

Euaggelos E Zotos

List of Publications by Year in Descending Order

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Version: 2024-04-27

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

124
papers

1,059
citations

17
h-index

24
g-index

135
ext. papers

1,239
ext. citations

3.4
avg, IF

5.93
L-index

#	Paper	IF	Citations
124	Equilibrium Points and Networks of Periodic Orbits in the Pseudo-Newtonian Planar Circular Restricted Three-body Problem. <i>Astronomical Journal</i> , 2022 , 163, 75	4.9	0
123	Equilibrium dynamics of the restricted three-body problem with radiating prolate bodies. <i>Results in Physics</i> , 2022 , 34, 105240	3.7	0
122	Applying chaos indicators to Bianchi cosmological models. <i>Chaos, Solitons and Fractals</i> , 2022 , 158, 112108	3.3	0
121	Manifold dynamics and periodic orbits in a multiwell potential. <i>Chaos, Solitons and Fractals</i> , 2022 , 160, 112208	9.3	
120	Orbital and equilibrium dynamics of a multiwell potential. <i>Results in Physics</i> , 2022 , 38, 105627	3.7	
119	On the equilibria of the restricted three-body problem with a triaxial rigid body, II: prolate primary. <i>Results in Physics</i> , 2022 , 38, 105623	3.7	
118	Orbital Dynamics in a Triaxial Barred Galaxy Model. I. The 2D System. <i>Astrophysical Journal</i> , 2021 , 920, 61	4.7	0
117	Quantitative orbit classification of the planar restricted three-body problem with application to the motion of a satellite around Jupiter. <i>Chaos, Solitons and Fractals</i> , 2021 , 152, 111444	9.3	0
116	Using chaos indicators to determine vaccine influence on epidemic stabilization. <i>Physical Review E</i> , 2021 , 103, 032212	2.4	1
115	On the equilibria of the restricted three-body problem with a triaxial rigid body - I. Oblate primary. <i>Results in Physics</i> , 2021 , 23, 103990	3.7	2
114	Numerical investigation on the Hill's type lunar problem with homogeneous potential. <i>Meccanica</i> , 2021 , 56, 2183	2.1	1
113	On the equilibria of the restricted four-body problem with triaxial rigid primaries - I. Oblate bodies. <i>Chaos, Solitons and Fractals</i> , 2021 , 142, 110500	9.3	2
112	Classification of orbits in three-dimensional exoplanetary systems. <i>Astronomy and Astrophysics</i> , 2021 , 645, A128	5.1	1
111	Mapping exomoon trajectories around Earth-like exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021 , 502, 5292-5301	4.3	1
110	The basin boundary of the breakup channel in chaotic rearrangement scattering. <i>Nonlinear Dynamics</i> , 2021 , 104, 705-725	5	
109	Fractal Basins of Convergence of a Seventh-Order Generalized Hénon-Heiles Potential. <i>Advances in Astronomy</i> , 2021 , 2021, 1-11	0.9	
108	Periodic orbits and equilibria for a seventh-order generalized Hénon-Heiles Hamiltonian system. <i>Journal of Geometry and Physics</i> , 2021 , 167, 104290	1.2	1

107	A New Formulation of a Hénon-Heiles Potential with Additional Singular Gravitational Terms. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050197	2	4
106	Orbit Taxonomy in an Electromagnetic Binary System of Two Magnetic Dipoles. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2030011	2	0
105	Networks of planar symmetric periodic orbits in a barred galaxy model. <i>Astronomische Nachrichten</i> , 2020 , 341, 684-702	0.7	
104	Determining the nature of motion around Jupiter-like exoplanets using the elliptic restricted three-body problem. <i>Planetary and Space Science</i> , 2020 , 187, 104945	2	2
103	Introducing a new version of the restricted three-body problem with a continuation fraction potential. <i>New Astronomy</i> , 2020 , 81, 101444	1.8	3
102	Orbit classification in exoplanetary systems. <i>Astronomy and Astrophysics</i> , 2020 , 634, A60	5.1	5
101	Determining the Properties of the Basins of Convergence in the Generalized Hénon-Heiles System. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050007	2	3
100	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	9.3	17
99	Families of periodic orbits in a double-barred galaxy model. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 89, 105283	3.7	0
98	Orbit classification in a disk galaxy model with a pseudo-Newtonian central black hole. <i>Astronomy and Astrophysics</i> , 2020 , 643, A33	5.1	0
97	The grain size survival threshold in one-planet post-main-sequence exoplanetary systems. <i>Astronomy and Astrophysics</i> , 2020 , 637, A14	5.1	4
96	A three-dimensional dynamical model for double-barred galaxies, escape dynamics and the role of the NHIMs. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2020 , 80, 104989	3.7	4
95	Orbital analysis in the planar circular Copenhagen problem using polar coordinates. <i>Mathematical Methods in the Applied Sciences</i> , 2020 , 43, 2020-2031	2.3	1
94	Measuring the transition between nonhyperbolic and hyperbolic regimes in open Hamiltonian systems. <i>Nonlinear Dynamics</i> , 2020 , 99, 3029-3039	5	10
93	On the dynamics of a seventh-order generalized Hénon-Heiles potential. <i>Results in Physics</i> , 2020 , 18, 103278	3.7	3
92	Short-term stability of particles in the WD J0914+1914 white dwarf planetary system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020 , 497, 5171-5181	4.3	0
91	Convergence properties of equilibria in the restricted three-body problem with prolate primaries. <i>Astronomische Nachrichten</i> , 2020 , 341, 887-898	0.7	2
90	Exploring the Location and Linear Stability of the Equilibrium Points in the Equilateral Restricted Four-Body Problem. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2020 , 30, 2050155	2	3

89	Numerical investigation for the dynamics of the planar circular Pluto-Charon system. <i>Planetary and Space Science</i> , 2019 , 179, 104718	2	1
88	Escaping from a degenerate version of the four hill potential. <i>Chaos, Solitons and Fractals</i> , 2019 , 126, 12-22	9.3	1
87	Orbit classification in a pseudo-Newtonian Copenhagen problem with Schwarzschild-like primaries. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 487, 2340-2353	4.3	3
86	Orbital and escape dynamics in barred galaxies IV. Heteroclinic connections. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 487, 1233-1247	4.3	6
85	On the Convergence Dynamics of the Sitnikov Problem with Non-spherical Primaries. <i>International Journal of Applied and Computational Mathematics</i> , 2019 , 5, 1	1.3	3
84	On the Newton-Raphson basins of convergence associated with the libration points in the axisymmetric restricted five-body problem: The concave configuration. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 112, 25-47	2.8	16
83	Orbit classification and networks of periodic orbits in the planar circular restricted five-body problem. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 111, 119-141	2.8	6
82	Unveiling the basins of convergence in the pseudo-Newtonian planar circular restricted four-body problem. <i>New Astronomy</i> , 2019 , 66, 52-67	1.8	7
81	Orbit classification in the Copenhagen problem with oblate primaries. <i>Astronomische Nachrichten</i> , 2019 , 340, 760-770	0.7	1
80	On the nature of the motion of a test particle in the pseudo-Newtonian Hill system. <i>Astrophysics and Space Science</i> , 2019 , 364, 1	1.6	4
79	Networks of periodic orbits in the circular restricted three-body problem with first order post-Newtonian terms. <i>Meccanica</i> , 2019 , 54, 2339-2365	2.1	4
78	On the fractal basins of convergence of the libration points in the axisymmetric five-body problem: The convex configuration. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 109, 80-106	2.8	18
77	On the classification of orbits in the three-dimensional Copenhagen problem with oblate primaries. <i>International Journal of Non-Linear Mechanics</i> , 2019 , 108, 55-71	2.8	3
76	Near-optimal capture in the planar circular restricted Pluto-Charon system. <i>Planetary and Space Science</i> , 2019 , 165, 85-98	2	3
75	Dynamical analysis of bounded and unbounded orbits in a generalized Hénon-Heiles system. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2018 , 382, 904-910	2.3	10
74	Orbital and escape dynamics in barred galaxies III. The 3D system: correlations between the basins of escape and the NHIMs. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 473, 806-825	4.3	7
73	Basins of attraction of equilibrium points in the planar circular restricted five-body problem. <i>Astrophysics and Space Science</i> , 2018 , 363, 1	1.6	36
72	Investigating the Newton-Raphson basins of attraction in the restricted three-body problem with modified Newtonian gravity. <i>Journal of Applied Mathematics and Computing</i> , 2018 , 56, 53-71	1.8	3

71	Revealing the Newton-Raphson basins of convergence in the circular pseudo-Newtonian Sitnikov problem. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 105, 43-54	2.8	7
70	Fractal basins of convergence of libration points in the planar Copenhagen problem with a repulsive quasi-homogeneous Manev-type potential. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 103, 113-127	2.8	21
69	On the Newton-Raphson basins of convergence of the out-of-plane equilibrium points in the Copenhagen problem with oblate primaries. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 103, 93-103	2.8	23
68	Investigating the Basins of Convergence in the Circular Sitnikov Three-Body Problem with Non-spherical Primaries. <i>Few-Body Systems</i> , 2018 , 59, 1	1.6	12
67	Comparing the basins of attraction for several methods in the circular Sitnikov problem with spheroid primaries. <i>Astrophysics and Space Science</i> , 2018 , 363, 1	1.6	4
66	Orbital dynamics in the post-Newtonian planar circular restricted Sun-Jupiter system. <i>International Journal of Modern Physics D</i> , 2018 , 27, 1850036	2.2	15
65	Correlating the escape dynamics and the role of the normally hyperbolic invariant manifolds in a binary system of dwarf spheroidal galaxies. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 99, 182-203	2.8	4
64	Basins of convergence of equilibrium points in the generalized Hénon-Heiles system. <i>International Journal of Non-Linear Mechanics</i> , 2018 , 99, 218-228	2.8	13
63	Basins of Convergence in the Circular Sitnikov Four-Body Problem with Nonspherical Primaries. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2018 , 28, 1830016	2	8
62	Orbit classification in an equal-mass non-spinning binary black hole pseudo-Newtonian system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018 , 477, 5388-5405	4.3	7
61	Comparing the Geometry of the Basins of Attraction, the Speed and the Efficiency of Several Numerical Methods. <i>International Journal of Applied and Computational Mathematics</i> , 2018 , 4, 1	1.3	4
60	Determining the Newton-Raphson basins of attraction in the electromagnetic Copenhagen problem. <i>International Journal of Non-Linear Mechanics</i> , 2017 , 90, 111-123	2.8	16
59	An overview of the escape dynamics in the Hénon-Heiles Hamiltonian system. <i>Meccanica</i> , 2017 , 52, 2615-2630	2.3	8
58	Elucidating the escape dynamics of the four hill potential. <i>Nonlinear Dynamics</i> , 2017 , 89, 135-151	5	4
57	Distinguishing between order and chaos in a simple barred galaxy model. <i>Astronomische Nachrichten</i> , 2017 , 338, 614-620	0.7	1
56	Equilibrium points and basins of convergence in the linear restricted four-body problem with angular velocity. <i>Chaos, Solitons and Fractals</i> , 2017 , 101, 8-19	9.3	16
55	Revealing the basins of convergence in the planar equilateral restricted four-body problem. <i>Astrophysics and Space Science</i> , 2017 , 362, 1	1.6	36
54	Orbit classification in the Hill problem: I. The classical case. <i>Nonlinear Dynamics</i> , 2017 , 89, 901-923	5	6

53	Basins of convergence of equilibrium points in the pseudo-Newtonian planar circular restricted three-body problem. <i>Astrophysics and Space Science</i> , 2017 , 362, 1	1.6	22
52	Investigating the planar circular restricted three-body problem with strong gravitational field. <i>Meccanica</i> , 2017 , 52, 1995-2021	2.1	3
51	Unravelling the escape dynamics and the nature of the normally hyperbolic invariant manifolds in tidally limited star clusters. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017 , 465, 525-546	4.3	7
50	Basins of Convergence of Equilibrium Points in the Generalized Hill Problem. <i>International Journal of Bifurcation and Chaos in Applied Sciences and Engineering</i> , 2017 , 27, 1730043	2	1
49	Comparing the fractal basins of attraction in the Hill problem with oblateness and radiation. <i>Astrophysics and Space Science</i> , 2017 , 362, 1	1.6	24
48	Fractal basin boundaries and escape dynamics in a multiwell potential. <i>Nonlinear Dynamics</i> , 2016 , 85, 1613-1633	5	13
47	Fugitive stars in active galaxies. <i>Nonlinear Dynamics</i> , 2016 , 83, 1477-1496	5	1
46	Escape dynamics and fractal basins boundaries in the three-dimensional Earth-Moon system. <i>Astrophysics and Space Science</i> , 2016 , 361, 1	1.6	12
45	Orbital and escape dynamics in barred galaxies II. The 2D system. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 457, 2583-2603	4.3	12
44	Escape dynamics in a binary system of interacting galaxies. <i>New Astronomy</i> , 2016 , 42, 10-23	1.8	1
43	Determining the type of orbits in the central regions of barred galaxies. <i>Research in Astronomy and Astrophysics</i> , 2016 , 16, 006	1.5	1
42	Fractal basins of attraction in the planar circular restricted three-body problem with oblateness and radiation pressure. <i>Astrophysics and Space Science</i> , 2016 , 361, 1	1.6	55
41	Escape and collision dynamics in the planar equilateral restricted four-body problem. <i>International Journal of Non-Linear Mechanics</i> , 2016 , 86, 66-82	2.8	20
40	Orbital and escape dynamics in barred galaxies III. The 3D system: exploring the role of the normally hyperbolic invariant manifolds. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016 , 463, 3965-3988	4.3	16
39	How does the oblateness coefficient influence the nature of orbits in the restricted three-body problem?. <i>Astrophysics and Space Science</i> , 2015 , 358, 1	1.6	6
38	Comparing the escape dynamics in tidally limited star cluster models. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 452, 193-209	4.3	3
37	Orbital dynamics in the planar Saturn-Titan system. <i>Astrophysics and Space Science</i> , 2015 , 358, 1	1.6	14
36	Escape dynamics and fractal basin boundaries in Seyfert galaxies. <i>Nonlinear Dynamics</i> , 2015 , 80, 1109-1131	3	3

35	Crash test for the Copenhagen problem with oblateness. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2015 , 122, 75-99	1.4	36
34	Orbit classification in the planar circular Pluto-Charon system. <i>Astrophysics and Space Science</i> , 2015 , 360, 1	1.6	14
33	Unveiling the influence of the radiation pressure in nature of orbits in the photogravitational restricted three-body problem. <i>Astrophysics and Space Science</i> , 2015 , 360, 1	1.6	17
32	Revealing the escape mechanism of three-dimensional orbits in a tidally limited star cluster. <i>Monthly Notices of the Royal Astronomical Society</i> , 2015 , 446, 770-792	4.3	23
31	Introducing a New 3D Dynamical Model for Barred Galaxies. <i>Publications of the Astronomical Society of Australia</i> , 2015 , 32,	5.5	14
30	Classifying orbits in the restricted three-body problem. <i>Nonlinear Dynamics</i> , 2015 , 82, 1233-1250	5	13
29	Escapes in Hamiltonian systems with multiple exit channels: part II. <i>Nonlinear Dynamics</i> , 2015 , 82, 357-398		12
28	Order and chaos in a three dimensional galaxy model. <i>Mechanics Research Communications</i> , 2015 , 69, 45-53	2.2	4
27	Classifying orbits in the classical Hénon-Heiles Hamiltonian system. <i>Nonlinear Dynamics</i> , 2015 , 79, 1665-1677		13
26	Orbit classification of low and high angular momentum stars. <i>Mechanics Research Communications</i> , 2014 , 62, 102-110	2.2	1
25	Interplay between Dark Matter and Galactic Structure in Disk and Oblate Elliptical Galaxies. <i>Journal of Astrophysics and Astronomy</i> , 2014 , 35, 649-673	1.4	
24	Escapes in Hamiltonian systems with multiple exit channels: part I. <i>Nonlinear Dynamics</i> , 2014 , 78, 1389-1420		22
23	A Hamiltonian system of three degrees of freedom with eight channels of escape: The Great Escape. <i>Nonlinear Dynamics</i> , 2014 , 76, 1301-1326	5	24
22	Determining the nature of orbits in disk galaxies with non-spherical nuclei. <i>Nonlinear Dynamics</i> , 2014 , 76, 323-344	5	8
21	Classifying orbits in galaxy models with a prolate or an oblate dark matter halo component. <i>Astronomy and Astrophysics</i> , 2014 , 563, A19	5.1	14
20	Revealing the evolution, the stability, and the escapes of families of resonant periodic orbits in Hamiltonian systems. <i>Nonlinear Dynamics</i> , 2013 , 73, 931-962	5	15
19	Orbit classification in the meridional plane of a disk galaxy model with a spherical nucleus. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2013 , 116, 417-438	1.4	28
18	Exploring the origin, the nature, and the dynamical behavior of distant stars in galaxy models. <i>Nonlinear Dynamics</i> , 2013 , 74, 831-847	5	1

17	Order and chaos in a new 3D dynamical model describing motion in non-axially symmetric galaxies. <i>Nonlinear Dynamics</i> , 2013 , 74, 1203-1221	5	15
16	Revealing the Character of Orbits in a Binary System Consisting of a Primary Galaxy and a Satellite Companion. <i>Publications of the Astronomical Society of Australia</i> , 2013 , 30,	5.5	8
15	Unveiling the Influence of Dark Matter in Axially Symmetric Galaxies. <i>Publications of the Astronomical Society of Australia</i> , 2013 , 30,	5.5	8
14	Revealing the influence of dark matter on the nature of motion and the families of orbits in axisymmetric galaxy models. <i>Astronomy and Astrophysics</i> , 2013 , 560, A110	5.1	10
13	Exploring the nature of orbits in a galactic model with a massive nucleus. <i>New Astronomy</i> , 2012 , 17, 576-588	5.8	21
12	Are semi-numerical methods an effective tool for locating periodic orbits in 3D potentials?. <i>Nonlinear Dynamics</i> , 2012 , 70, 279-287	5	8
11	The Fast Norm Vector Indicator (FNVI) method: a new dynamical parameter for detecting order and chaos in Hamiltonian systems. <i>Nonlinear Dynamics</i> , 2012 , 70, 951-978	5	11
10	ORDER AND CHAOS IN A THREE-DIMENSIONAL BINARY SYSTEM OF INTERACTING GALAXIES. <i>Astrophysical Journal</i> , 2012 , 750, 56	4.7	10
9	Investigating the nature of motion in 3D perturbed elliptic oscillators displaying exact periodic orbits. <i>Nonlinear Dynamics</i> , 2012 , 69, 1795-1805	5	12
8	Application of new dynamical spectra of orbits in Hamiltonian systems. <i>Nonlinear Dynamics</i> , 2012 , 69, 2041-2063	5	12
7	Order and chaos in a galactic model with a strong nuclear bar. <i>Research in Astronomy and Astrophysics</i> , 2012 , 12, 500-512	1.5	6
6	Trapped and Escaping Orbits in an Axially Symmetric Galactic-Type Potential. <i>Publications of the Astronomical Society of Australia</i> , 2012 , 29, 161-173	5.5	24
5	Are external perturbations responsible for chaotic motion in galaxies?. <i>Chaos, Solitons and Fractals</i> , 2011 , 44, 501-509	9.3	2
4	A new dynamical model for the study of galactic structure. <i>New Astronomy</i> , 2011 , 16, 391-401	1.8	24
3	Dark halos acting as chaos controllers in asymmetric triaxial galaxy models. <i>Research in Astronomy and Astrophysics</i> , 2011 , 11, 811-823	1.5	6
2	Equilibrium dynamics of a circular restricted three-body problem with Kerr-like primaries. <i>Nonlinear Dynamics</i> , 1	5	1
1	The intersection surfaces in a 4-dimensional homoclinic/heteroclinic tangle. <i>Nonlinear Dynamics</i> , 1	5	1