

Josef Aurech

List of Publications by Year in descending order

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94
papers

4,771
citations

126907

33
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4722
citing authors

#	ARTICLE	IF	CITATIONS
1	LSST: From Science Drivers to Reference Design and Anticipated Data Products. <i>Astrophysical Journal</i> , 2019, 873, 111.	4.5	1,744
2	The global shape, density and rotation of Comet 67P/Churyumov-Gerasimenko from preperihelion Rosetta/OSIRIS observations. <i>Icarus</i> , 2016, 277, 257-278.	2.5	252
3	DAMIT: a database of asteroid models. <i>Astronomy and Astrophysics</i> , 2010, 513, A46.	5.1	213
4	Acceleration of the rotation of asteroid 1862 Apollo by radiation torques. <i>Nature</i> , 2007, 446, 420-422.	27.8	120
5	A study of asteroid pole-latitude distribution based on an extended set of shape models derived by the lightcurve inversion method. <i>Astronomy and Astrophysics</i> , 2011, 530, A134.	5.1	114
6	Combining asteroid models derived by lightcurve inversion with asteroidal occultation silhouettes. <i>Icarus</i> , 2011, 214, 652-670.	2.5	92
7	The tumbling spin state of (99942) Apophis. <i>Icarus</i> , 2014, 233, 48-60.	2.5	87
8	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
9	Thermo-physical properties of 162173 (1999 JU ₃), a potential flyby and rendezvous target for interplanetary missions. <i>Astronomy and Astrophysics</i> , 2011, 525, A145.	5.1	75
10	Volumes and bulk densities of forty asteroids from ADAM shape modeling. <i>Astronomy and Astrophysics</i> , 2017, 601, A114.	5.1	67
11	Detection of the YORP effect in asteroid (1620) Geographos. <i>Astronomy and Astrophysics</i> , 2008, 489, L25-L28.	5.1	64
12	Asteroids' physical models from combined dense and sparse photometry and scaling of the YORP effect by the observed obliquity distribution. <i>Astronomy and Astrophysics</i> , 2013, 551, A67.	5.1	59
13	The Thousand Asteroid Light Curve Survey. <i>Icarus</i> , 2009, 204, 145-171.	2.5	57
14	New and updated convex shape models of asteroids based on optical data from a large collaboration network. <i>Astronomy and Astrophysics</i> , 2016, 586, A108.	5.1	57
15	Thermophysical modeling of asteroids from WISE thermal infrared data – Significance of the shape model and the pole orientation uncertainties. <i>Icarus</i> , 2015, 256, 101-116.	2.5	56
16	THE PUZZLING MUTUAL ORBIT OF THE BINARY TROJAN ASTEROID (624) HEKTOR. <i>Astrophysical Journal Letters</i> , 2014, 783, L37.	8.3	54
17	ADAM: a general method for using various data types in asteroid reconstruction. <i>Astronomy and Astrophysics</i> , 2015, 576, A8.	5.1	52
18	Sizes of main-belt asteroids by combining shape models and Keck adaptive optics observations. <i>Icarus</i> , 2013, 226, 1045-1057.	2.5	51

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19	VLT/SPHERE imaging survey of the largest main-belt asteroids: Final results and synthesis. <i>Astronomy and Astrophysics</i> , 2021, 654, A56.	5.1	50
20	Photometry and models of eight near-Earth asteroids. <i>Icarus</i> , 2004, 167, 178-196.	2.5	49
21	Asteroid models from combined sparse and dense photometric data. <i>Astronomy and Astrophysics</i> , 2009, 493, 291-297.	5.1	49
22	Shape modeling technique KOALA validated by ESA Rosetta at (21) Lutetia. <i>Planetary and Space Science</i> , 2012, 66, 200-212.	1.7	49
23	Asteroid pairs: A complex picture. <i>Icarus</i> , 2019, 333, 429-463.	2.5	47
24	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
25	Photometric signatures of highly nonconvex and binary asteroids. <i>Astronomy and Astrophysics</i> , 2003, 404, 709-714.	5.1	46
26	New photometric observations of asteroids (1862) ĀApollo and (25143) ĀItokawa Ā€“ an analysis of YORP effect. <i>Astronomy and Astrophysics</i> , 2008, 488, 345-350.	5.1	45
27	Asteroid models from the Lowell photometric database. <i>Astronomy and Astrophysics</i> , 2016, 587, A48.	5.1	45
28	The shape and rotation of asteroid 2008 TC ₃ . <i>Meteoritics and Planetary Science</i> , 2010, 45, 1804-1811.	1.6	44
29	Analysis of the rotation period of asteroids (1865) ĀCerberus, (2100) ĀRa-Shalom, and (3103) ĀEger Ā€“ search for the YORP effect. <i>Astronomy and Astrophysics</i> , 2012, 547, A10.	5.1	43
30	Thermophysical modeling of main-belt asteroids from WISE thermal data. <i>Icarus</i> , 2018, 309, 297-337.	2.5	40
31	A basin-free spherical shape as an outcome of a giant impact on asteroid Hygiea. <i>Nature Astronomy</i> , 2020, 4, 136-141.	10.1	38
32	The binary near-Earth Asteroid (175706) 1996 FG3 Ā€“ An observational constraint on its orbital evolution. <i>Icarus</i> , 2015, 245, 56-63.	2.5	35
33	An anisotropic distribution of spin vectors in asteroid families. <i>Astronomy and Astrophysics</i> , 2013, 559, A134.	5.1	34
34	Physical and dynamical properties of the main belt triple Asteroid (87) Sylvania. <i>Icarus</i> , 2014, 239, 118-130.	2.5	32
35	The young Datura asteroid family. <i>Astronomy and Astrophysics</i> , 2017, 598, A91.	5.1	31
36	New insights on the binary Asteroid 121 Hermione. <i>Icarus</i> , 2009, 203, 88-101.	2.5	30

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37	The impact crater at the origin of the Julia family detected with VLT/SPHERE?. <i>Astronomy and Astrophysics</i> , 2018, 618, A154.	5.1	29
38	Asteroid Models from the Pan-STARRS Photometry. <i>Earth, Moon and Planets</i> , 2006, 97, 179-187.	0.6	28
39	Asteroid models reconstructed from the Lowell Photometric Database and WISE data. <i>Astronomy and Astrophysics</i> , 2018, 617, A57.	5.1	28
40	Spin states of asteroids in the Eos collisional family. <i>Icarus</i> , 2018, 299, 84-96.	2.5	27
41	Datura family: the 2009 update. <i>Astronomy and Astrophysics</i> , 2009, 507, 495-504.	5.1	27
42	YORP and Yarkovsky effects in asteroids (1685) Toro, (2100) Ra-Shalom, (3103) Eger, and (161989) Cacus. <i>Astronomy and Astrophysics</i> , 2018, 609, A86.	5.1	26
43	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
44	Adaptive optics and lightcurve data of asteroids: twenty shape models and information content analysis. <i>Astronomy and Astrophysics</i> , 2017, 607, A117.	5.1	25
45	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
46	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
47	VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno. <i>Astronomy and Astrophysics</i> , 2015, 581, L3.	5.1	24
48	SPIN VECTOR AND SHAPE OF (6070) RHEINLAND AND THEIR IMPLICATIONS. <i>Astronomical Journal</i> , 2011, 142, 159.	4.7	23
49	The thermal emission from boulders on (25143) Itokawa and general implications for the YORP effect. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 450, 2104-2115.	4.4	22
50	Physical models of ten asteroids from an observers' collaboration network. <i>Astronomy and Astrophysics</i> , 2007, 465, 331-337.	5.1	21
51	Detailed Analysis of the Asteroid Pair (6070) Rheinland and (54827) 2001 NQ8. <i>Astronomical Journal</i> , 2017, 153, 270.	4.7	21
52	Asteroid models reconstructed from ATLAS photometry. <i>Astronomy and Astrophysics</i> , 2020, 643, A59.	5.1	21
53	Characteristics and large bulk density of the C-type main-belt triple asteroid (93) Minerva. <i>Icarus</i> , 2013, 224, 178-191.	2.5	20
54	Distribution of spin-axes longitudes and shape elongations of main-belt asteroids. <i>Astronomy and Astrophysics</i> , 2016, 596, A57.	5.1	20

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55	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
56	Photometry and models of selected main belt asteroids. <i>Astronomy and Astrophysics</i> , 2007, 473, 633-639.	5.1	18
57	Shape models of asteroids based on lightcurve observations with BlueEye600 robotic observatory. <i>Icarus</i> , 2018, 304, 101-109.	2.5	17
58	Inversion of asteroid photometry from <i>Gaia</i> DR2 and the Lowell Observatory photometric database. <i>Astronomy and Astrophysics</i> , 2019, 631, A2.	5.1	16
59	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
60	The Resolved Asteroid Program – Size, shape, and pole of (52) Europa. <i>Icarus</i> , 2013, 225, 794-805.	2.5	15
61	Asteroid shapes and thermal properties from combined optical and mid-infrared photometry inversion. <i>Astronomy and Astrophysics</i> , 2017, 604, A27.	5.1	14
62	(704) Interamnia: a transitional object between a dwarf planet and a typical irregular-shaped minor body. <i>Astronomy and Astrophysics</i> , 2020, 633, A65.	5.1	14
63	Reconstruction of asteroid spin states from <i>Gaia</i> DR2 photometry. <i>Astronomy and Astrophysics</i> , 2018, 620, A91.	5.1	12
64	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
65	Asteroids@home – A BOINC distributed computing project for asteroid shape reconstruction. <i>Astronomy and Computing</i> , 2015, 13, 80-84.	1.7	11
66	Distribution of shape elongations of main belt asteroids derived from Pan-STARRS1 photometry. <i>Astronomy and Astrophysics</i> , 2018, 611, A86.	5.1	11
67	Comparison of space weathering spectral changes induced by solar wind and micrometeoroid impacts using ion- and femtosecond-laser-irradiated olivine and pyroxene. <i>Astronomy and Astrophysics</i> , 2021, 654, A143.	5.1	11
68	THE SCHULHOF FAMILY: SOLVING THE AGE PUZZLE. <i>Astronomical Journal</i> , 2016, 151, 56.	4.7	10
69	Physical models of asteroids from sparse photometric data. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 191-200.	0.0	9
70	Rotation acceleration of asteroids (10115) 1992 SK, (1685) Toro, and (1620) Geographos due to the YORP effect. <i>Astronomy and Astrophysics</i> , 2022, 657, A5.	5.1	9
71	Shape Determination of the Asteroid (6053) 1993 BW3. <i>Icarus</i> , 2002, 159, 192-196.	2.5	8
72	The potential of sparse photometric data in asteroid shape modeling. <i>Planetary and Space Science</i> , 2012, 73, 75-79.	1.7	7

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73	Reflectance spectra of seven lunar swirls examined by statistical methods: A space weathering study. <i>Icarus</i> , 2019, 333, 516-527.	2.5	7
74	Properties of slowly rotating asteroids from the Convex Inversion Thermophysical Model. <i>Astronomy and Astrophysics</i> , 2021, 654, A87.	5.1	7
75	Identification of asteroids using the Virtual Observatory: the WFCAM Transit Survey. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 490, 3046-3060.	4.4	6
76	Shape and spin distributions of asteroid populations from brightness variation estimates and large databases. <i>Astronomy and Astrophysics</i> , 2017, 601, A139.	5.1	5
77	Physical and dynamical properties of the unusual V-type asteroid (2579) Spartacus. <i>Astronomy and Astrophysics</i> , 2019, 623, A170.	5.1	5
78	Spin Change of Asteroid 2012 TC4 Probably by Radiation Torques. <i>Astronomical Journal</i> , 2021, 161, 112.	4.7	5
79	Inverse problems of NEO photometry: Imaging the NEO population. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 151-166.	0.0	4
80	Shape model and spin state of non-principal axis rotator (5247) Krylov. <i>Astronomy and Astrophysics</i> , 2020, 635, A137.	5.1	4
81	Rotation state of 495 Eulalia and its implication. <i>Astronomy and Astrophysics</i> , 2016, 585, A56.	5.1	4
82	433 Eros " comparison of lightcurve extrema from 1901"1931 with the present rotation state. <i>Astronomy and Astrophysics</i> , 2005, 431, 381-383.	5.1	3
83	PHOTOMETRIC STUDY OF NPA ROTATOR (5247) KRYLOV. <i>Journal of the Korean Astronomical Society</i> , 2017, 50, 41-49.	1.5	3
84	Rotation Periods of Asteroids Determined With Bootstrap Convex Inversion From ATLAS Photometry. <i>Frontiers in Astronomy and Space Sciences</i> , 2022, 9, .	2.8	2
85	WISE data and sparse photometry used for shape reconstruction of asteroids. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 170-176.	0.0	1
86	(208) Lacrimosa: A case that missed the Slivan state?. <i>Astronomy and Astrophysics</i> , 2021, 649, A45.	5.1	1
87	VLT/SPHERE- and ALMA-based shape reconstruction of asteroid (3) Juno (Corrigendum). <i>Astronomy and Astrophysics</i> , 2015, 582, C1.	5.1	0
88	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2016 APRIL-JUNE. , 2016, 43, 193-197.		0
89	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2016 JANUARY-MARCH. , 2016, 43, 103-108.		0
90	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2013 OCTOBER-DECEMBER. , 2013, 40, 236-240.		0

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91	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2013 JULY-SEPTEMBER. , 2013, 40, 180-184.		0
92	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2013 JANUARY-MARCH. , 2013, 40, 54-58.		0
93	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2014 JANUARY-MARCH. , 2014, 41, 61-65.		0
94	LIGHTCURVE PHOTOMETRY OPPORTUNITIES: 2013 APRIL-JUNE. , 2013, 40, 113-117.		0