Elbaz I Abouelmagd

List of Publications by Year
in descending order

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	NEW DEVELOPMENTS IN WEIGHTED n-FOLD TYPE INEQUALITIES VIA DISCRETE GENERALIZED â„¸-PROPORTIONAL FRACTIONAL OPERATORS. Fractals, 2022, 30, .	1.8	58
2	SOME RECENT DEVELOPMENTS ON DYNAMICAL â„•DISCRETE FRACTIONAL TYPE INEQUALITIES IN THE FRAME OF NONSINGULAR AND NONLOCAL KERNELS. Fractals, 2022, 30, .	1.8	95
3	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
4	PREFACE: Special Issue on Dynamical Systems and Their Applications to Engineering, Economy and Health Sciences. Fractals, 2022, 30, .	1.8	0
5	Dynamical Properties of Body with Variable Mass in a Fifth-degree HÃ©nonâ€“Heiles System. Astronomy Reports, 2022, 66, 64-74.	0.2	2
6	On the Periodic Solutions for the Perturbed Spatial Quantized Hill Problem. Mathematics, 2022, 10, 614.	1.1	8
7	Analysis of Equilibrium Points in Quantized Hill System. Mathematics, 2022, 10, 2186.	1.1	6
8	Study of Lagrange Points in the Earthâ€“Moon System with Continuation Fractional Potential. Fractal and Fractional, 2022, 6, 321.	1.6	4
9	Nonlinear regression multivariate model for first order resonant periodic orbits and error analysis. Planetary and Space Science, 2022, 219, 105516.	0.9	3
10	Stability analysis of first order resonant periodic orbit. Icarus, 2022, 387, 115165.	1.1	3
11	Effect of Moon perturbation on the energy curves and equilibrium points in the Sunâ€“Earthâ€“Moon system. New Astronomy, 2021, 84, 101505.	0.8	9
12	On Robeâ€™s restricted problem with a modified Newtonian potential. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150005.	0.8	16
13	First-order resonant in periodic orbits. International Journal of Geometric Methods in Modern Physics, 2021, 18, 2150011.	0.8	6
14	Periodic Solutions of Nonlinear Relative Motion Satellites. Symmetry, 2021, 13, 595.	1.1	8
15	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
16	Dynamical Substitutes and Energy Surfaces in the Bicircular Sunâ€“Earthâ€“Moon System$${}^{mathbf{*}}}$$. Astronomy Letters, 2021, 47, 331-344.	0.1	4
17	A Quantized Hillâ€™s Dynamical System. Advances in Astronomy, 2021, 2021, 1-7.	0.5	9
18	Variable mass motion in the HÃ©nonâ€“Heiles system. Modern Physics Letters A, 2021, 36, 2150150.	0.5	7

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19	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
20	Fifth order solution of halo orbits via Lindstedtâ€“PoincarÃ© technique and differential correction method. New Astronomy, 2021, 87, 101585.	0.8	5
21	Analysis of nominal halo orbits in the Sunâ€“Earth system. Archive of Applied Mechanics, 2021, 91, 4751-4763.	1.2	9
22	Approximation Solution of the Nonlinear Circular Sitnikov Restricted Fourâ€“Body Problem. Symmetry, 2021, 13, 1966.	1.1	9
23	Lie series solution of the bicircular problem. Results in Physics, 2021, 31, 104848.	2.0	4
24	A New Model Emerged from the Three-body Problem within Frame of Variable Mass. Astronomy Reports, 2021, 65, 1170-1178.	0.2	4
25	Periodic solution of the nonlinear Sitnikov restricted three-body problem. New Astronomy, 2020, 75, 101319.	0.8	39
26	The dynamics of the relativistic Kepler problem. Results in Physics, 2020, 19, 103406.	2.0	4
27	Controlling the Perturbations of Solar Radiation Pressure on the Lorentz Spacecraft. Symmetry, 2020, 12, 1423.	1.1	5
28	Gravitational potential formulae between two bodies with finite dimensions. Astronomische Nachrichten, 2020, 341, 656-668.	0.6	6
29	Analysis of the spatial quantized three-body problem. Results in Physics, 2020, 17, 103067.	2.0	38
30	Introducing a new version of the restricted three-body problem with a continuation fraction potential. New Astronomy, 2020, 81, 101444.	0.8	9
31	Basins of convergence of equilibrium points in the restricted three-body problem with modified gravitational potential. Chaos, Solitons and Fractals, 2020, 134, 109704.	2.5	40
32	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
33	A Planar Five-body Problem in a Framework of Heterogeneous and Mass Variation Effects. Astronomical Journal, 2020, 160, 216.	1.9	32
34	Evolution of Periodic Orbits within the Frame of Formation Satellites. Advances in Astronomy, 2020, 2020, 1-17.	0.5	5
35	The motion properties of the infinitesimal body in the framework of bicircular Sun perturbed Earthâ€“Moon system. New Astronomy, 2019, 73, 101282.	0.8	35
36	The analysis of restricted fiveâ€“body problem within frame of variable mass. New Astronomy, 2019, 70, 12-21.	0.8	39

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37	On Higher Order Resonant Periodic Orbits in the Photoâ€“Gravitational Planar Restricted Threeâ€“Body Problem with Oblateness. Journal of the Astronautical Sciences, 2019, 66, 475-505.	0.8	44
38	Periodic orbits for the perturbed planar circular restricted 3â€“body problem. Discrete and Continuous Dynamical Systems - Series B, 2019, 24, 1007-1020.	0.5	15
39	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
40	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
41	Periodic Solution of the Twoâ€“Body Problem by KB Averaging Method Within Frame of the Modified Newtonian Potential. Journal of the Astronautical Sciences, 2018, 65, 291-306.	0.8	46
42	Periodic Orbits of the Planar Anisotropic Kepler Problem. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2017, 27, 1750039.	0.7	40
43	On the libration collinear points in the restricted three â€“ body problem. Open Physics, 2017, 15, 58-67.	0.8	34
44	The planar restricted three-body problem when both primaries are triaxial rigid bodies: Equilibrium points and periodic orbits. Astrophysics and Space Science, 2016, 361, 1.	0.5	39
45	Numerical integration of a relativistic two-body problem via a multiple scales method. Astrophysics and Space Science, 2016, 361, 1.	0.5	32
46	On the perturbed restricted three-body problem. Applied Mathematics and Nonlinear Sciences, 2016, 1, 123-144.	0.9	41
47	Periodic orbits around the collinear libration points. Journal of Nonlinear Science and Applications, 2016, 09, 1716-1727.	0.4	39
48	A First Order Automated Lie Transform. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2015, 25, 1540026.	0.7	33
49	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
50	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
51	The effect of zonal harmonic coefficients in the framework of the restricted three-body problem. Advances in Space Research, 2015, 55, 1660-1672.	1.2	40
52	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
53	Out of plane equilibrium points locations and the forbidden movement regions in the restricted three-body problem with variable mass. Astrophysics and Space Science, 2015, 357, 1.	0.5	66
54	Mode-mismatched estimator design for Markov jump genetic regulatory networks with random time delays. Neurocomputing, 2015, 168, 1121-1131.	3.5	8

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55	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
56	Dynamics of a tethered satellite with variable mass. Discrete and Continuous Dynamical Systems - Series S, 2015, 8, 1035-1045.	0.6	3
57	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
58	Reduction the secular solution to periodic solution in the generalized restricted three-body problem. Astrophysics and Space Science, 2014, 350, 495-505.	0.5	39
59	Numerical integration of the restricted three-body problem with Lie series. Astrophysics and Space Science, 2014, 354, 369-378.	0.5	32
60	The effect of oblateness in the perturbed restricted three-body problem. Meccanica, 2013, 48, 2479-2490.	1.2	51
61	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
62	The motion around the libration points in the restricted three-body problem with the effect of radiation and oblateness. Astrophysics and Space Science, 2013, 344, 321-332.	0.5	57
63	The effect of photogravitational force and oblateness in the perturbed restricted three-body problem. Astrophysics and Space Science, 2013, 346, 51-69.	0.5	39
64	Periodic orbits under combined effects of oblateness and radiation in the restricted problem of three bodies. Astrophysics and Space Science, 2012, 341, 331-341.	0.5	72
65	Existence and stability of triangular points in the restricted three-body problem with numerical applications. Astrophysics and Space Science, 2012, 342, 45-53.	0.5	80