

Elbaz I Abouelmagd

List of Publications by Year in descending order

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Version: 2024-02-01

65
papers

1,632
citations

159358

30
h-index

315357

38
g-index

65
all docs

65
docs citations

65
times ranked

279
citing authors

#	ARTICLE	IF	CITATIONS
1	SOME RECENT DEVELOPMENTS ON DYNAMICAL \hat{a}_n -DISCRETE FRACTIONAL TYPE INEQUALITIES IN THE FRAME OF NONSINGULAR AND NONLOCAL KERNELS. <i>Fractals</i> , 2022, 30, .	1.8	95
2	Existence and stability of triangular points in the restricted three-body problem with numerical applications. <i>Astrophysics and Space Science</i> , 2012, 342, 45-53.	0.5	80
3	Periodic orbits under combined effects of oblateness and radiation in the restricted problem of three bodies. <i>Astrophysics and Space Science</i> , 2012, 341, 331-341.	0.5	72
4	Out of plane equilibrium points locations and the forbidden movement regions in the restricted three-body problem with variable mass. <i>Astrophysics and Space Science</i> , 2015, 357, 1.	0.5	66
5	NEW DEVELOPMENTS IN WEIGHTED n -FOLD TYPE INEQUALITIES VIA DISCRETE GENERALIZED \hat{a}_n -PROPORTIONAL FRACTIONAL OPERATORS. <i>Fractals</i> , 2022, 30, .	1.8	58
6	The motion around the libration points in the restricted three-body problem with the effect of radiation and oblateness. <i>Astrophysics and Space Science</i> , 2013, 344, 321-332.	0.5	57
7	The effect of oblateness in the perturbed restricted three-body problem. <i>Meccanica</i> , 2013, 48, 2479-2490.	1.2	51
8	Periodic Solution of the Two-Body Problem by KB Averaging Method Within Frame of the Modified Newtonian Potential. <i>Journal of the Astronautical Sciences</i> , 2018, 65, 291-306.	0.8	46
9	On Higher Order Resonant Periodic Orbits in the Photo-Gravitational Planar Restricted Three-Body Problem with Oblateness. <i>Journal of the Astronautical Sciences</i> , 2019, 66, 475-505.	0.8	44
10	On the perturbed restricted three-body problem. <i>Applied Mathematics and Nonlinear Sciences</i> , 2016, 1, 123-144.	0.9	41
11	The effect of zonal harmonic coefficients in the framework of the restricted three-body problem. <i>Advances in Space Research</i> , 2015, 55, 1660-1672.	1.2	40
12	Periodic Orbits of the Planar Anisotropic Kepler Problem. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017, 27, 1750039.	0.7	40
13	Basins of convergence of equilibrium points in the restricted three-body problem with modified gravitational potential. <i>Chaos, Solitons and Fractals</i> , 2020, 134, 109704.	2.5	40
14	The effect of photogravitational force and oblateness in the perturbed restricted three-body problem. <i>Astrophysics and Space Science</i> , 2013, 346, 51-69.	0.5	39
15	Reduction the secular solution to periodic solution in the generalized restricted three-body problem. <i>Astrophysics and Space Science</i> , 2014, 350, 495-505.	0.5	39
16	The planar restricted three-body problem when both primaries are triaxial rigid bodies: Equilibrium points and periodic orbits. <i>Astrophysics and Space Science</i> , 2016, 361, 1.	0.5	39
17	The analysis of restricted five-body problem within frame of variable mass. <i>New Astronomy</i> , 2019, 70, 12-21.	0.8	39
18	Periodic solution of the nonlinear Sitnikov restricted three-body problem. <i>New Astronomy</i> , 2020, 75, 101319.	0.8	39

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19	Periodic orbits around the collinear libration points. Journal of Nonlinear Science and Applications, 2016, 09, 1716-1727.	0.4	39
20	Analysis of the spatial quantized three-body problem. Results in Physics, 2020, 17, 103067.	2.0	38
21	Analytical Study of Periodic Solutions on Perturbed Equatorial Two-Body Problem. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540040.	0.7	37
22	Dynamics of a dumbbell satellite under the zonal harmonic effect of an oblate body. Communications in Nonlinear Science and Numerical Simulation, 2015, 20, 1057-1069.	1.7	35
23	The motion properties of the infinitesimal body in the framework of bicircular Sun perturbed Earth-Moon system. New Astronomy, 2019, 73, 101282.	0.8	35
24	Periodic orbit in the frame work of restricted three bodies under the asteroids belt effect. Applied Mathematics and Nonlinear Sciences, 2020, 5, 157-176.	0.9	35
25	On the libration collinear points in the restricted three body problem. Open Physics, 2017, 15, 58-67.	0.8	34
26	A First Order Automated Lie Transform. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540026.	0.7	33
27	Numerical integration of the restricted three-body problem with Lie series. Astrophysics and Space Science, 2014, 354, 369-378.	0.5	32
28	Numerical integration of a relativistic two-body problem via a multiple scales method. Astrophysics and Space Science, 2016, 361, 1.	0.5	32
29	A Planar Five-body Problem in a Framework of Heterogeneous and Mass Variation Effects. Astronomical Journal, 2020, 160, 216.	1.9	32
30	Stability of the Triangular Points Under Combined Effects of Radiation and Oblateness in the Restricted Three-Body Problem. Earth, Moon and Planets, 2013, 110, 143-155.	0.3	31
31	Three-dimensional flow of Eyring Powell nanofluid over an exponentially stretching sheet. International Journal of Numerical Methods for Heat and Fluid Flow, 2015, 25, 593-616.	1.6	28
32	About influence of differential rotation in convection zone of gaseous or fluid giant planet (Uranus) onto the parameters of orbits of satellites. European Physical Journal Plus, 2021, 136, 1.	1.2	27
33	The perturbed photogravitational restricted three-body problem: Analysis of resonant periodic orbits. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 849-875.	0.6	19
34	Libration points in the restricted three-body problem: Euler angles, existence and stability. Discrete and Continuous Dynamical Systems - Series S, 2019, 12, 703-710.	0.6	17
35	On Robe's restricted problem with a modified Newtonian potential. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150005.	0.8	16
36	A novel type of ER3BP introduced for hierarchical configuration with variable angular momentum of secondary planet. Archive of Applied Mechanics, 2021, 91, 4599-4607.	1.2	15

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37	Periodic orbits for the perturbed planar circular restricted 3-body problem. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 1007-1020.	0.5	15
38	Introducing a new version of the restricted three-body problem with a continuation fraction potential. New Astronomy, 2020, 81, 101444.	0.8	9
39	Effect of Moon perturbation on the energy curves and equilibrium points in the Sun-Earth-Moon system. New Astronomy, 2021, 84, 101505.	0.8	9
40	A Quantized Hill's Dynamical System. Advances in Astronomy, 2021, 2021, 1-7.	0.5	9
41	Analysis of nominal halo orbits in the Sun-Earth system. Archive of Applied Mechanics, 2021, 91, 4751-4763.	1.2	9
42	Approximation Solution of the Nonlinear Circular Sitnikov Restricted Four-Body Problem. Symmetry, 2021, 13, 1966.	1.1	9
43	Mode-mismatched estimator design for Markov jump genetic regulatory networks with random time delays. Neurocomputing, 2015, 168, 1121-1131.	3.5	8
44	Periodic Solutions of Nonlinear Relative Motion Satellites. Symmetry, 2021, 13, 595.	1.1	8
45	On the Periodic Solutions for the Perturbed Spatial Quantized Hill Problem. Mathematics, 2022, 10, 614.	1.1	8
46	Variable mass motion in the Hénon-Heiles system. Modern Physics Letters A, 2021, 36, 2150150.	0.5	7
47	Effect of the Planetesimal Belt on the Dynamics of the Restricted Problem of 2 + 2 Bodies. Applied Sciences (Switzerland), 2022, 12, 424.	1.3	7
48	Gravitational potential formulae between two bodies with finite dimensions. Astronomische Nachrichten, 2020, 341, 656-668.	0.6	6
49	First-order resonant in periodic orbits. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150011.	0.8	6
50	Stability of equilibria points for a dumbbell satellite when the central body is oblate spheroid. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1047-1054.	0.6	6
51	Analysis of Equilibrium Points in Quantized Hill System. Mathematics, 2022, 10, 2186.	1.1	6
52	Controlling the Perturbations of Solar Radiation Pressure on the Lorentz Spacecraft. Symmetry, 2020, 12, 1423.	1.1	5
53	Fifth order solution of halo orbits via Lindstedt-Poincaré technique and differential correction method. New Astronomy, 2021, 87, 101585.	0.8	5
54	Evolution of Periodic Orbits within the Frame of Formation Satellites. Advances in Astronomy, 2020, 2020, 1-17.	0.5	5

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55	A Green and Naghdi Model in a Two-Dimensional Thermoelastic Diffusion Problem for a Half Space. Journal of Computational and Theoretical Nanoscience, 2015, 12, 280-286.	0.4	4
56	The dynamics of the relativistic Kepler problem. Results in Physics, 2020, 19, 103406.	2.0	4
57	Dynamical Substitutes and Energy Surfaces in the Bicircular Sun-Earth-Moon System \mathbb{R}^3 . Astronomy Letters, 2021, 47, 331-344.	0.1	4
58	Lie series solution of the bicircular problem. Results in Physics, 2021, 31, 104848.	2.0	4
59	A New Model Emerged from the Three-body Problem within Frame of Variable Mass. Astronomy Reports, 2021, 65, 1170-1178.	0.2	4
60	Study of Lagrange Points in the Earth-Moon System with Continuation Fractional Potential. Fractal and Fractional, 2022, 6, 321.	1.6	4
61	Dynamics of a tethered satellite with variable mass. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1035-1045.	0.6	3
62	Nonlinear regression multivariate model for first order resonant periodic orbits and error analysis. Planetary and Space Science, 2022, 219, 105516.	0.9	3
63	Stability analysis of first order resonant periodic orbit. Icarus, 2022, 387, 115165.	1.1	3
64	Dynamical Properties of Body with Variable Mass in a Fifth-degree Hénon-Heiles System. Astronomy Reports, 2022, 66, 64-74.	0.2	2
65	PREFACE: Special Issue on Dynamical Systems and Their Applications to Engineering, Economy and Health Sciences. Fractals, 2022, 30, .	1.8	0