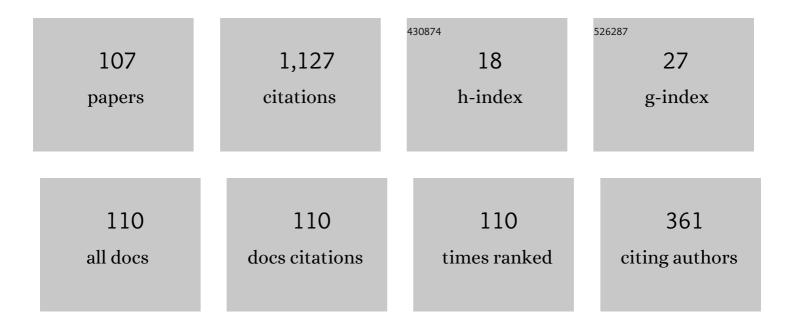
Ivan I Shevchenko

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Lidov-Kozai Effect - Applications in Exoplanet Research and Dynamical Astronomy. Astrophysics and Space Science Library, 2017, , .	2.7	71
2	KEPLER-16b: SAFE IN A RESONANCE CELL. Astrophysical Journal, 2013, 769, 152.	4.5	51
3	Lyapunov exponents in resonance multiplets. Physics Letters, Section A: General, Atomic and Solid State Physics, 2014, 378, 34-42.	2.1	44
4	On the chaotic rotation of planetary satellites: The Lyapunov spectra and the maximum Lyapunov exponents. Astronomy and Astrophysics, 2002, 394, 663-674.	5.1	43
5	Three-lane and multilane signatures of planets in planetesimal discs. Monthly Notices of the Royal Astronomical Society: Letters, 2016, 463, L22-L25.	3.3	39
6	Rotational dynamics of planetary satellites: A survey of regular and chaotic behavior. Icarus, 2005, 176, 224-234.	2.5	37
7	Planetary dynamics in the system α Centauri: The stability diagrams. Astronomy Letters, 2012, 38, 581-588.	1.0	37
8	SPIRAL PATTERNS IN PLANETESIMAL CIRCUMBINARY DISKS. Astrophysical Journal, 2015, 805, 38.	4.5	37
9	On the recurrence and Lyapunov time scales of the motion near the chaos border. Physics Letters, Section A: General, Atomic and Solid State Physics, 1998, 241, 53-60.	2.1	35
10	Marginal Resonances and Intermittent Behaviour in the Motion in the Vicinity of a Separatrix. Physica Scripta, 1998, 57, 185-191.	2.5	34
11	Hamiltonian intermittency and Lévy flights in the three-body problem. Physical Review E, 2010, 81, 066216.	2.1	33
12	On the stability of circumbinary planetary systems. Astronomy Letters, 2016, 42, 474-481.	1.0	32
13	Habitability Properties of Circumbinary Planets. Astronomical Journal, 2017, 153, 273.	4.7	32
14	CHAOTIC ZONES AROUND GRAVITATING BINARIES. Astrophysical Journal, 2015, 799, 8.	4.5	31
15	The Kepler map in the three-body problem. New Astronomy, 2011, 16, 94-99.	1.8	30
16	On possible circumbinary configurations of the planetary systems of α Centauri and EZ Aquarii. Astronomy Letters, 2016, 42, 260-267.	1.0	28
17	Massive identification of asteroids in three-body resonances. Icarus, 2013, 222, 220-228.	2.5	27
18	The rotation states predominant among the planetary satellites. Icarus, 2010, 209, 786-794.	2.5	26

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19	LYAPUNOV AND DIFFUSION TIMESCALES IN THE SOLAR NEIGHBORHOOD. Astrophysical Journal, 2011, 733, 39.	4.5	25
20	On the chaotic rotation of planetary satellites: The Lyapunov exponents and the energy. Astronomy and Astrophysics, 2003, 410, 749-757.	5.1	24
21	The width of a chaotic layer. Physics Letters, Section A: General, Atomic and Solid State Physics, 2008, 372, 808-816.	2.1	24
22	Lyapunov exponents in the HÃ $ \odot$ non-Heiles problem. JETP Letters, 2003, 77, 642-646.	1.4	22
23	The Separatrix Algorithmic Map: Application to the Spin-Orbit Motion. Celestial Mechanics and Dynamical Astronomy, 1999, 73, 259-268.	1.4	20
24	Observations and Theoretical Analysis of Lightcurves of Natural Satellites of Planets. Solar System Research, 2002, 36, 248-259.	0.7	19
25	Geometry of a chaotic layer. Journal of Experimental and Theoretical Physics, 2000, 91, 615-625.	0.9	18
26	Maximum Lyapunov Exponents for Chaotic Rotation of Natural Planetary Satellites. Cosmic Research, 2002, 40, 296-304.	0.6	17
27	Chaotic dynamics around cometary nuclei. Icarus, 2018, 307, 391-399.	2.5	17
28	Dynamical Chaos in Planetary Systems. Astrophysics and Space Science Library, 2020, , .	2.7	16
29	On the rotational dynamics of Prometheus and Pandora. Celestial Mechanics and Dynamical Astronomy, 2008, 101, 31-47.	1.4	15
30	Adiabatic chaos in the Prometheus-Pandora system. Monthly Notices of the Royal Astronomical Society, 0, 384, 1211-1220.	4.4	15
31	Chaotic Zones around Rotating Small Bodies. Astronomical Journal, 2017, 153, 272.	4.7	15
32	On the maximum Lyapunov exponent of the motion in a chaotic layer. JETP Letters, 2004, 79, 523-528.	1.4	14
33	Intermittent Trajectories in the 3/1 Jovian Resonance. Celestial Mechanics and Dynamical Astronomy, 1997, 68, 163-175.	1.4	13
34	The disruption of three-body gravitational systems: lifetime statistics. Monthly Notices of the Royal Astronomical Society, 2010, 408, 1623-1627.	4.4	13
35	Isentropic perturbations of a chaotic domain. Physics Letters, Section A: General, Atomic and Solid State Physics, 2004, 333, 408-414.	2.1	10
36	Unusual rotation modes of minor planetary satellites. Solar System Research, 2007, 41, 483-491.	0.7	10

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37	Width of the chaotic layer: Maxima due to marginal resonances. Physical Review E, 2012, 85, 066202.	2.1	10
38	Algorithms for normalization of Hamiltonian systems by means of computer algebra. Computer Physics Communications, 1993, 77, 11-18.	7.5	9
39	The shapes and rotational dynamics of minor planetary satellites. Solar System Research, 2006, 40, 393-399.	0.7	8
40	The Lyapunov exponents in the dynamics of triple star systems. Astronomy Reports, 2013, 57, 429-439.	0.9	8
41	Correlations in area preserving maps: A Shannon entropy approach. Physica D: Nonlinear Phenomena, 2020, 402, 132235.	2.8	8
42	The dynamical temperature and the standard map. Physica A: Statistical Mechanics and Its Applications, 2007, 386, 85-91.	2.6	6
43	Simulations of the Dynamics of the Debris Disks in the Systems Kepler-16, Kepler-34, and Kepler-35. Astronomy Letters, 2018, 44, 119-125.	1.0	6
44	Dynamical environments of MU69 and similar objects. Icarus, 2021, 357, 114178.	2.5	6
45	Lyapunov and Clearing Timescales in Planetary Chaotic Zones. Astronomical Journal, 2020, 160, 212.	4.7	6
46	Long-Term Dynamics of Planetesimals in Planetary Chaotic Zones. Astronomy Letters, 2020, 46, 774-782.	1.0	6
47	Hyperboloidal precession of a dynamically symmetric satellite. Construction of normal forms of the Hamiltonian. Celestial Mechanics and Dynamical Astronomy, 1995, 62, 289-304.	1.4	5
48	On the Lyapunov exponents of the asteroidal motion subject to resonances and encounters. Proceedings of the International Astronomical Union, 2006, 2, 15-30.	0.0	5
49	Circumbinary Planetary Systems in the Solar Neighborhood: Stability and Habitability. Astronomy Letters, 2019, 45, 620-626.	1.0	5
50	Spectra of Winding Numbers of Chaotic Asteroidal Motion. , 1996, , 311-314.		5
51	On the Critical Phenomena in the Dynamics of Asteroids. , 1999, , 383-386.		5
52	ORBITAL RESONANCES AND THE SEPARATRIX ALGORITHMIC MAP. Advanced Series in Astrophysics and Cosmology, 2000, , 599-608.	0.1	5
53	Kepler map. Scholarpedia Journal, 2018, 13, 33238.	0.3	5
54	Revisiting the relation between the Lyapunov time and the instability time. Physica D: Nonlinear Phenomena, 2022, 430, 133101.	2.8	5

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55	Chaotic asteroidal trajectories exhibiting multiple bursts of eccentricity: A statistical analysis. Symposium - International Astronomical Union, 1996, 172, 183-186.	0.1	4
56	Stability of the multiple star system \hat{l}^1 UMa (ADS 7114). Astronomy Reports, 2014, 58, 640-649.	0.9	4
57	Tidal Decay of Circumbinary Planetary Systems. Astronomical Journal, 2018, 156, 52.	4.7	4
58	On verification of the asymptotic model of the first kind. Astrophysics and Space Science, 1993, 202, 45-56.	1.4	3
59	Chaotic Asteroidal Dynamics and Maximum Lyapunov Exponents. Solar System Research, 2003, 37, 74-82.	0.7	3
60	Symbolic computation of the Birkhoff normal form in the problem of stability of the triangular libration points. Computer Physics Communications, 2008, 178, 665-672.	7.5	3
61	On reverberation and cross-correlation estimates of the size of the broad-line region in active galactic nuclei. Monthly Notices of the Royal Astronomical Society, 2008, 389, 478-488.	4.4	3
62	The Separatrix Algorithmic Map: Application to the Spin-Orbit Motion. , 1999, , 259-268.		3
63	Algorithms of numeric deduction of analytical expressions. SIGSAM Bulletin: A Quarterly Publication of the Special Interest Group on Symbolic & Algebraic Manipulation, 1993, 27, 1-3.	0.3	2
64	Chaotic Dynamics of Satellite Systems. Solar System Research, 2005, 39, 322-332.	0.7	2
65	Orbital resonances in exoplanetary systems. Journal of Physics: Conference Series, 2014, 572, 012006.	0.4	2
66	Massive evaluation and analysis of Poincaré recurrences on grids of initial data: A tool to map chaotic diffusion. Computer Physics Communications, 2020, 246, 106868.	7.5	2
67	Rapid spectral variability of active nuclei of galaxies. Amplitudes of variations in lines. Astrofizika, 1988, 28, 35-42.	0.0	1
68	Numeric Deduction in Symbolic Computation. Application to Normalizing Transformations. Journal of Symbolic Computation, 1997, 24, 103-111.	0.8	1
69	Sungrazing Comets. Astrophysics and Space Science Library, 2017, , 105-115.	2.7	1
70	Optical variability and radio structure of extragalactic sources. Evidence of recurrent activity. Astrofizika, 1982, 18, 150-156.	0.0	0
71	Stages of evolution and extended radio structures of active nuclei of galaxies. Astrofizika, 1984, 20, 297-302.	0.0	0
72	The Amplitude–Time Lag Relation for Emission-Line Flares of AGN. Symposium - International Astronomical Union, 1994, 159, 173-176.	0.1	0

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73	The Separatrix Algorithmic Map: Application to The Spin-Orbit Motion. International Astronomical Union Colloquium, 1999, 172, 259-268.	0.1	0
74	On The Critical Phenomena in The Dynamics of Asteroids. International Astronomical Union Colloquium, 1999, 172, 383-386.	0.1	0
75	The "still point―cosmology. Symposium - International Astronomical Union, 2005, 201, 514-515.	0.1	Ο
76	On BLR Size Estimates in Reverberation Models. Proceedings of the International Astronomical Union, 2009, 5, 209-209.	0.0	0
77	How do the small planetary satellites rotate?. Proceedings of the International Astronomical Union, 2009, 5, 167-170.	0.0	Ο
78	The XXVII general assembly of the IAU: The central event of the international year of astronomy. Solar System Research, 2010, 44, 348-353.	0.7	0
79	Planetary Dynamics in the α Centauri System: Lyapunov Spectra and Long-term Behaviour. Proceedings of the International Astronomical Union, 2011, 7, 450-451.	0.0	Ο
80	International forum "Asteroids, Comets, Meteors 2012― Solar System Research, 2013, 47, 141-145.	0.7	0
81	Dynamical Essence and Historical Background. Astrophysics and Space Science Library, 2017, , 1-11.	2.7	0
82	Averaging and Normalization in Celestial Mechanics. Astrophysics and Space Science Library, 2017, , 13-26.	2.7	0
83	Classical Results. Astrophysics and Space Science Library, 2017, , 27-56.	2.7	0
84	The Theory Advances. Astrophysics and Space Science Library, 2017, , 57-89.	2.7	0
85	Asteroids and Kuiper Belt Objects in Inclined Orbits. Astrophysics and Space Science Library, 2017, , 117-137.	2.7	0
86	The Role in Sculpting Exoplanetary Systems. Astrophysics and Space Science Library, 2017, , 139-159.	2.7	0
87	Applications in Stellar Dynamics. Astrophysics and Space Science Library, 2017, , 161-169.	2.7	0
88	Dynamical environments of MU69: a state of chaotic clearing. Proceedings of the International Astronomical Union, 2018, 14, 227-229.	0.0	0
89	Resonant multi-lane patterns in circumbinary young debris disks. Proceedings of the International Astronomical Union, 2018, 14, 230-231.	0.0	0
90	General Assembly of the International Astronomical Union in Vienna: in the Lead-Up to the Centenary of the IAU. Solar System Research, 2019, 53, 146-150.	0.7	0

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91	Dynamical environments of relativistic binaries: The phenomenon of resonance shifting. Physical Review D, 2019, 100, .	4.7	0
92	Habitable worlds of merging stars. International Journal of Astrobiology, 2020, 19, 500-504.	1.6	0
93	Prometheus and Pandora, the champions of dynamical chaos. Thirty Years of Astronomical Discovery With UKIRT, 2008, , 285-292.	0.3	0
94	Numerical Tools for Studies of Dynamical Chaos. Astrophysics and Space Science Library, 2020, , 35-51.	2.7	0
95	Planetary Systems of Multiple Stars. Astrophysics and Space Science Library, 2020, , 305-324.	2.7	0
96	Multiplanet Systems of Single Stars. Astrophysics and Space Science Library, 2020, , 291-303.	2.7	0
97	Effects of Chaotic Clearing in Planetary Systems. Astrophysics and Space Science Library, 2020, , 273-289.	2.7	0
98	Extents of Chaotic Domains. Astrophysics and Space Science Library, 2020, , 95-117.	2.7	0
99	Diffusion Timescales. Astrophysics and Space Science Library, 2020, , 77-94.	2.7	0
100	Planetary Architecture: Stability, Packing and Ranging. Astrophysics and Space Science Library, 2020, , 235-271.	2.7	0
101	Chaotic Behaviour. Astrophysics and Space Science Library, 2020, , 3-34.	2.7	0
102	Lyapunov Timescales. Astrophysics and Space Science Library, 2020, , 53-76.	2.7	0
103	Orbital Dynamics of Minor Bodies. Astrophysics and Space Science Library, 2020, , 147-208.	2.7	0
104	Rotational Dynamics. Astrophysics and Space Science Library, 2020, , 125-146.	2.7	0
105	The Lidov–Kozai Effect: Chaotic Implications. Astrophysics and Space Science Library, 2020, , 325-331.	2.7	0
106	Exoplanets: An Overview. Astrophysics and Space Science Library, 2020, , 219-233.	2.7	0
107	Host Stars of Planets on the Hertzsprung–Russell Diagram. Astronomy Letters, 2021, 47, 651-660.	1.0	О