

# JosÃ© Antonio LÃ³pez OrtÃ³-

## List of Publications by Year in descending order

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30  
papers

69  
citations

1684188

5  
h-index

1720034

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g-index

33  
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33  
docs citations

33  
times ranked

38  
citing authors

#	ARTICLE	IF	CITATIONS
1	A finite volume method with a modified ENO scheme using a Hermite interpolation to solve advection diffusion equations. International Journal for Numerical Methods in Engineering, 2001, 50, 2339-2371.	2.8	7
2	A note on the use of the generalized Sundman transformations as temporal variables in celestial mechanics. International Journal of Computer Mathematics, 2012, 89, 433-442.	1.8	7
3	A formulation to obtain semi-analytical planetary theories using true anomalies as temporal variables. Journal of Computational and Applied Mathematics, 2007, 204, 77-83.	2.0	5
4	An improved algorithm to develop semi-analytical planetary theories using Sundman generalized variables. Journal of Computational and Applied Mathematics, 2015, 275, 403-411.	2.0	5
5	A critical discussion on parametric and nonparametric regression methods applied to Hipparcos-FK5 residuals. Astronomy and Astrophysics, 2004, 418, 1159-1170.	5.1	5
6	Temporal Variations of Perturbed Elliptic Elements: A Semi-Analytical Approach. Celestial Mechanics and Dynamical Astronomy, 1997, 68, 193-198.	1.4	4
7	Semi-analytical integration algorithms based on the use of several kinds of anomalies as temporal variable. Planetary and Space Science, 2008, 56, 1862-1868.	1.7	4
8	A note on the first-order theories of equilibrium figures of celestial bodies. International Journal of Computer Mathematics, 2011, 88, 1969-1978.	1.8	4
9	Computational tools to construct semi-analytical planetary theories. International Journal of Computer Mathematics, 2008, 85, 497-508.	1.8	3
10	APPLICATION OF VECTOR SPHERICAL HARMONICS AND KERNEL REGRESSION TO THE COMPUTATIONS OF OMM PARAMETERS. Astronomical Journal, 2015, 149, 129.	4.7	3
11	A new bi-parametric family of temporal transformations to improve the integration algorithms in the study of the orbital motion. Journal of Computational and Applied Mathematics, 2017, 318, 479-490.	2.0	3
12	Figures of equilibrium in close binary systems. Celestial Mechanics and Dynamical Astronomy, 1992, 53, 311-322.	1.4	2
13	A method to improve the computation of tidal potential in the equilibrium configuration of a close binary system. International Journal of Computer Mathematics, 2009, 86, 1831-1840.	1.8	2
14	A Note on the Use of Generalized Sundman Anomalies in the Numerical Integration of the Elliptical Orbital Motion. Abstract and Applied Analysis, 2014, 2014, 1-8.	0.7	2
15	A Study about the Integration of the Elliptical Orbital Motion Based on a Special One-Parametric Family of Anomalies. Abstract and Applied Analysis, 2014, 2014, 1-11.	0.7	2
16	Geometrical definition of a continuous family of time transformations generalizing and including the classic anomalies of the elliptic two-body problem. Journal of Computational and Applied Mathematics, 2017, 309, 482-492.	2.0	2
17	Two algorithms to construct a consistent first order theory of equilibrium figures of close binary systems. Journal of Computational and Applied Mathematics, 2017, 318, 14-25.	2.0	2
18	Geometrical definition of a continuous family of time transformations on the hyperbolic two-body problem. Journal of Computational and Applied Mathematics, 2018, 330, 1081-1092.	2.0	2

#	ARTICLE	IF	CITATIONS
19	An improved algorithm of second order to construct consistent theories of equilibrium figures of rotating celestial bodies. <i>Journal of Computational and Applied Mathematics</i> , 2019, 354, 402-413.	2.0	2
20	Analysis of Systematic Differences of Astrometric Catalogs in a Band. <i>Astronomical Journal</i> , 2004, 127, 549-559.	4.7	1
21	Accurate Analytical and Statistical Approaches to Reduce O-C Discrepancies in the Precessional Parameters. <i>Publications of the Astronomical Society of the Pacific</i> , 2009, 121, 167-173.	3.1	1
22	Fixed Point Method to Analyze Differences between Hipparcos and ICRF2. <i>Abstract and Applied Analysis</i> , 2014, 2014, 1-7.	0.7	1
23	Automated astrographic plates measuring process. <i>Astrophysics and Space Science</i> , 1990, 171, 289-292.	1.4	0
24	A Numerical Method for the Dynamical Correction of Celestial Reference Frames from Non-Regular Samples. <i>Mathematical Modelling and Algorithms</i> , 2005, 4, 265-273.	0.5	0
25	Corrigendum to "A Note on the Use of Generalized Sundman Anomalies in the Numerical Integration of the Elliptical Orbital Motion". <i>Abstract and Applied Analysis</i> , 2016, 2016, 1-1.	0.7	0
26	Design of a Mathematica package to develop the product of some spherical functions as linear combinations of themselves. <i>Computational and Mathematical Methods</i> , 2019, 1, e1052.	0.8	0
27	Global and Local Three-dimensional Studies of The Residual Vector Field from 2MASS and Hipparcos-2 Catalog. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 044501.	3.1	0
28	An alternative method to construct a consistent second-order theory on the equilibrium figures of rotating celestial bodies. <i>Journal of Computational and Applied Mathematics</i> , 2022, 404, 113305.	2.0	0
29	An improved C++ Poisson series processor with its applications. <i>Computational and Mathematical Methods</i> , 2021, 3, e1143.	0.8	0
30	Study of a Set of Symmetric Temporal Transformations for the Study of the Orbital Motion. <i>Computational and Mathematical Methods</i> , 2022, 2022, 1-10.	0.8	0