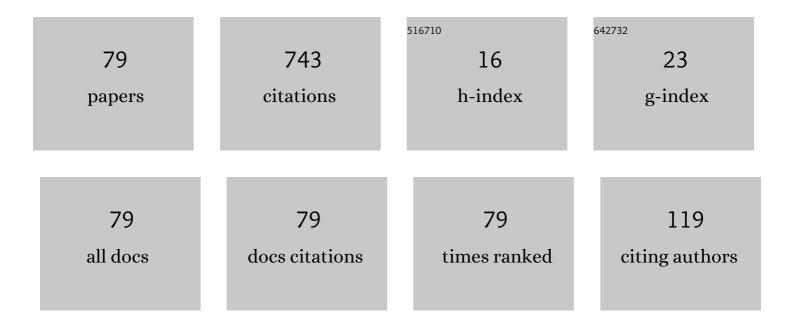
Rajiv Aggarwal

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	On the axisymmetric restricted five-body problem within the frame of variable mass: The convex case. New Astronomy, 2022, 92, 101697.	1.8	2
2	The study of Newton–Raphson basins of convergence in the three-dipole problem. Nonlinear Dynamics, 2022, 107, 829-854.	5.2	1
3	Modified Robe's Problem with Perturbations in the Coriolis and Centrifugal Forces. Few-Body Systems, 2022, 63, 1.	1.5	3
4	On the topology of basins of convergence linked to libration points in the modified R3BP with oblateness. New Astronomy, 2022, 94, 101776.	1.8	5
5	The influence of third order terms on basins of convergence in the Hénon–Heiles type system. New Astronomy, 2022, 94, 101761.	1.8	0
6	Effect of Earth's Equatorial Ellipticity on the Resonant Curve and Phase Portrait of Geo-centric Satellite Under the Gravitational Effect of the Earth–Moon–Sun System by Using Unperturbed Solution. Few-Body Systems, 2022, 63, 1.	1.5	0
7	Fractal basins of convergence in the restricted rhomboidal six-body problem. New Astronomy, 2022, 94, 101798.	1.8	2
8	On the beyond-Newtonian collinear circular restricted \$(3 + 1)\$-body problem with spinning primaries. Astrophysics and Space Science, 2022, 367, .	1.4	3
9	Restricted \$\$2 + 2\$\$ body problem with oblateness and straight segment. Journal of Astrophysics and Astronomy, 2022, 43, .	1.0	2
10	On the rhomboidal restricted five-body problem: Analysis of the basins of convergence. New Astronomy, 2022, , 101893.	1.8	0
11	Assessing the Effects of Holling Type-II Treatment Rate on HIV-TB Co-infection. Acta Biotheoretica, 2021, 69, 1-35.	1.5	7
12	Estimating the impact of antiretroviral therapy on HIV-TB co-infection: Optimal strategy prediction. International Journal of Biomathematics, 2021, 14, 2150004.	2.9	4
13	On the modified circular restricted three-body problem with variable mass. New Astronomy, 2021, 84, 101510.	1.8	14
14	The analysis of basins of convergence in the regular polygon problem of (N+1) bodies system with spheroidal primaries. New Astronomy, 2021, 85, 101530.	1.8	1
15	Assessing the impact of transmissibility on a cluster-based COVID-19 model in India. International Journal of Modeling, Simulation, and Scientific Computing, 2021, 12, 2141002.	1.4	5
16	Fractal basins of attraction in a binary quasar model. New Astronomy, 2021, 84, 101543.	1.8	1
17	Emerging therapeutic approaches to COVID-19. Current Pharmaceutical Design, 2021, 27, 3370-3388.	1.9	2
18	On the basins of convergence in the magneticâ€binary problem with angular velocity. Computational and Mathematical Methods, 2021, 3, e1161.	0.8	4

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19	A fractional order HIV-TB co-infection model in the presence of exogenous reinfection and recurrent TB. Nonlinear Dynamics, 2021, 104, 4701-4725.	5.2	15
20	On the Sitnikovâ€like <i>N</i> â€body problem with quasiâ€homogeneous potential. Computational and Mathematical Methods, 2021, 3, e1180.	0.8	1
21	On the Perturbed Restricted 2+2 Body Problem when the Primaries are Non-spherical. Few-Body Systems, 2021, 62, .	1.5	5
22	Effect of three-body interaction on the topology of basins of convergence linked to the libration points in the R3BP. Planetary and Space Science, 2021, 205, 105281.	1.7	4
23	Combined effect of small perturbations in the Coriolis and centrifugal forces and three-body interaction on the existence of stationary points in the R3BP. New Astronomy, 2021, 89, 101630.	1.8	8
24	Optimal control strategies on COVID-19 infection to bolster the efficacy of vaccination in India. Scientific Reports, 2021, 11, 20124.	3.3	16
25	Analyzing the Effect of Vaccination Over COVID Cases and Deaths in Asian Countries Using Machine Learning Models. Frontiers in Cellular and Infection Microbiology, 2021, 11, 806265.	3.9	7
26	The analysis of periodic orbits generated by Lagrangian solutions of the restricted three-body problem with non-spherical primaries. New Astronomy, 2020, 74, 101287.	1.8	14
27	Dynamics of HIV-TB co-infection with detection as optimal intervention strategy. International Journal of Non-Linear Mechanics, 2020, 120, 103388.	2.6	16
28	The effect of radiation pressure on the basins of convergence in the restricted four-body problem. Chaos, Solitons and Fractals, 2020, 141, 110347.	5.1	8
29	Stability analysis of a delayed HIV-TB co-infection model in resource limitation settings. Chaos, Solitons and Fractals, 2020, 140, 110138.	5.1	15
30	The study of the fractal basins of convergence linked with equilibrium points in the perturbed (<i>N</i> + 1)â€body ring problem. Astronomische Nachrichten, 2020, 341, 741-761.	1.2	2
31	An insight on the restricted problem of 2 + 2 bodies with straight segment. Astronomische Nachrichten, 2020, 341, 669-683.	1.2	8
32	The unpredictability of the basins of attraction in photogravitational Chermnykh's problem. Astrophysics and Space Science, 2020, 365, 1.	1.4	8
33	Determining the Properties of the Basins of Convergence in the Generalized Hénon–Heiles System. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2020, 30, 2050007.	1.7	3
34	On the spatial collinear restricted four-body problem with non-spherical primaries. Chaos, Solitons and Fractals, 2020, 133, 109609.	5.1	17
35	Analysis of Copenhagen problem with a repulsive quasiâ€homogeneous Manevâ€ŧype potential within the frame of variable mass. Astronomische Nachrichten, 2020, 341, 410-423.	1.2	0
36	The perturbed restricted three-body problem with angular velocity: Analysis of basins of convergence linked to the libration points. International Journal of Non-Linear Mechanics, 2020, 123, 103494.	2.6	3

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37	Unveiling the basins of convergence in the pseudo-Newtonian planar circular restricted four-body problem. New Astronomy, 2019, 66, 52-67.	1.8	8
38	Orbit classification in the Copenhagen problem with oblate primaries. Astronomische Nachrichten, 2019, 340, 760-770.	1.2	3
39	The analysis of restricted five–body problem within frame of variable mass. New Astronomy, 2019, 70, 12-21.	1.8	39
40	Divulging the effect of small perturbations in the Coriolis and centrifugal forces in the photogravitational version of autonomous restricted fourâ€body problem with oblate primary. Astronomische Nachrichten, 2019, 340, 413-429.	1.2	1
41	On the perturbed photogravitational restricted five-body problem: the analysis of fractal basins of convergence. Astrophysics and Space Science, 2019, 364, 1.	1.4	8
42	On the Convergence Dynamics of the Sitnikov Problem with Non-spherical Primaries. International Journal of Applied and Computational Mathematics, 2019, 5, 1.	1.6	3
43	The effect of small perturbations in the Coriolis and centrifugal forces in the axisymmetric restricted five-body problem. Astrophysics and Space Science, 2019, 364, 1.	1.4	17
44	On the Newton–Raphson basins of convergence associated with the libration points in the axisymmetric restricted five-body problem: The concave configuration. International Journal of Non-Linear Mechanics, 2019, 112, 25-47.	2.6	21
45	Networks of periodic orbits in the circular restricted three-body problem with first order post-Newtonian terms. Meccanica, 2019, 54, 2339-2365.	2.0	9
46	On the fractal basins of convergence of the libration points in the axisymmetric five-body problem: The convex configuration. International Journal of Non-Linear Mechanics, 2019, 109, 80-106.	2.6	22
47	Revealing the existence and stability of equilibrium points in the circular autonomous restricted four-body problem with variable mass. New Astronomy, 2019, 68, 1-9.	1.8	5
48	Out-of-plane equilibrium points and regions of motion in the photogravitational R3BP when the primaries are heterogeneous spheroid with three layers. New Astronomy, 2018, 63, 15-26.	1.8	19
49	Robe's Restricted Problem of 2 + 2 Bodies with a Roche Ellipsoid - Triaxial System. Journal of the Astronautical Sciences, 2018, 65, 63-81.	1.5	7
50	Exploring the fractal basins of convergence in the restricted four-body problem with oblateness. International Journal of Non-Linear Mechanics, 2018, 102, 62-71.	2.6	25
51	On the existence of libration points in the spatial collinear restricted four-body problem within frame of repulsive Manev potential and variable mass. Chaos, Solitons and Fractals, 2018, 117, 94-104.	5.1	10
52	Basins of Convergence in the Circular Sitnikov Four-Body Problem with Nonspherical Primaries. International Journal of Bifurcation and Chaos in Applied Sciences and Engineering, 2018, 28, 1830016.	1.7	14
53	The effect of small perturbations in the Coriolis and centrifugal forces on the existence of libration points in the restricted fourâ€body problem with variable mass. Astronomische Nachrichten, 2018, 339, 492-512.	1.2	15
54	Comparing the Geometry of the Basins of Attraction, the Speed and the Efficiency of Several Numerical Methods. International Journal of Applied and Computational Mathematics, 2018, 4, 1.	1.6	4

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55	Revealing the Newton–Raphson basins of convergence in the circular pseudo-Newtonian Sitnikov problem. International Journal of Non-Linear Mechanics, 2018, 105, 43-54.	2.6	8
56	Fractal basins of convergence of libration points in the planar Copenhagen problem with a repulsive quasi-homogeneous Manev-type potential. International Journal of Non-Linear Mechanics, 2018, 103, 113-127.	2.6	24
57	On the photo-gravitational restricted four-body problem with variable mass. Astrophysics and Space Science, 2018, 363, 1.	1.4	20
58	Investigating the Basins of Convergence in the Circular Sitnikov Three-Body Problem with Non-spherical Primaries. Few-Body Systems, 2018, 59, 1.	1.5	15
59	On the restricted four-body problem with the effect of small perturbations in the Coriolis and centrifugal forces. Astrophysics and Space Science, 2017, 362, 1.	1.4	38
60	The Nonlinear Stability of L 4 in the R3BP when the Smaller Primary is a Heterogeneous Spheroid. Journal of the Astronautical Sciences, 2017, 64, 18-49.	1.5	15
61	Effect of oblateness on the existence and location of libration points in R4BP. , 2017, , .		0
62	Resonance in the perturbations of a synchronous satellite due to angular rate of the earth-moon system around the sun and the earthA¢â,¬â"¢s rotation rate. International Journal of Advanced Astronomy, 2016, 4, 68-75.	0.1	3
63	Perturbed Robe's restricted problem of 2+2 bodies when the primaries form a Roche ellipsoid-triaxial system. Journal of Dynamical Systems and Geometric Theories, 2016, 14, 99-117.	0.2	5
64	Stability of libration points in the restricted four-body problem with variable mass. Astrophysics and Space Science, 2016, 361, 1.	1.4	33
65	Periodic Orbits in the Photogravitational Restricted Problem When the Primaries Are Triaxial Rigid Bodies. International Journal of Astronomy and Astrophysics, 2016, 06, 111-121.	0.5	3
66	Combined effects of Finite Straight Segment and Oblateness on the Libration Points in the Restricted-Three Body Problem. International Journal of Technology, 2016, 6, 185.	0.5	0
67	Perturbed Robe's Restricted Problem of 2+2 Bodies when the primaries form a Roche Ellipsoid-Triaxial System. International Journal of Technology, 2016, 6, 150.	0.5	0
68	A study of non-collinear libration points in restricted three body problem with stokes drag effect when smaller primary is an oblate spheroid. Astrophysics and Space Science, 2015, 358, 1.	1.4	28
69	Restricted Three Body Problem with Stokes Drag Effect. International Journal of Astronomy and Astrophysics, 2015, 05, 95-105.	0.5	7
70	Effect of Perturbations in Coriolis and Centrifugal Forces on the Non-Linear Stability of <i>L</i> ₄ in the Photogravitational Restricted Three Body Problem. International Journal of Astronomy and Astrophysics, 2015, 05, 275-290.	0.5	0
71	Existence and Stability of Non-Collinear Librations Points in the Restricted Problem with Poynting Robertson Light Drag Effect. International Journal of Mathematics Trends and Technology, 2015, 19, 20-33.	0.1	5
72	Robe's restricted problem of 2+2 bodies when the bigger primary is a Roche ellipsoid and the smaller primary is an oblate body. Astrophysics and Space Science, 2014, 349, 57-69.	1.4	23

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73	Resonance in a geo-centric synchronous satellite under the gravitational forces of the Sun, the Moon and the Earth including it's equatorial ellipticity. Astrophysics and Space Science, 2014, 349, 727-743.	1.4	3
74	Robe's restricted problem of 2+2 bodies with one of the primaries an oblate body. Astrophysics and Space Science, 2014, 352, 467-479.	1.4	16
75	Perturbations of a geo-centric synchronous satellite with resonance. Astrophysics and Space Science, 2014, 353, 417-424.	1.4	2
76	Resonance in a geo-centric satellite due to earth's equatorial ellipticity. Astrophysics and Space Science, 2013, 347, 249-259.	1.4	8
77	Resonance in the earth-moon system around the sun including earth's equatorial ellipticity. Astrophysics and Space Science, 2013, 348, 367-375.	1.4	3
78	Robe's restricted problem of 2+2 bodies when the bigger primary is a Roche ellipsoid. Acta Astronautica, 2013, 89, 31-37.	3.2	21
79	Robe's problem: its extension to 2+2 bodies. Astrophysics and Space Science, 2012, 339, 283-294.	1.4	27