

# Juan FÃ©lix San-Juan

## List of Publications by Year in descending order

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47  
papers

422  
citations

758635

12  
h-index

839053

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. <i>Journal of Guidance, Control, and Dynamics</i> , 2005, 28, 291-297.	1.6	42
2	Delaunay variables approach to the elimination of the perigee in Artificial Satellite Theory. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2014, 120, 39-56.	0.5	24
3	On the third-body perturbations of high-altitude orbits. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2012, 113, 435-452.	0.5	22
4	End-of-life disposal of high elliptical orbit missions: The case of INTEGRAL. <i>Advances in Space Research</i> , 2015, 56, 479-493.	1.2	22
5	Hybrid SGP4 orbit propagator. <i>Acta Astronautica</i> , 2017, 137, 254-260.	1.7	21
6	Multiple Revolution Perturbed Lambert Problem Solvers. <i>Journal of Guidance, Control, and Dynamics</i> , 2018, 41, 2019-2032.	1.6	21
7	The Hénon and Heiles Problem in Three Dimensions.. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998, 08, 1199-1213.	0.7	20
8	Phase Space Structure Around Oblate Planetary Satellites. <i>Journal of Guidance, Control, and Dynamics</i> , 2006, 29, 113-120.	1.6	20
9	Short Term Evolution of Artificial Satellites. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2001, 79, 277-296.	0.5	17
10	The Hénon and Heiles Problem in Three Dimensions.. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 1998, 08, 1215-1229.	0.7	16
11	Optimal Earth's reentry disposal of the Galileo constellation. <i>Advances in Space Research</i> , 2018, 61, 1097-1120.	1.2	15
12	HEOSAT: a mean elements orbit propagator program for highly elliptical orbits. <i>CEAS Space Journal</i> , 2018, 10, 3-23.	1.1	15
13	ATESAT: A symbolic processor for artificial satellite theory. <i>Mathematics and Computers in Simulation</i> , 1998, 45, 497-510.	2.4	12
14	First-Order Analytical Solution for Spacecraft Motion About (433) Eros. <i>Journal of Guidance, Control, and Dynamics</i> , 2004, 27, 290-293.	1.6	11
15	Secular motion around synchronously orbiting planetary satellites. <i>Chaos</i> , 2005, 15, 043101.	1.0	11
16	Application of Computational Intelligence in Order to Develop Hybrid Orbit Propagation Methods. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-11.	0.6	10
17	Exploring the long-term dynamics of perturbed Keplerian motion in high degree potential fields. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020, 82, 105053.	1.7	10
18	A note on lower bounds for relative equilibria in the main problem of artificial satellite theory. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2007, 99, 69-83.	0.5	8

#	ARTICLE	IF	CITATIONS
19	Deep Resonant GPS-Dynamics Due to the Geopotential. Journal of the Astronautical Sciences, 2011, 58, 661-676.	0.8	8
20	An Economic Hybrid Analytical Orbit Propagator Program Based on SARIMA Models. Mathematical Problems in Engineering, 2012, 2012, 1-15.	0.6	8
21	Hybrid perturbation methods based on statistical time series models. Advances in Space Research, 2016, 57, 1641-1651.	1.2	8
22	On Bounded Satellite Motion under Constant Radial Propulsive Acceleration. Mathematical Problems in Engineering, 2012, 2012, 1-12.	0.6	7
23	Averaging Tesseral Effects: Closed Form Relegation versus Expansions of Elliptic Motion. Mathematical Problems in Engineering, 2013, 2013, 1-11.	0.6	7
24	Long-term evolution of Galileo operational orbits by canonical perturbation theory. Acta Astronautica, 2014, 94, 646-655.	1.7	7
25	On the Hénon 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.	0.9	6
26	Semianalytic Integration of High-Altitude Orbits under Lunisolar Effects. Mathematical Problems in Engineering, 2012, 2012, 1-17.	0.6	6
27	Precise Analytical Computation of Frozen-Eccentricity, Low Earth Orbits in a Tesseral Potential. Mathematical Problems in Engineering, 2013, 2013, 1-13.	0.6	6
28	Is symbolic integration better than numerical integration in satellite dynamics?. Applied Mathematics Letters, 2004, 17, 59-63.	1.5	5
29	Deprit's Elimination of the Parallax Revisited. Journal of the Astronautical Sciences, 2013, 60, 137-148.	0.8	4
30	Efficient semi-analytic integration of GNSS orbits under tesseral effects. Acta Astronautica, 2014, 102, 355-366.	1.7	4
31	The solution of the generalized Kepler's equation. Monthly Notices of the Royal Astronomical Society, 2018, 473, 2583-2589.	1.6	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.	0.8	3
33	A Note about Certain Arbitrariness in the Solution of the Homological Equation in Deprit's Method. Mathematical Problems in Engineering, 2015, 2015, 1-10.	0.6	3
34	Communications between the Poisson series processor PSPC and general scientific software. Mathematics and Computers in Simulation, 2001, 57, 307-315.	2.4	1
35	Higher-Order Analytical Attitude Propagation of an Oblate Rigid Body under Gravity-Gradient Torque. Mathematical Problems in Engineering, 2012, 2012, 1-15.	0.6	1
36	an e-Science project in Astrodynamics and Celestial Mechanics fields. Computer Physics Communications, 2013, 184, 1381-1386.	3.0	1

#	ARTICLE	IF	CITATIONS
37	Extending the hybrid methodology for orbit propagation by fitting techniques. Neurocomputing, 2019, 354, 49-60.	3.5	1
38	High-Fidelity Semianalytical Theory for a Low Lunar Orbit. Journal of Guidance, Control, and Dynamics, 2019, 42, 163-167.	1.6	1
39	Hybrid Orbit Propagator Based on Neural Networks. Multivariate Time Series Forecasting Approach. Advances in Intelligent Systems and Computing, 2022, , 695-705.	0.5	1
40	Symbolic Solution of Kepler's Generalized Equation. Lecture Notes in Computer Science, 2003, , 858-866.	1.0	1
41	Forecasting Satellite Trajectories by Interpolating Hybrid Orbit Propagators. Lecture Notes in Computer Science, 2017, , 650-661.	1.0	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.	0.6	0
45	Hybrid Analytical-Statistical Models. Lecture Notes in Computer Science, 2011, , 450-462.	1.0	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.	0.5	0