of Bennu Using HST Light Curve Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 1956-1962	4.9	21

291	Interpreting the Cratering Histories of Bennu, Ryugu, and Other Spacecraft-explored Asteroids. <i>Astronomical Journal</i> , 2020 , 160, 14	4.9	21
290	Prearrival Deployment Analysis of Rovers on Hayabusa2 Asteroid Explorer. <i>Journal of Spacecraft and Rockets</i> , 2018 , 55, 797-817	1.5	21
289	A THREE-DIMENSIONAL MODEL OF TANGENTIAL YORP. <i>Astrophysical Journal</i> , 2014 , 794, 22	4.7	21
288	The classical Laplace plane as a stable disposal orbit for geostationary satellites. <i>Advances in Space Research</i> , 2014 , 53, 1219-1228	2.4	21
287	Physical properties of near-Earth Asteroid (33342) 1998 WT24. <i>Icarus</i> , 2008 , 195, 614-621	3.8	21
286	Heterogeneous mass distribution of the rubble-pile asteroid (101955) Bennu. <i>Science Advances</i> , 2020 , 6,	14.3	21
285	. <i>IEEE Transactions on Aerospace and Electronic Systems</i> , 2012 , 48, 1583-1600	3.7	20
284	FORMATION OF THE WIDE ASYNCHRONOUS BINARY ASTEROID POPULATION. <i>Astrophysical Journal</i> , 2014 , 780, 60	4.7	20
283	Radar observations and a physical model of Asteroid 4660 Nereus, a prime space mission target. <i>Icarus</i> , 2009 , 201, 153-166	3.8	20
282	Minimum energy asteroid reconfigurations and catastrophic disruptions. <i>Planetary and Space Science</i> , 2009 , 57, 154-164	2	20
281	Influence of Unstable Manifolds on Orbit Uncertainty. <i>Journal of Guidance, Control, and Dynamics</i> , 2001 , 24, 573-585	2.1	20
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