

Zoran Knežević

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,323
citations

304743

22
h-index

206112

48
g-index

52
all docs

52
docs citations

52
times ranked

893
citing authors

#	ARTICLE	IF	CITATIONS
1	Asteroid families. I - Identification by hierarchical clustering and reliability assessment. <i>Astronomical Journal</i> , 1990, 100, 2030.	4.7	291
2	Asteroid Proper Elements and the Dynamical Structure of the Asteroid Main Belt. <i>Icarus</i> , 1994, 107, 219-254.	2.5	200
3	Asteroid families classification: Exploiting very large datasets. <i>Icarus</i> , 2014, 239, 46-73.	2.5	171
4	Proper element catalogs and asteroid families. <i>Astronomy and Astrophysics</i> , 2003, 403, 1165-1173.	5.1	158
5	Secular perturbation theory and computation of asteroid proper elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1990, 49, 347-411.	1.4	136
6	Asteroid family ages. <i>Icarus</i> , 2015, 257, 275-289.	2.5	132
7	Secular resonances from 2 to 50 AU. <i>Icarus</i> , 1991, 93, 316-330.	2.5	129
8	Asteroid proper elements and secular resonances. <i>Icarus</i> , 1992, 98, 211-232.	2.5	111
9	Synthetic Proper Elements for Outer Main Belt Asteroids. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2000, 78, 17-46.	1.4	105
10	Families among high-inclination asteroids. <i>Icarus</i> , 2011, 216, 69-81.	2.5	75
11	Collisional origin of the asteroid families: Mass and velocity distributions. <i>Icarus</i> , 1984, 59, 261-285.	2.5	74
12	Stable Chaos in the Asteroid Belt. <i>Icarus</i> , 1997, 125, 13-31.	2.5	70
13	Dynamics of the Hungaria asteroids. <i>Icarus</i> , 2010, 207, 769-794.	2.5	52
14	Orbit determination with very short arcs. <i>Icarus</i> , 2005, 179, 350-374.	2.5	51
15	Solar System Science with LSST. <i>Earth, Moon and Planets</i> , 2009, 105, 101-105.	0.6	46
16	On the ages of resonant, eroded and fossil asteroid families. <i>Icarus</i> , 2017, 288, 240-264.	2.5	46
17	Rotation axes of asteroids: Results for 14 objects. <i>Icarus</i> , 1984, 59, 436-455.	2.5	38
18	ASTEROID SECULAR DYNAMICS: CERES™ FINGERPRINT IDENTIFIED. <i>Astrophysical Journal Letters</i> , 2015, 807, L5.	8.3	37

#	ARTICLE	IF	CITATIONS
19	From Astrometry to Celestial Mechanics: Orbit Determination with Very Short Arcs. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2005, 92, 1-18.	1.4	34
20	Chaotic transport and chronology of complex asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1263-1272.	4.4	30
21	Reconstructing the orbital history of the Veritas family. <i>Icarus</i> , 2007, 186, 484-497.	2.5	29
22	Topocentric orbit determination: Algorithms for the next generation surveys. <i>Icarus</i> , 2008, 195, 474-492.	2.5	28
23	“Galileo Galilei” (GG) a small satellite to test the equivalence principle of Galileo, Newton and Einstein. <i>Experimental Astronomy</i> , 2009, 23, 689-710.	3.7	22
24	Identification of known objects in Solar System surveys. <i>Icarus</i> , 2012, 220, 114-123.	2.5	19
25	Orbit maintenance of a lunar polar orbiter. <i>Planetary and Space Science</i> , 1998, 46, 1605-1611.	1.7	18
26	Probing the Nekhoroshev Stability of Asteroids. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2002, 83, 121-140.	1.4	18
27	Dynamical portrait of the Lixiaohua asteroid family. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 107, 35-49.	1.4	18
28	Recent collisional jet from a primitive asteroid. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 425, 338-346.	4.4	16
29	Photoelectric analysis of asteroid 216 Kleopatra: Implications for its shape. <i>Icarus</i> , 1983, 53, 458-464.	2.5	15
30	Asteroid long-periodic perturbations: The second order Hamiltonian. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1989, 46, 147-158.	1.4	14
31	Footprints of the YORP effect in asteroid families. <i>Icarus</i> , 2016, 274, 314-326.	2.5	14
32	New Definition of Discovery for Solar System Objects. <i>Earth, Moon and Planets</i> , 2007, 100, 83-116.	0.6	13
33	Asteroid Mean Elements: Higher Order and Iterative Theories. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1998, 71, 55-78.	1.4	12
34	The dangerous border of the 5:2 mean motion resonance. <i>Planetary and Space Science</i> , 1997, 45, 1581-1585.	1.7	11
35	Asteroid cratering families: recognition and collisional interpretation. <i>Astronomy and Astrophysics</i> , 2019, 622, A47.	5.1	11
36	Ages of asteroid families estimated using the YORP-eye method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 484, 1815-1828.	4.4	10

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37	Minor planet short periodic perturbations: The indirect part of the disturbing function. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1993, 55, 387-404.	1.4	9
38	Close Encounters with Large Asteroids in the Next 50 Years. <i>Icarus</i> , 1993, 103, 93-103.	2.5	7
39	Families classification including multiopposition asteroids. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 28-45.	0.0	7
40	Are the analytical proper elements of asteroids still needed?. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2019, 131, 1.	1.4	7
41	Computation of asteroid proper elements: Recent advances. <i>Serbian Astronomical Journal</i> , 2017, , 1-8.	0.6	7
42	Secular variations of major planets' orbital elements. <i>Celestial Mechanics and Dynamical Astronomy</i> , 1986, 38, 123-138.	1.4	6
43	Automated Classification of Asteroids into Families at Work. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 130-133.	0.0	6
44	Asteroid Family Identification: History and State of the Art. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 16-27.	0.0	6
45	The impact of physical processes on the estimation of the ages of asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 4302-4320.	4.4	4
46	On the accuracy of position of the linear secular resonance $g \approx g_5$ in the proper elements space. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 497, 4921-4936.	4.4	3
47	Survey of secular resonances in the asteroid belt. <i>Serbian Astronomical Journal</i> , 2022, , 1-27.	0.6	3
48	Extended Families in the Main Belt and in the Trojan Swarms. <i>Highlights of Astronomy</i> , 2005, 13, 758-758.	0.0	2
49	Asteroid long-periodic perturbations: generic term representation of the determining function. <i>Planetary and Space Science</i> , 1994, 42, 15-19.	1.7	1
50	On the reliability of computation of maximum Lyapunov Characteristic Exponents for asteroids. <i>Proceedings of the International Astronomical Union</i> , 2004, 2004, 187-194.	0.0	1
51	Dynamical properties of <i>Watsonia</i> asteroid family. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 180-181.	0.0	0
52	Asteroid "one-sided" families: Identifying footprints of YORP effect and estimating the age. <i>European Physical Journal Plus</i> , 2017, 132, 1.	2.6	0