

Valeri Makarov

List of Publications by Year in descending order

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88
papers

2,882
citations

172457

29
h-index

214800

47
g-index

89
all docs

89
docs citations

89
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	THE THIRD US NAVAL OBSERVATORY CCD ASTROGRAPH CATALOG (UCAC3). <i>Astronomical Journal</i> , 2010, 139, 2184-2199.	4.7	321
2	The Tycho double star catalogue. <i>Astronomy and Astrophysics</i> , 2002, 384, 180-189.	5.1	167
3	Taking the Measure of the Universe: Precision Astrometry with <i>SIM PlanetQuest</i> . <i>Publications of the Astronomical Society of the Pacific</i> , 2008, 120, 38-88.	3.1	142
4	Statistical Constraints for Astrometric Binaries with Nonlinear Motion. <i>Astronomical Journal</i> , 2005, 129, 2420-2427.	4.7	135
5	TIDAL FRICTION AND TIDAL LAGGING. APPLICABILITY LIMITATIONS OF A POPULAR FORMULA FOR THE TIDAL TORQUE. <i>Astrophysical Journal</i> , 2013, 764, 26.	4.5	99
6	NO PSEUDOSYNCHRONOUS ROTATION FOR TERRESTRIAL PLANETS AND MOONS. <i>Astrophysical Journal</i> , 2013, 764, 27.	4.5	90
7	STARSPOT JITTER IN PHOTOMETRY, ASTROMETRY, AND RADIAL VELOCITY MEASUREMENTS. <i>Astrophysical Journal</i> , 2009, 707, L73-L76.	4.5	77
8	DYNAMICAL EVOLUTION AND SPIN-ORBIT RESONANCES OF POTENTIALLY HABITABLE EXOPLANETS: THE CASE OF GJ 581d. <i>Astrophysical Journal</i> , 2012, 761, 83.	4.5	69
9	CONDITIONS OF PASSAGE AND ENTRAPMENT OF TERRESTRIAL PLANETS IN SPIN-ORBIT RESONANCES. <i>Astrophysical Journal</i> , 2012, 752, 73.	4.5	65
10	Spin-orbit evolution of Mercury revisited. <i>Icarus</i> , 2014, 241, 26-44.	2.5	62
11	Gravitational bending of light by planetary multipoles and its measurement with microarcsecond astronomical interferometers. <i>Physical Review D</i> , 2007, 75, .	4.7	59
12	The 100 Brightest X-Ray Stars within 50 Parsecs of the Sun. <i>Astronomical Journal</i> , 2003, 126, 1996-2008.	4.7	56
13	EQUILIBRIUM ROTATION OF SEMILIQUID EXOPLANETS AND SATELLITES. <i>Astrophysical Journal</i> , 2015, 810, 12.	4.5	55
14	Unconstrained Astrometric Orbits for Hipparcos Stars with Stochastic Solutions. <i>Astrophysical Journal</i> , Supplement Series, 2006, 166, 341-350.	7.7	54
15	Unraveling the Origins of Nearby Young Stars. <i>Astrophysical Journal</i> , Supplement Series, 2007, 169, 105-119.	7.7	54
16	TIDAL DISSIPATION IN A HOMOGENEOUS SPHERICAL BODY. I. METHODS. <i>Astrophysical Journal</i> , 2014, 795, 6.	4.5	54
17	Spin-orbital Tidal Dynamics and Tidal Heating in the TRAPPIST-1 Multiplanet System. <i>Astrophysical Journal</i> , 2018, 857, 142.	4.5	52
18	Astrometric Effects of Secular Aberration. <i>Astronomical Journal</i> , 2006, 131, 1471-1478.	4.7	51

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19	Astrometric Orbits for <i>Hipparcos</i> Stochastic Binaries. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 137-142.	7.7	50
20	TIDAL DISSIPATION IN A HOMOGENEOUS SPHERICAL BODY. II. THREE EXAMPLES: MERCURY, IO, AND Kepler-10 b. <i>Astrophysical Journal</i> , 2014, 795, 7.	4.5	47
21	Common Proper Motion Companions to Nearby Stars: Ages and Evolution. <i>Astrophysical Journal</i> , 2008, 687, 566-578.	4.5	44
22	VARIABILITY OF SURFACE FLOWS ON THE SUN AND THE IMPLICATIONS FOR EXOPLANET DETECTION. <i>Astrophysical Journal</i> , 2010, 715, 500-505.	4.5	43
23	Computing the Parallax of the Pleiades from the <i>Hipparcos</i> Intermediate Astrometry Data: An Alternative Approach. <i>Astronomical Journal</i> , 2002, 124, 3299-3304.	4.7	43
24	How many <i>Hipparcos</i> Variability-Induced Movers are genuine binaries?. <i>Astronomy and Astrophysics</i> , 2003, 399, 1167-1175.	5.1	41
25	A moving group of young stars in Carina "Vela. <i>Monthly Notices of the Royal Astronomical Society</i> , 2000, 317, 289-298.	4.4	40
26	Detectability of Earth-like Planets in Multi-Planet Systems: Preliminary Report. <i>EAS Publications Series</i> , 2010, 42, 191-199.	0.3	39
27	Precision Kinematics and Related Parameters of the β Persei Open Cluster. <i>Astronomical Journal</i> , 2006, 131, 2967-2979.	4.7	38
28	PHOTOMETRIC AND ASTROMETRIC VAGARIES OF THE ENIGMA STAR KIC 8462852. <i>Astrophysical Journal</i> , 2016, 833, 78.	4.5	38
29	Internal kinematics of the TW Hya association of young stars. <i>Astronomy and Astrophysics</i> , 2001, 368, 866-872.	5.1	38
30	DYNAMICAL EVOLUTION AND SPIN-ORBIT RESONANCES OF POTENTIALLY HABITABLE EXOPLANETS. THE CASE OF GJ 667C. <i>Astrophysical Journal</i> , 2014, 780, 124.	4.5	37
31	<i>Hipparcos</i> astrometry for 257 stars using Tycho-2 data. <i>Astronomy and Astrophysics</i> , 2000, 144, 45-51.	2.1	34
32	Astrometric Evidence for a Population of Dislodged AGNs. <i>Astrophysical Journal Letters</i> , 2017, 835, L30.	8.3	33
33	VARIABILITY-INDUCED MOTION IN KEPLER DATA. <i>Astrophysical Journal, Supplement Series</i> , 2016, 224, 19.	7.7	32
34	Why is the Moon synchronously rotating?. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2013, 434, L21-L25.	3.3	31
35	Forced libration of tidally synchronized planets and moons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 665-671.	4.4	31
36	TheOrigins Billions Star Survey: Galactic Explorer. <i>Publications of the Astronomical Society of the Pacific</i> , 2006, 118, 1428-1442.	3.1	30

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37	The Local Stellar Velocity Field via Vector Spherical Harmonics. <i>Astronomical Journal</i> , 2007, 134, 367-375.	4.7	29
38	REVEALING COMPANIONS TO NEARBY STARS WITH ASTROMETRIC ACCELERATION. <i>Astronomical Journal</i> , 2012, 144, 7.	4.7	29
39	The Lupus Association of Pre-Main-Sequence Stars: Clues to Star Formation Scattered in Space and Time. <i>Astrophysical Journal</i> , 2007, 658, 480-486.	4.5	27
40	Hipparcos red stars in the HpVT2 and β Pic systems. <i>Astronomy and Astrophysics</i> , 2003, 397, 997-1010.	5.1	26
41	ROSAT View of Hipparcos Stars. <i>Astrophysical Journal</i> , 2003, 595, 1206-1221.	4.5	25
42	Kinematics of stellar associations: the epicycle approximation and the convergent point method. <i>Monthly Notices of the Royal Astronomical Society</i> , 2004, 352, 1199-1207.	4.4	23
43	Kepler Data on KIC 7341653: A Nearby M Dwarf with Monster Flares and a Phase-coherent Variability. <i>Astrophysical Journal</i> , 2017, 845, 149.	4.5	22
44	Orbital relaxation and excitation of planets tidally interacting with white dwarfs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019, 486, 3831-3848.	4.4	21
45	Chaotic Rotation and Evolution of Asteroids and Small Planets in High-eccentricity Orbits around White Dwarfs. <i>Astrophysical Journal</i> , 2019, 886, 127.	4.5	20
46	Constraining the origin of the planetary debris surrounding ZTF J0139+5245 through rotational fission of a triaxial asteroid. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 492, 5291-5296.	4.4	20
47	Comparisons of the Tycho-2 Catalogue Proper Motions with [ITAL]HIPPARCOS[/ITAL] and ACT. <i>Astronomical Journal</i> , 2000, 120, 501-505.	4.7	17
48	Expansion of the TW Hydrae association and the encounter with Vega. <i>Monthly Notices of the Royal Astronomical Society</i> , 2005, 362, 1109-1113.	4.4	17
49	ASTROMETRIC JITTER OF THE SUN AS A STAR. <i>Astrophysical Journal</i> , 2010, 717, 1202-1205.	4.5	16
50	The Precious Set of Radio-optical Reference Frame Objects in the Light of Gaia DR2 Data. <i>Astrophysical Journal</i> , 2019, 873, 132.	4.5	16
51	Signatures of Dynamical Star Formation in the Ophiuchus Association of Pre-Main-Sequence Stars. <i>Astrophysical Journal</i> , 2007, 670, 1225-1233.	4.5	14
52	Internal kinematics and binarity of X-ray stars in the Pleiades open cluster. <i>Astronomy and Astrophysics</i> , 2001, 368, 873-879.	5.1	14
53	The Structure and the Distance of Collinder 121 from <i>Hipparcos</i> and Photometry: Resolving the Discrepancy. <i>Astrophysical Journal</i> , 2007, 667, L155-L157.	4.5	13
54	The Nearby Young Visual Binary HIP 115147 and Its Common Proper Motion Companion LSPM J2322+7847. <i>Astrophysical Journal</i> , 2007, 668, L155-L158.	4.5	13

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55	All-sky visible and near infrared space astrometry. <i>Experimental Astronomy</i> , 2021, 51, 783-843.	3.7	13
56	Improved Hipparcos Parallaxes of Coma Berenices and NGC 6231. <i>Astronomical Journal</i> , 2003, 126, 2408-2410.	4.7	12
57	Accuracy and Covariance Analysis of Global Astrometry with the Space Interferometry Mission. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 757-771.	3.1	11
58	Toward the ICRF3: Astrometric Comparison of the USNO 2016A VLBI Solution with ICRF2 and Gaia DR1. <i>Astronomical Journal</i> , 2018, 155, 229.	4.7	11
59	Quasars with Proper Motions and the Link to Double and Multiple AGNs. <i>Astrophysical Journal</i> , 2022, 933, 28.	4.5	11
60	A Substellar Companion to van Maanen 2. <i>Astrophysical Journal</i> , 2004, 600, L71-L73.	4.5	10
61	A GLOBAL ASTROMETRIC SOLUTION FOR PAN-STARRS REFERENCED TO ICRF2. <i>Astronomical Journal</i> , 2016, 152, 53.	4.7	10
62	The Rate of Visual Binaries among the Brightest X-Ray Stars. <i>Astrophysical Journal</i> , 2002, 576, L61-L64.	4.5	9
63	THE ORIGIN OF BRIGHT X-RAY SOURCES IN MULTIPLE STARS. <i>Astrophysical Journal</i> , 2009, 703, 1760-1765.	4.5	8
64	Radial velocities and binarity of southern SIM grid stars. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 446, 2055-2058.	4.4	7
65	CORRELATED AND ZONAL ERRORS OF GLOBAL ASTROMETRIC MISSIONS: A SPHERICAL HARMONIC SOLUTION. <i>Astronomical Journal</i> , 2012, 144, 22.	4.7	6
66	Double Stars and Astrometric Uncertainties in Gaia DR1. <i>Astrophysical Journal Letters</i> , 2017, 840, L1.	8.3	6
67	UrHip PROPER MOTION CATALOG. <i>Astronomical Journal</i> , 2015, 150, 141.	4.7	5
68	Tidal Quality of the Hot Jupiter WASP-12b. <i>Universe</i> , 2022, 8, 211.	2.5	5
69	The Science of Fundamental Catalogs. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	4
70	Testing the Cosmological Principle: Astrometric Limits on Systemic Motion of Quasars at Different Cosmological Epochs. <i>Astrophysical Journal Letters</i> , 2022, 927, L4.	8.3	4
71	Random errors of star abscissae in the ROEMER space astrometry project. <i>Experimental Astronomy</i> , 1995, 6, 211-222.	3.7	3
72	The Worst Distortions of Astrometric Instruments and Orthonormal Models for Rectangular Fields of View. <i>Publications of the Astronomical Society of the Pacific</i> , 2012, 124, 268-273.	3.1	3

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73	Stability, chaos and entrapment of stars in very wide pairs. Monthly Notices of the Royal Astronomical Society: Letters, 2012, 421, L11-L13.	3.3	3
74	Observations of Red Giants with Suspected Massive Companions. Astronomical Journal, 2019, 157, 136.	4.7	3
75	Functional Principal Component Analysis of Radio-Optical Reference Frame Tie. Astronomical Journal, 2021, 161, 289.	4.7	3
76	Binarity of the Nearby 30 Myr Old Solar Analog HIP 16853 in the Tucana-Horologium Stream. Astrophysical Journal, 2007, 654, L81-L82.	4.5	2
77	Toward inertial reference frames with the SIM observatory. Proceedings of the International Astronomical Union, 2009, 5, 345-349.	0.0	2
78	Optical Variability of ICRF3 Quasars in the Pan-STARRS 3Pi Survey with Functional Principal Component Analysis. Astronomical Journal, 2021, 162, 21.	4.7	2
79	Spin-Orbit Resonances of High-eccentricity Asteroids: Regular, Switching, and Jumping. Planetary Science Journal, 2021, 2, 108.	3.6	2
80	Two-epoch Orbit Estimation for Wide Binaries Resolved in Hipparcos and Gaia. Astronomical Journal, 2020, 160, 284.	4.7	2
81	Gigayear-timescale Destruction of High-eccentricity Asteroids by Spin and Why 2006 HY51 Has Been Spared. Astrophysical Journal, 2020, 899, 103.	4.5	2
82	Astrometric Mass Ratios of 248 Long-period Binary Stars Resolved in Hipparcos and Gaia EDR3. Astronomical Journal, 2021, 162, 260.	4.7	2
83	Chaos over Order: Mapping 3D Rotation of Triaxial Asteroids and Minor Planets. Monthly Notices of the Royal Astronomical Society, 0, , .	4.4	2
84	USNO Bright Star Catalog, Version 1. Astronomical Journal, 2022, 164, 36.	4.7	2
85	Looking for Astrometric Signals below 20mas^1 : A Candidate Exo-Jupiter in $\hat{\iota}$ Pav. Research Notes of the AAS, 2021, 5, 108.	0.7	1
86	Looking for Astrometric Signals below 20mas^1 : A Jupiter-mass Planet Signature in $\hat{\iota}\mu$ Eri. Research Notes of the AAS, 2021, 5, 155.	0.7	1
87	Space astrometry with the <i>Milli-Arcsecond Pathfinder Survey</i> : mission overview and science possibilities. Proceedings of the International Astronomical Union, 2006, 2, 482-482.	0.0	0
88	Revisiting the capture of Mercury into its 3:2 spin-orbit resonance. Proceedings of the International Astronomical Union, 2014, 9, 33-34.	0.0	0