

Kleomenis Tsiganis

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

5,976
citations

257450

24
h-index

175258

52
g-index

61
all docs

61
docs citations

61
times ranked

3451
citing authors

#	ARTICLE	IF	CITATIONS
1	Origin of the cataclysmic Late Heavy Bombardment period of the terrestrial planets. <i>Nature</i> , 2005, 435, 466-469.	27.8	1,444
2	Origin of the orbital architecture of the giant planets of the Solar System. <i>Nature</i> , 2005, 435, 459-461.	27.8	1,186
3	Chaotic capture of Jupiter's Trojan asteroids in the early Solar System. <i>Nature</i> , 2005, 435, 462-465.	27.8	743
4	Origin of the structure of the Kuiper belt during a dynamical instability in the orbits of Uranus and Neptune. <i>Icarus</i> , 2008, 196, 258-273.	2.5	385
5	Dynamics of the Giant Planets of the Solar System in the Gaseous Protoplanetary Disk and Their Relationship to the Current Orbital Architecture. <i>Astronomical Journal</i> , 2007, 134, 1790-1798.	4.7	268
6	Contamination of the asteroid belt by primordial trans-Neptunian objects. <i>Nature</i> , 2009, 460, 364-366.	27.8	250
7	LATE ORBITAL INSTABILITIES IN THE OUTER PLANETS INDUCED BY INTERACTION WITH A SELF-GRAVITATING PLANETESIMAL DISK. <i>Astronomical Journal</i> , 2011, 142, 152.	4.7	204
8	EVIDENCE FROM THE ASTEROID BELT FOR A VIOLENT PAST EVOLUTION OF JUPITER'S ORBIT. <i>Astronomical Journal</i> , 2010, 140, 1391-1401.	4.7	192
9	European component of the AIDA mission to a binary asteroid: Characterization and interpretation of the impact of the DART mission. <i>Advances in Space Research</i> , 2018, 62, 2261-2272.	2.6	118
10	AstRoMap European Astrobiology Roadmap. <i>Astrobiology</i> , 2016, 16, 201-243.	3.0	99
11	Science case for the Asteroid Impact Mission (AIM): A component of the Asteroid Impact & Deflection Assessment (AIDA) mission. <i>Advances in Space Research</i> , 2016, 57, 2529-2547.	2.6	95
12	Explaining why the uranian satellites have equatorial prograde orbits despite the large planetary obliquity. <i>Icarus</i> , 2012, 219, 737-740.	2.5	86
13	The ESA Hera Mission: Detailed Characterization of the DART Impact Outcome and of the Binary Asteroid (65803) Didymos. <i>Planetary Science Journal</i> , 2022, 3, 160.	3.6	82
14	THE ORIGIN OF ASTEROID 101955 (1999 RQ ₃₆). <i>Astrophysical Journal Letters</i> , 2010, 721, L53-L57.	8.3	75
15	Chaotic Diffusion And Effective Stability of Jupiter Trojans. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2005, 92, 71-87.	1.4	45
16	Vertical instability and inclination excitation during planetary migration. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 119, 221-235.	1.4	39
17	Interaction of free-floating planets with a star-planet pair. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2012, 113, 387-402.	1.4	34
18	Creep stability of the DART/Hera mission target 65803 Didymos: II. The role of cohesion. <i>Icarus</i> , 2021, 362, 114433.	2.5	33

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19	The excited spin state of Dimorphos resulting from the DART impact. <i>Icarus</i> , 2021, 370, 114624.	2.5	33
20	Stable Chaos in the 12:7 Mean Motion Resonance and Its Relation to the Stickiness Effect. <i>Icarus</i> , 2000, 146, 240-252.	2.5	32
21	Chaotic transport and chronology of complex asteroid families. <i>Monthly Notices of the Royal Astronomical Society</i> , 2010, 402, 1263-1272.	4.4	30
22	Is Vesta an intact and pristine protoplanet?. <i>Icarus</i> , 2015, 254, 190-201.	2.5	30
23	Reconstructing the orbital history of the Veritas family. <i>Icarus</i> , 2007, 186, 484-497.	2.5	29
24	Trapping in high-order orbital resonances and inclination excitation in extrasolar systems. <i>Monthly Notices of the Royal Astronomical Society</i> , 2009, 400, 1373-1382.	4.4	28
25	Short-lived asteroids in the 7/3 Kirkwood gap and their relationship to the Koronis and Eos families. <i>Icarus</i> , 2003, 166, 131-140.	2.5	26
26	ReDSHIFT: A Global Approach to Space Debris Mitigation. <i>Aerospace</i> , 2018, 5, 64.	2.2	25
27	Stable Chaos versus Kirkwood Gaps in the Asteroid Belt: A Comparative Study of Mean Motion Resonances. <i>Icarus</i> , 2002, 159, 284-299.	2.5	24
28	Stable Chaos in High-Order Jovian Resonances. <i>Icarus</i> , 2002, 155, 454-474.	2.5	23
29	Predictions for the Dynamical States of the Didymos System before and after the Planned DART Impact. <i>Planetary Science Journal</i> , 2022, 3, 157.	3.6	23
30	Reconstructing the size distribution of the primordial Main Belt. <i>Icarus</i> , 2018, 304, 14-23.	2.5	21
31	Trapping in three-planet resonances during gas-driven migration. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2011, 111, 201-218.	1.4	20
32	Dynamical cartography of Earth satellite orbits. <i>Advances in Space Research</i> , 2019, 63, 443-460.	2.6	20
33	Galileo disposal strategy: stability, chaos and predictability. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 464, 4063-4076.	4.4	19
34	Dynamical portrait of the Lixiaohua asteroid family. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 107, 35-49.	1.4	18
35	Dimensionality differences between sticky and non-sticky chaotic trajectory segments in a 3D Hamiltonian system. <i>Chaos, Solitons and Fractals</i> , 2000, 11, 2281-2292.	5.1	17
36	Chaos and the Effects of Planetary Migration on the Orbit of S/2000 S5 Kiviuq. <i>Astronomical Journal</i> , 2004, 128, 1899-1915.	4.7	17

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37	Effect of 3rd-degree gravity harmonics and Earth perturbations on lunar artificial satellite orbits. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2010, 108, 389-404.	1.4	17
38	Formation of $\sim 3D$ multiplanet systems by dynamical disruption of multiple-resonance configurations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2011, 412, 2353-2360.	4.4	17
39	Why do Trojan ASCs (not) Escape?. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2000, 78, 125-136.	1.4	16
40	Quasi-critical orbits for artificial lunar satellites. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2009, 104, 227-239.	1.4	16
41	Libration-induced Orbit Period Variations Following the DART Impact. <i>Planetary Science Journal</i> , 2021, 2, 242.	3.6	14
42	Dynamical lifetime survey of geostationary transfer orbits. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2018, 130, 1.	1.4	12
43	Medium Earth Orbit dynamical survey and its use in passive debris removal. <i>Advances in Space Research</i> , 2019, 63, 3646-3674.	2.6	12
44	The origin of long-lived asteroids in the 2:1 mean-motion resonance with Jupiter. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015, 451, 2399-2416.	4.4	11
45	Chaotic transport of navigation satellites. <i>Chaos</i> , 2019, 29, 101106.	2.5	9
46	Secular resonance sweeping and orbital excitation in decaying disks. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2020, 132, 1.	1.4	7
47	Secular dynamics of a lunar orbiter: a global exploration using Prony's frequency analysis. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 118, 379-397.	1.4	6
48	Chaotic Diffusion of Asteroids. , 2007, , 111-150.		6
49	A continuation approach for computing periodic orbits around irregular-shaped asteroids. An application to 433 Eros. <i>Advances in Space Research</i> , 2021, 68, 4418-4433.	2.6	5
50	Satellite orbits design using frequency analysis. <i>Advances in Space Research</i> , 2015, 56, 163-175.	2.6	4
51	How the Solar System didn't form. <i>Nature</i> , 2015, 528, 202-203.	27.8	4
52	NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens. <i>Proceedings of the International Astronomical Union</i> , 2015, 10, 327-329.	0.0	3
53	NELIOTA: ESA's new NEO lunar impact monitoring project with the 1.2m telescope at the National Observatory of Athens. <i>Proceedings of SPIE</i> , 2016, , .	0.8	2
54	Chaotic Diffusion and Effective Stability of Jupiter Trojans. , 2005, , 71-87.		2

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55	Early dynamical evolution of the Solar System: constraints from asteroid and KBO dynamics. Proceedings of the International Astronomical Union, 2004, 2004, 279-292.	0.0	0
56	Constraining asteroid dynamical models using GAIA data. Planetary and Space Science, 2012, 73, 47-51.	1.7	0
57	Long-term evolution of asteroids in the 2:1 Mean Motion Resonance. Proceedings of the International Astronomical Union, 2014, 9, 178-179.	0.0	0
58	Influence of the inclination damping on the formation of planetary systems. Proceedings of the International Astronomical Union, 2014, 9, 220-222.	0.0	0