Tatiana A Michtchenko

List of Publications by Year
in descending order

70	2,537	201674	243625
papers	citations	27 h-index	44 g-index

72	72	72	1091
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Extrasolar Planets in Meanâ€Motion Resonance: Apses Alignment and Asymmetric Stationary Solutions. Astrophysical Journal, 2003, 593, 1124-1133.	4.5	166
2	Planetary migration and extrasolar planets in the 2/1 mean-motion resonance. Monthly Notices of the Royal Astronomical Society, 2005, 365, 1160-1170.	4.4	133
3	Secular dynamics of the three-body problem: application to the Ï… Andromedae planetary system. Icarus, 2004, 168, 237-248.	2.5	120
4	Discovery of a Basaltic Asteroid in the Outer Main Belt. Science, 2000, 288, 2033-2035.	12.6	117
5	Evolution of Migrating Planet Pairs in Resonance. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 99-112.	1.4	99
6	Modeling the 5 : 2 Mean-Motion Resonance in the Jupiterâ€“Saturn Planetary System. Icarus, 2001, 149, 357-374.	2.5	91
7	Modelling the high-eccentricity planetary three-body problem. Application to the GJ876 planetary system. Monthly Notices of the Royal Astronomical Society, 2003, 341, 760-770.	4.4	90
8	Resonant Structure of the Outer Solar System in the Neighborhood of the Planets. Astronomical Journal, 2001, 122, 474-481.	4.7	83
9	Origin of the Basaltic Asteroid 1459 Magnya: A Dynamical and Mineralogical Study of the Outer Main Belt. Icarus, 2002, 158, 343-359.	2.5	76
10	The Orbits of the Extrasolar Planets HD 82943c and b. Astrophysical Journal, 2005, 621, 473-481.	4.5	71
11	Modeling the 3-D secular planetary three-body problem. Icarus, 2006, 181, 555-571.	2.5	69
12	Dynamic portrait of the planetary 2/1 mean-motion resonance â€“ I. Systems with a more massive outer planet. Monthly Notices of the Royal Astronomical Society, 2008, 387, 747-758.	4.4	69
13	On the V-type asteroids outside the Vesta family. Astronomy and Astrophysics, 2005, 441, 819-829.	5.1	68
14	Stationary Orbits in Resonant Extrasolar Planetary Systems. Celestial Mechanics and Dynamical Astronomy, 2006, 94, 411-432.	1.4	60
15	Dynamics of two planets in co-orbital motion. Monthly Notices of the Royal Astronomical Society, 2010, 407, 390-398.	4.4	58
16	Reliability of orbital fits for resonant extrasolar planetary systems: the case of HD82943. Monthly Notices of the Royal Astronomical Society, 2008, 385, 2151-2160.	4.4	57
17	Spinâ€“orbit coupling for tidally evolving super-Earths. Monthly Notices of the Royal Astronomical Society, 2012, 427, 2239-2250.	4.4	54
18	Dynamic portrait of the planetary 2/1 mean-motion resonance - II. Systems with a more massive inner planet. Monthly Notices of the Royal Astronomical Society, 2008, 391, 215-227.	4.4	53

#	Article	IF	Citations
19	Tidal decay and orbital circularization in close-in two-planet systems. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2349-2358.	4.4	52
20	Survival of Trojan-type companions of Neptune during primordial planet migration. Icarus, 2004, 167, 347-359.	2.5	47
21	A frequency approach to identifying asteroid families. Astronomy and Astrophysics, 2007, 475, 1145-1158.	5.1	44
22	Dynamics of Two Planets in the 3/2 Mean-motion Resonance: Application to the Planetary System of the Pulsar PSR B1257+12. Celestial Mechanics and Dynamical Astronomy, 2006, 94, 381-397.	1.4	41
23	On the mass determination of super-Earths orbiting active stars: the CoRoT-7 system. Astronomy and Astrophysics, 2011, 531, A161.	5.1	41
24	The inner region of the asteroid Main Belt: a spectroscopic and dynamic analysis. Astronomy and Astrophysics, 2006, 459, 969-976.	5.1	40
25	Dynamical stability of terrestrial planets in the binary Î± Centauri system. Monthly Notices of the Royal Astronomical Society, 2014, 444, 2167-2177.	4.4	38
26	Tidal evolution of close-in exoplanets in co-orbital configurations. Celestial Mechanics and Dynamical Astronomy, 2013, 117, 59-74.	1.4	37
27	Modelling the secular evolution of migrating planet pairs. Monthly Notices of the Royal Astronomical Society, 2011, 415, 2275-2292.	4.4	35
28	Mineralogical characterization of Baptistina Asteroid Family: Implications for K/T impactor source. Icarus, 2011, 216, 184-197.	2.5	34
29	A new analysis of the GJ581 extrasolar planetary system. Celestial Mechanics and Dynamical Astronomy, 2012, 113, 49-62.	1.4	33
30	A frequency approach to identifying asteroid families. Astronomy and Astrophysics, 2009, 493, 267-282.	5.1	31
31	The Determinant Role of Jupiter's Great Inequality in the Depletion of the Hecuba Gap. Astronomical Journal, 1998, 116, 1491-1500.	4.7	29
32	Angular momentum exchange during secular migration of two-planet systems. Celestial Mechanics and Dynamical Astronomy, 2011, 111, 161-178.	1.4	28
33	Dynamics of the 3/1 planetary mean-motion resonance: an application to the HD60532 b-c planetary system. Celestial Mechanics and Dynamical Astronomy, 2016, 124, 311-334.	1.4	28
34	Planetary Migration and the Effects of Mean Motion Resonances on Jupiterâ€™s Trojan Asteroids. Astronomical Journal, 2001, 122, 3485-3491.	4.7	28
35	Modeling close encounters with massive asteroids: a Markovian approach. Astronomy and Astrophysics, 2007, 465, 315-330.	5.1	27
36	Escape of asteroids from the Hecuba gap. Planetary and Space Science, 1997, 45, 1587-1593.	1.7	24

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37	The depletion of the Hecuba gap vs the long-lasting Hilda group. Planetary and Space Science, 1998, 46, 1425-1432.	1.7	24
38	On the Stellar Velocity Distribution in the Solar Neighborhood in Light of Gaia DR2. Astrophysical Journal Letters, 2018, 863, L37.	8.3	24
39	Dynamics of Two Planets in the 2/1 Mean-Motion Resonance. Celestial Mechanics and Dynamical Astronomy, 2004, 89, 201-234.	1.4	23
40	On the V-type asteroids outside the Vesta family. Astronomy and Astrophysics, 2007, 473, 967-978.	5.1	23
41	The Dynamical Origin of the Local Arm and the Sun's Trapped Orbit. Astrophysical Journal, 2017, 843, 48.	4.5	22
42	Multi-planet extrasolar systems â€" detection and dynamics. Research in Astronomy and Astrophysics, 2012, 12, 1044-1080.	1.7	20
43	Secular dynamics of S-type planetary orbits in binary star systems: applicability domains of first- and second-order theories. Celestial Mechanics and Dynamical Astronomy, 2016, 124, 405-432.	1.4	20
44	Exploring the Origin of Moving Groups and Diagonal Ridges by Simulations of Stellar Orbits and Birthplaces. Astrophysical Journal, 2020, 888, 75.	4.5	20
45	Dynamic picture of the inner asteroid belt: implications for the density, size and taxonomic distributions of real objects. Monthly Notices of the Royal Astronomical Society, 2010, 401, 2499-2516.	4.4	18
46	Modelling resonances and orbital chaos in disk galaxies. Astronomy and Astrophysics, 2017, 597, A39.	5.1	17
47	Social capital and health status: Assessing whether the relationship varies between blacks and whites. Psychology and Health, 2009, 24, 109-118.	2.2	16
48	Combined dynamical effects of the bar and spiral arms in a Galaxy model. Application to the solar neighbourhood. Astronomy and Astrophysics, 2018, 615, A10.	5.1	16
49	DETECTABILITY AND ERROR ESTIMATION IN ORBITAL FITS OF RESONANT EXTRASOLAR PLANETS. Astrophysical Journal, 2009, 699, 1321-1332.	4.5	15
50	Chaotic transitions in resonant asteroidal dynamics. Celestial Mechanics and Dynamical Astronomy, 1996, 64, 93-105.	1.4	12
51	Formation and evolution of the two 4/3 resonant giants planets in HDâ€‰200964. Astronomy and Astrophysics, 2015, 573, A94.	5.1	11
52	Moving Groups as the Origin of the Vertical Phase Space Spiral in the Solar Neighborhood. Astrophysical Journal, 2019, 876, 36.	4.5	10
53	Resonances and stability of extra-solar planetary systems. Proceedings of the International Astronomical Union, 2004, 2004, 3-18.	0.0	9
54	A new scenario for the origin of the 3/2 resonant system HDâ€‰45364. Astronomy and Astrophysics, 2013, 560, A65.	5.1	9

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55	Relativistic chaos in the anisotropic harmonic oscillator. Chaos, Solitons and Fractals, 2018, 117, 276-282.	5.1	9
56	The high-eccentricity libration of the Hildas II. Synthetic-theory approach. Celestial Mechanics and Dynamical Astronomy, 1993, 56, 121-129.	1.4	8
57	On the current distribution of main belt objects: Constraints for evolutionary models. Astronomy and Astrophysics, 2016, 588, A11.	5.1	8
58	Dynamics of the Spiral-Arm Corotation and Its Observable Footprints in the Solar Neighborhood. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	6
59	Eclipse timing variation of GKâ€‰Vir: evidence of a possible Jupiter-like planet in a circumbinary orbit. Monthly Notices of the Royal Astronomical Society, 2020, 497, 4022-4029.	4.4	4
60	Past and present dynamics of the circumbinary moons in the Pluto-Charon system. Astronomy and Astrophysics, 2022, 658, A99.	5.1	4
61	On the Lack of Asteroids in the Hecuba Gap. Celestial Mechanics and Dynamical Astronomy, 1997, 69, 171-185.	1.4	3
62	Dynamics of the Extrasolar Planetary Systems. , 0, , 151-178.		3
63	Primordial migration of co-orbital satellites as a mechanism for the horseshoe orbit of Janusâ€‰â€Epimetheus. Monthly Notices of the Royal Astronomical Society, 2019, 487, 1973-1979.	4.4	3
64	Orbital determination and dynamics of resonant extrasolar planetary systems. Proceedings of the International Astronomical Union, 2007, 3, 427-440.	0.0	1
65	Dynamical instabilities in planetary systems. EAS Publications Series, 2010, 42, 315-331.	0.3	1
66	Adapting a gas accretion scenario for migrating planets infargo3d. Monthly Notices of the Royal Astronomical Society, 2019, 483, 1599-1608.	4.4	1
67	Dynamical Maps of the Inner Asteroid Belt. Proceedings of the International Astronomical Union, 2009, 5, 240-243.	0.0	0
68	Tidal evolution of a close-in planet with a more massive outer companion. Proceedings of the International Astronomical Union, 2010, 6, 508-510.	0.0	0
69	Secular behavior of a pair of coplanar planets. , 2010, , .		0
70	Adapting a solid accretion scenario for migrating planets in fargo3d. Monthly Notices of the Royal Astronomical Society, 2019, 490, 2336-2346.	4.4	0