

Josef Hanus

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,586
citations

279798

23
h-index

330143

37
g-index

66
all docs

66
docs citations

66
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Combining asteroid models derived by lightcurve inversion with asteroidal occultation silhouettes. <i>Icarus</i> , 2011, 214, 652-670.	2.5	92
3	Near-Earth asteroid (3200) Phaethon: Characterization of its orbit, spin state, and thermophysical parameters. <i>Astronomy and Astrophysics</i> , 2016, 592, A34.	5.1	73
4	Volumes and bulk densities of forty asteroids from ADAM shape modeling. <i>Astronomy and Astrophysics</i> , 2017, 601, A114.	5.1	67
5	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
6	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
7	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
8	Sizes of main-belt asteroids by combining shape models and Keck adaptive optics observations. <i>Icarus</i> , 2013, 226, 1045-1057.	2.5	51
9	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
10	Asteroid pairs: A complex picture. <i>Icarus</i> , 2019, 333, 429-463.	2.5	47
11	(16) Psyche: A mesosiderite-like asteroid?. <i>Astronomy and Astrophysics</i> , 2018, 619, L3.	5.1	46
12	Asteroid models from the Lowell photometric database. <i>Astronomy and Astrophysics</i> , 2016, 587, A48.	5.1	45
13	(3200) Phaethon: Bulk density from Yarkovsky drift detection. <i>Astronomy and Astrophysics</i> , 2018, 620, L8.	5.1	41
14	Thermophysical modeling of main-belt asteroids from WISE thermal data. <i>Icarus</i> , 2018, 309, 297-337.	2.5	40
15	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
16	3D shape of asteroid (6) Hebe from VLT/SPHERE imaging: Implications for the origin of ordinary H chondrites. <i>Astronomy and Astrophysics</i> , 2017, 604, A64.	5.1	35
17	An anisotropic distribution of spin vectors in asteroid families. <i>Astronomy and Astrophysics</i> , 2013, 559, A134.	5.1	34
18	Asteroid (16) Psyche: Evidence for a silicate regolith from spitzer space telescope spectroscopy. <i>Icarus</i> , 2018, 304, 58-73.	2.5	34

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19	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
20	Asteroid models reconstructed from the Lowell Photometric Database and WISE data. <i>Astronomy and Astrophysics</i> , 2018, 617, A57.	5.1	28
21	Spin states of asteroids in the Eos collisional family. <i>Icarus</i> , 2018, 299, 84-96.	2.5	27
22	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
23	The violent collisional history of aqueously evolved (2) Pallas. <i>Nature Astronomy</i> , 2020, 4, 569-576.	10.1	26
24	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
25	Homogeneous internal structure of CM-like asteroid (41) Daphne. <i>Astronomy and Astrophysics</i> , 2019, 623, A132.	5.1	25
26	Asteroid (16) Psyche's primordial shape: A possible Jacobi ellipsoid. <i>Astronomy and Astrophysics</i> , 2020, 638, L15.	5.1	25
27	Asteroid masses obtained with INPOP planetary ephemerides. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 589-602.	4.4	25
28	Rotationally Resolved Spectroscopic Characterization of Near-Earth Object (3200) Phaethon. <i>Astronomical Journal</i> , 2018, 156, 287.	4.7	23
29	Near-infrared observations of active asteroid (3200) Phaethon reveal no evidence for hydration. <i>Nature Communications</i> , 2020, 11, 2050.	12.8	21
30	Differences between the Pallas collisional family and similarly sized B-type asteroids. <i>Astronomy and Astrophysics</i> , 2016, 591, A14.	5.1	20
31	Closing the gap between Earth-based and interplanetary mission observations: Vesta seen by VLT/SPHERE. <i>Astronomy and Astrophysics</i> , 2019, 623, A6.	5.1	20
32	(216) Kleopatra, a low density critically rotating M-type asteroid. <i>Astronomy and Astrophysics</i> , 2021, 653, A57.	5.1	20
33	Shape model of asteroid (130) Elektra from optical photometry and disk-resolved images from VLT/SPHERE and Nirc2/Keck. <i>Astronomy and Astrophysics</i> , 2017, 599, A36.	5.1	18
34	Shape models of asteroids based on lightcurve observations with BlueEye600 robotic observatory. <i>Icarus</i> , 2018, 304, 101-109.	2.5	17
35	Evidence for differentiation of the most primitive small bodies. <i>Astronomy and Astrophysics</i> , 2021, 650, A129.	5.1	17
36	A new investigation of hydration in the M-type asteroids. <i>Icarus</i> , 2015, 252, 186-198.	2.5	16

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37	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
38	Binary asteroid (31) Euphrosyne: ice-rich and nearly spherical. <i>Astronomy and Astrophysics</i> , 2020, 641, A80.	5.1	16
39	Asteroid shapes and thermal properties from combined optical and mid-infrared photometry inversion. <i>Astronomy and Astrophysics</i> , 2017, 604, A27.	5.1	14
40	(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
41	The non-convex shape of (234) Barbara, the first Barbarian*. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 448, 3382-3390.	4.4	12
42	Reconstruction of asteroid spin states from <i>Gaia</i> DR2 photometry. <i>Astronomy and Astrophysics</i> , 2018, 620, A91.	5.1	12
43	The shape of (7) Iris as evidence of an ancient large impact?. <i>Astronomy and Astrophysics</i> , 2019, 624, A121.	5.1	12
44	An advanced multipole model for (216) Kleopatra triple system. <i>Astronomy and Astrophysics</i> , 2021, 653, A56.	5.1	12
45	Asteroids@home – A BOINC distributed computing project for asteroid shape reconstruction. <i>Astronomy and Computing</i> , 2015, 13, 80-84.	1.7	11
46	Time-series and Phase-curve Photometry of the Episodically Active Asteroid (6478) Gault in a Quiescent State Using APO, GROWTH, P200, and ZTF. <i>Astrophysical Journal Letters</i> , 2021, 911, L35.	8.3	10
47	<i>V</i> -band photometry of asteroids from ASAS-SN. <i>Astronomy and Astrophysics</i> , 2021, 654, A48.	5.1	9
48	Thermal Properties of 1847 WISE-observed Asteroids. <i>Planetary Science Journal</i> , 2022, 3, 56.	3.6	9
49	A method to search for large-scale concavities in asteroid shape models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 453, 2233-2241.	4.4	8
50	Observed tidal evolution of Kleopatra's outer satellite. <i>Astronomy and Astrophysics</i> , 2022, 657, A76.	5.1	8
51	The potential of sparse photometric data in asteroid shape modeling. <i>Planetary and Space Science</i> , 2012, 73, 75-79.	1.7	7
52	The Appearance of a "Fresh" Surface on 596 Scheila as a Consequence of the 2010 Impact Event. <i>Astrophysical Journal Letters</i> , 2022, 924, L9.	8.3	7
53	Physical and dynamical characterization of the Euphrosyne asteroid family. <i>Astronomy and Astrophysics</i> , 2020, 643, A38.	5.1	6
54	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

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55	Shape and spin determination of Barbarian asteroids. <i>Astronomy and Astrophysics</i> , 2017, 607, A119.	5.1	5
56	Volume uncertainty of (7)Âlris shape models from disc-resolved images. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 499, 4545-4560.	4.4	3
57	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
58	(208) Lacrimosa: A case that missed the Slivan state?. <i>Astronomy and Astrophysics</i> , 2021, 649, A45.	5.1	1
59	Mechanical Properties of Selfexpandable Stents. <i>Acta Medica (Hradec Kralove)</i> , 2004, 47, 301-304.	0.5	0
60	Surface Properties Of Asteroids. , 2018, , .		0