Juan FÃ©lix San-Juan

List of Publications by Year
in descending order

47 papers	422 citations	759233 12 h-index	839539 18 g-index
48 all docs	48 docs citations	48 times ranked	164 citing authors

#	Article	IF	Citations
1	Dynamic Behavior of an Orbiter around Europa. Journal of Guidance, Control, and Dynamics, 2005, 28, 291-297.	2.8	42
2	Delaunay variables approach to the elimination of the perigee in Artificial Satellite Theory. Celestial Mechanics and Dynamical Astronomy, 2014, 120, 39-56.	1.4	24
3	On the third-body perturbations of high-altitude orbits. Celestial Mechanics and Dynamical Astronomy, 2012, 113, 435-452.	1.4	22
4	End-of-life disposal of high elliptical orbit missions: The case of INTEGRAL. Advances in Space Research, 2015, 56, 479-493.	2.6	22
5	Hybrid SGP4 orbit propagator. Acta Astronautica, 2017, 137, 254-260.	3.2	21
6	Multiple Revolution Perturbed Lambert Problem Solvers. Journal of Guidance, Control, and Dynamics, 2018, 41, 2019-2032.	2.8	21
7	The Hénon and Heiles Problem in Three Dimensions.. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1199-1213.	1.7	20
8	Phase Space Structure Around Oblate Planetary Satellites. Journal of Guidance, Control, and Dynamics, 2006, 29, 113-120.	2.8	20
9	Short Term Evolution of Artificial Satellites. Celestial Mechanics and Dynamical Astronomy, 2001, 79, 277-296.	1.4	17
10	The Hénon and Heiles Problem in Three Dimensions.. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 1998, 08, 1215-1229.	1.7	16
11	Optimal Earth's reentry disposal of the Galileo constellation. Advances in Space Research, 2018, 61, 1097-1120.	2.6	15
12	HEOSAT: a mean elements orbit propagator program for highly elliptical orbits. CEAS Space Journal, 2018, 10, 3-23.	2.3	15
13	ATESAT: A symbolic processor for artificial satellite theory. Mathematics and Computers in Simulation, 1998, 45, 497-510.	4.4	12
14	First-Order Analytical Solution for Spacecraft Motion About (433) Eros. Journal of Guidance, Control, and Dynamics, 2004, 27, 290-293.	2.8	11
15	Secular motion around synchronously orbiting planetary satellites. Chaos, 2005, 15, 043101.	2.5	11
16	Application of Computational Intelligence in Order to Develop Hybrid Orbit Propagation Methods. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	10
17	Exploring the long-term dynamics of perturbed Keplerian motion in high degree potential fields. Communications in Nonlinear Science and Numerical Simulation, 2020, 82, 105053.	3.3	10
18	A note on lower bounds for relative equilibria in the main problem of artificial satellite theory. Celestial Mechanics and Dynamical Astronomy, 2007, 99, 69-83.	1.4	8

#	Article	IF	Citations
19	Deep Resonant GPS-Dynamics Due to the Geopotential. Journal of the Astronautical Sciences, 2011, 58, 661-676.	1.5	8
20	An Economic Hybrid Analytical Orbit Propagator Program Based on SARIMA Models. Mathematical Problems in Engineering, 2012, 2012, 1-15.	1.1	8
21	Hybrid perturbation methods based on statistical time series models. Advances in Space Research, 2016, 57, 1641-1651.	2.6	8
22	On Bounded Satellite Motion under Constant Radial Propulsive Acceleration. Mathematical Problems in Engineering, 2012, 2012, 1-12.	1.1	7
23	Averaging Tesseral Effects: Closed Form Relegation versus Expansions of Elliptic Motion. Mathematical Problems in Engineering, 2013, 2013, 1-11.	1.1	7
24	Long-term evolution of Galileo operational orbits by canonical perturbation theory. Acta Astronautica, 2014, 94, 646-655.	3.2	7
25	On the HÃ©non and Heiles system in three dimensions: The role of the axial symmetry. Physics Letters, Section A: General, Atomic and Solid State Physics, 1997, 228, 255-260.	2.1	6
26	Semianalytic Integration of High-Altitude Orbits under Lunisolar Effects. Mathematical Problems in Engineering, 2012, 2012, 1-17.	1.1	6
27	Precise Analytical Computation of Frozen-Eccentricity, Low Earth Orbits in a Tesseral Potential. Mathematical Problems in Engineering, 2013, 2013, 1-13.	1.1	6
28	Is symbolic integration better than numerical integration in satellite dynamics?. Applied Mathematics Letters, 2004, 17, 59-63.	2.7	5
29	DepritÃ¢€™s Elimination of the Parallax Revisited. Journal of the Astronautical Sciences, 2013, 60, 137-148.	1.5	4
30	Efficient semi-analytic integration of GNSS orbits under tesseral effects. Acta Astronautica, 2014, 102, 355-366.	3.2	4
31	The solution of the generalized Kepler's equation. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2583-2589.	4.4	4
32	PPKBZ9 $$\mathcal{A}, \mathcal{S}\mathcal{A}$$ Two Orbit Propagators Based on an Analytical Theory. Journal of the Astronautical Sciences, 2011, 58, 643-660.	1.5	3
33	A Note about Certain Arbitrariness in the Solution of the Homological Equation in DepritÃ¢€™s Method. Mathematical Problems in Engineering, 2015, 2015, 1-10.	1.1	3
34	Communications between the Poisson series processor PSPC and general scientific software. Mathematics and Computers in Simulation, 2001, 57, 307-315.	4.4	1
35	Higher-Order Analytical Attitude Propagation of an Oblate Rigid Body under Gravity-Gradient Torque. Mathematical Problems in Engineering, 2012, 2012, 1-15.	1.1	1
36	an e-Science project in Astrodynamics and Celestial Mechanics fields. Computer Physics Communications, 2013, 184, 1381-1386.	7.5	1

#	Article	IF	Citations
37	Extending the hybrid methodology for orbit propagation by fitting techniques. Neurocomputing, 2019, 354, 49-60.	5.9	1
38	High-Fidelity Semianalytical Theory for a Low Lunar Orbit. Journal of Guidance, Control, and Dynamics, 2019, 42, 163-167.	2.8	1
39	Hybrid Orbit Propagator Based on Neural Networks. Multivariate Time Series Forecasting Approach. Advances in Intelligent Systems and Computing, 2022, , 695-705.	0.6	1
40	Symbolic Solution of Keplerâ€™s Generalized Equation. Lecture Notes in Computer Science, 2003, , 858-866.	1.3	1
41	Forecasting Satellite Trajectories by Interpolating Hybrid Orbit Propagators. Lecture Notes in Computer Science, 2017, , 650-661.	1.3	1
42	NonDyWebTools an e-Science and e-Learning project. , 2010, , .		0
43	Symbolic-Numeric Cooperation in an Open Science Project. , 2010, , .		0
44	Numerical Validation of the Delaunay Normalization and the Krylov-Bogoliubov-Mitropolsky Method. Mathematical Problems in Engineering, 2014, 2014, 1-14.	1.1	0
45	Hybrid Analytical-Statistical Models. Lecture Notes in Computer Science, 2011, , 450-462.	1.3	0
46	GITHUB AND GITHUB CLASSROOM AS AN EDUCATIONAL RESOURCE. , 2019, , .		0
47	Uncertainty Propagation Using Hybrid Methods. Advances in Intelligent Systems and Computing, 2021, , 709-717.	0.6	0