

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
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89
all docs

89
docs citations

89
times ranked

2414
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Tidal Quality of the Hot Jupiter WASP-12b. <i>Universe</i> , 2022, 8, 211.	2.5	5
3	Quasars with Proper Motions and the Link to Double and Multiple AGNs. <i>Astrophysical Journal</i> , 2022, 933, 28.	4.5	11
4	USNO Bright Star Catalog, Version 1. <i>Astronomical Journal</i> , 2022, 164, 36.	4.7	2
5	All-sky visible and near infrared space astrometry. <i>Experimental Astronomy</i> , 2021, 51, 783-843.	3.7	13
6	The Science of Fundamental Catalogs. <i>Frontiers in Astronomy and Space Sciences</i> , 2021, 8, .	2.8	4
7	Looking for Astrometric Signals below $20\text{â}\%{\text{m}}\%{\text{s}}\text{â}^{\sim}1\text{</sup>}$: A Candidate Exo-Jupiter in $\hat{\iota}$ Pav. <i>Research Notes of the AAS</i> , 2021, 5, 108.	0.7	1
8	Functional Principal Component Analysis of Radio-Optical Reference Frame Tie. <i>Astronomical Journal</i> , 2021, 161, 289.	4.7	3
9	Optical Variability of ICRF3 Quasars in the Pan-STARRS 3Pi Survey with Functional Principal Component Analysis. <i>Astronomical Journal</i> , 2021, 162, 21.	4.7	2
10	Spin-Orbit Resonances of High-eccentricity Asteroids: Regular, Switching, and Jumping. <i>Planetary Science Journal</i> , 2021, 2, 108.	3.6	2
11	Looking for Astrometric Signals below $20\text{â}\%{\text{m}}\%{\text{s}}\text{â}^{\sim}1\text{</sup>}$: A Jupiter-mass Planet Signature in $\hat{\iota}\mu$ Eri. <i>Research Notes of the AAS</i> , 2021, 5, 155.	0.7	1
12	Astrometric Mass Ratios of 248 Long-period Binary Stars Resolved in Hipparcos and Gaia EDR3. <i>Astronomical Journal</i> , 2021, 162, 260.	4.7	2
13	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
14	Two-epoch Orbit Estimation for Wide Binaries Resolved in Hipparcos and Gaia. <i>Astronomical Journal</i> , 2020, 160, 284.	4.7	2
15	Gigayear-timescale Destruction of High-eccentricity Asteroids by Spin and Why 2006 HY51 Has Been Spared. <i>Astrophysical Journal</i> , 2020, 899, 103.	4.5	2
16	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
17	Observations of Red Giants with Suspected Massive Companions. <i>Astronomical Journal</i> , 2019, 157, 136.	4.7	3
18	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

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19	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
20	Spin-orbital Tidal Dynamics and Tidal Heating in the TRAPPIST-1 Multiplanet System. <i>Astrophysical Journal</i> , 2018, 857, 142.	4.5	52
21	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
22	Astrometric Evidence for a Population of Dislodged AGNs. <i>Astrophysical Journal Letters</i> , 2017, 835, L30.	8.3	33
23	Double Stars and Astrometric Uncertainties in Gaia DR1. <i>Astrophysical Journal Letters</i> , 2017, 840, L1.	8.3	6
24	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
25	VARIABILITY-INDUCED MOTION IN KEPLER DATA. <i>Astrophysical Journal</i> , Supplement Series, 2016, 224, 19.	7.7	32
26	PHOTOMETRIC AND ASTROMETRIC VAGARIES OF THE ENIGMA STAR KIC 8462852. <i>Astrophysical Journal</i> , 2016, 833, 78.	4.5	38
27	A GLOBAL ASTROMETRIC SOLUTION FOR PAN-STARRS REFERENCED TO ICRF2. <i>Astronomical Journal</i> , 2016, 152, 53.	4.7	10
28	Forced libration of tidally synchronized planets and moons. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 456, 665-671.	4.4	31
29	UrHip PROPER MOTION CATALOG. <i>Astronomical Journal</i> , 2015, 150, 141.	4.7	5
30	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
31	EQUILIBRIUM ROTATION OF SEMILIQUID EXOPLANETS AND SATELLITES. <i>Astrophysical Journal</i> , 2015, 810, 12.	4.5	55
32	TIDAL DISSIPATION IN A HOMOGENEOUS SPHERICAL BODY. I. METHODS. <i>Astrophysical Journal</i> , 2014, 795, 6.	4.5	54
33	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
34	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
35	Spin-orbit evolution of Mercury revisited. <i>Icarus</i> , 2014, 241, 26-44.	2.5	62
36	Revisiting the capture of Mercury into its 3:2 spin-orbit resonance. <i>Proceedings of the International Astronomical Union</i> , 2014, 9, 33-34.	0.0	0

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37	Why is the Moon synchronously rotating?. Monthly Notices of the Royal Astronomical Society: Letters, 2013, 434, L21-L25.	3.3	31
38	NO PSEUDOSYNCHRONOUS ROTATION FOR TERRESTRIAL PLANETS AND MOONS. Astrophysical Journal, 2013, 764, 27.	4.5	90
39	TIDAL FRICTION AND TIDAL LAGGING. APPLICABILITY LIMITATIONS OF A POPULAR FORMULA FOR THE TIDAL TORQUE. Astrophysical Journal, 2013, 764, 26.	4.5	99
40	CORRELATED AND ZONAL ERRORS OF GLOBAL ASTROMETRIC MISSIONS: A SPHERICAL HARMONIC SOLUTION. Astronomical Journal, 2012, 144, 22.	4.7	6
41	REVEALING COMPANIONS TO NEARBY STARS WITH ASTROMETRIC ACCELERATION. Astronomical Journal, 2012, 144, 7.	4.7	29
42	CONDITIONS OF PASSAGE AND ENTRAPMENT OF TERRESTRIAL PLANETS IN SPIN-ORBIT RESONANCES. Astrophysical Journal, 2012, 752, 73.	4.5	65
43	The Worst Distortions of Astrometric Instruments and Orthonormal Models for Rectangular Fields of View. Publications of the Astronomical Society of the Pacific, 2012, 124, 268-273.	3.1	3
44	DYNAMICAL EVOLUTION AND SPIN-ORBIT RESONANCES OF POTENTIALLY HABITABLE EXOPLANETS: THE CASE OF GJ 581d. Astrophysical Journal, 2012, 761, 83.	4.5	69
45	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
46	ASTROMETRIC JITTER OF THE SUN AS A STAR. Astrophysical Journal, 2010, 717, 1202-1205.	4.5	16
47	VARIABILITY OF SURFACE FLOWS ON THE SUN AND THE IMPLICATIONS FOR EXOPLANET DETECTION. Astrophysical Journal, 2010, 715, 500-505.	4.5	43
48	THE THIRD US NAVAL OBSERVATORY CCD ASTROGRAPH CATALOG (UCAC3). Astronomical Journal, 2010, 139, 2184-2199.	4.7	321
49	Detectability of Earth-like Planets in Multi-Planet Systems: Preliminary Report. EAS Publications Series, 2010, 42, 191-199.	0.3	39
50	THE ORIGIN OF BRIGHT X-RAY SOURCES IN MULTIPLE STARS. Astrophysical Journal, 2009, 703, 1760-1765.	4.5	8
51	STARSPOT JITTER IN PHOTOMETRY, ASTROMETRY, AND RADIAL VELOCITY MEASUREMENTS. Astrophysical Journal, 2009, 707, L73-L76.	4.5	77
52	Toward inertial reference frames with the SIM observatory. Proceedings of the International Astronomical Union, 2009, 5, 345-349.	0.0	2
53	Taking the Measure of the Universe: Precision Astrometry with SIM PlanetQuest. Publications of the Astronomical Society of the Pacific, 2008, 120, 38-88.	3.1	142
54	Common Proper Motion Companions to Nearby Stars: Ages and Evolution. Astrophysical Journal, 2008, 687, 566-578.	4.5	44

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55	Gravitational bending of light by planetary multipoles and its measurement with microarcsecond astronomical interferometers. <i>Physical Review D</i> , 2007, 75, .	4.7	59
56	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
57	The Local Stellar Velocity Field via Vector Spherical Harmonics. <i>Astronomical Journal</i> , 2007, 134, 367-375.	4.7	29
58	Unraveling the Origins of Nearby Young Stars. <i>Astrophysical Journal, Supplement Series</i> , 2007, 169, 105-119.	7.7	54
59	Binarity of the Nearby 30 Myr Old Solar Analog HIP 16853 in the Tucana-Horologium Stream. <i>Astrophysical Journal</i> , 2007, 654, L81-L82.	4.5	2
60	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
61	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
62	Astrometric Orbits for <i>Hipparcos</i> Stochastic Binaries. <i>Astrophysical Journal, Supplement Series</i> , 2007, 173, 137-142.	7.7	50
63	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
64	TheOrigins Billions Star Survey: Galactic Explorer. <i>Publications of the Astronomical Society of the Pacific</i> , 2006, 118, 1428-1442.	3.1	30
65	Unconstrained Astrometric Orbits for <i>Hipparcos</i> Stars with Stochastic Solutions. <i>Astrophysical Journal, Supplement Series</i> , 2006, 166, 341-350.	7.7	54
66	Space astrometry with the <i>Milli-Arcsecond Pathfinder Survey</i> : mission overview and science possibilities. <i>Proceedings of the International Astronomical Union</i> , 2006, 2, 482-482.	0.0	0
67	Precision Kinematics and Related Parameters of the $\hat{\pm}$ Persei Open Cluster. <i>Astronomical Journal</i> , 2006, 131, 2967-2979.	4.7	38
68	Astrometric Effects of Secular Aberration. <i>Astronomical Journal</i> , 2006, 131, 1471-1478.	4.7	51
69	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
70	Accuracy and Covariance Analysis of Global Astrometry with theSpace Interferometry Mission. <i>Publications of the Astronomical Society of the Pacific</i> , 2005, 117, 757-771.	3.1	11
71	Statistical Constraints for Astrometric Binaries with Nonlinear Motion. <i>Astronomical Journal</i> , 2005, 129, 2420-2427.	4.7	135
72	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

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73	A Substellar Companion to van Maanen 2. <i>Astrophysical Journal</i> , 2004, 600, L71-L73.	4.5	10
74	Improved Hipparcos Parallaxes of Coma Berenices and NGC 6231. <i>Astronomical Journal</i> , 2003, 126, 2408-2410.	4.7	12
75	ROSAT View of Hipparcos F Stars. <i>Astrophysical Journal</i> , 2003, 595, 1206-1221.	4.5	25
76	The 100 Brightest X-Ray Stars within 50 Parsecs of the Sun. <i>Astronomical Journal</i> , 2003, 126, 1996-2008.	4.7	56
77	How many Hipparcos Variability-Induced Movers are genuine binaries?. <i>Astronomy and Astrophysics</i> , 2003, 399, 1167-1175.	5.1	41
78	Hipparcos red stars in the HipVT2 and β Pic C systems. <i>Astronomy and Astrophysics</i> , 2003, 397, 997-1010.	5.1	26
79	The Rate of Visual Binaries among the Brightest X-Ray Stars. <i>Astrophysical Journal</i> , 2002, 576, L61-L64.	4.5	9
80	The Tycho double star catalogue. <i>Astronomy and Astrophysics</i> , 2002, 384, 180-189.	5.1	167
81	Computing the Parallax of the Pleiades from the [ITAL]Hipparcos[/ITAL] Intermediate Astrometry Data: An Alternative Approach. <i>Astronomical Journal</i> , 2002, 124, 3299-3304.	4.7	43
82	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
83	Internal kinematics of the TW Hya association of young stars. <i>Astronomy and Astrophysics</i> , 2001, 368, 866-872.	5.1	38
84	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
85	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
86	Hipparcos astrometry for 257 stars using Tycho-2 data. <i>Astronomy and Astrophysics</i> , 2000, 144, 45-51.	2.1	34
87	Random errors of star abscissae in the ROEMER space astrometry project. <i>Experimental Astronomy</i> , 1995, 6, 211-222.	3.7	3
88	Chaos over Order: Mapping 3D Rotation of Triaxial Asteroids and Minor Planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , .	4.4	2