Anna D Guerman

List of Publications by Year
in descending order

44 papers	248 citations	1162889 8 h-index	1125617 13 g-index
47 all docs	47 docs citations	47 times ranked	115 citing authors

#	Article	IF	Citations
1	Electromagnetic uncoordinated control of a ChipSats swarm using magnetorquers. Acta Astronautica, 2022, 192, 15-29.	1.7	1
2	Decentralized differential drag based control of nanosatellites swarm spatial distribution using magnetorquers. Advances in Space Research, 2021, 67, 3489-3503.	1.2	6
3	Decentralized Control of Nanosatellite Tetrahedral Formation Flying Using Aerodynamic Forces. Aerospace, 2021, 8, 199.	1.1	3
4	Force field properties and regions of particle accumulation on asteroid surface. Acta Astronautica, 2020, 174, 236-240.	1.7	3
5	Asymptotic Invariant Surfaces for Non-Autonomous Pendulum-Type Systems. Regular and Chaotic Dynamics, 2020, 25, 121-130.	0.3	1
6	Using the Đš-Means Method for Aggregating the Masses of Elongated Celestial Bodies. Cosmic Research, 2019, 57, 266-271.	0.2	7
7	Stationary configurations of space tether anchored on smaller primary in three-body problem. Acta Astronautica, 2019, 160, 572-582.	1.7	3
8	Approximation for attraction field of irregular celestial bodies using four massive points. Acta Astronautica, 2019, 157, 225-232.	1.7	8
9	Satellite with periodical mass redistribution: relative equilibria and their stability. Celestial Mechanics and Dynamical Astronomy, 2019, 131, 1.	0.5	3
10	Collocation of equilibria in gravitational field of triangular body via mass redistribution. Acta Astronautica, 2018, 146, 181-184.	1.7	1
11	Tethered spacecraft in asteroid gravitational environment. Acta Astronautica, 2018, 143, 126-132.	1.7	5
12	Dynamics of a Pendulum Anchored to a Rotating Asteroid. IFAC-PapersOnLine, 2018, 51, 867-872.	0.5	1
13	Equilibria in the gravitational field of a triangular body. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1.	0.5	0
14	Satellite dynamics due to gravity and constant torques. Journal of Computer and Systems Sciences International, 2017, 56, 125-136.	0.2	3
15	Numerical Modal Analysis of Vibrations in a Three-Phase Linear Switched Reluctance Actuator. Modelling and Simulation in Engineering, 2017, 2017, 1-18.	0.4	5
16	On the gravity of dumbbell-like bodies represented by a pair of intersecting balls. Nelineinaya Dinamika, 2017, 13, 243-256.	0.3	3
17	Stability solutions of a dumbbell-like system in an elliptical orbit. Journal of Physics: Conference Series, 2015, 641, 012004.	0.3	0
18	Uniform rotations of tethered system connected to a moon surface. Acta Astronautica, 2015, 116, 349-354.	1.7	5

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19	High-precision single-input control of relative motion in spacecraft formation. Acta Astronautica, 2014, 94, 375-382.	1.7	5
20	On plane oscillations of a pendulum with variable length suspended on the surface of a planetâ€™s satellite. Cosmic Research, 2014, 52, 289-294.	0.2	7
21	Tether orientation control for lunar elevator. Celestial Mechanics and Dynamical Astronomy, 2014, 120, 337-347.	0.5	10
22	Dynamics of Space Elevator After Tether Rupture. Journal of Guidance, Control, and Dynamics, 2013, 36, 986-992.	1.6	25
23	Membrane-based space energy collector: A conceptual study. Acta Astronautica, 2013, 87, 8-13.	1.7	1
24	Configuration of a Thin Circular Membrane Subject to Solar Pressure. Applied Mechanics and Materials, 2013, 290, 47-52.	0.2	3
25	Attitude Dynamics and Stability of a Simple Solar Photon Thruster. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	1
26	Averaging Methods for Design of Spacecraft Hysteresis Damper. Mathematical Problems in Engineering, 2013, 2013, 1-7.	0.6	5
27	Closed Relative Trajectories for Formation Flying with Single-Input Control. Mathematical Problems in Engineering, 2012, 2012, 1-20.	0.6	9
28	The steady motions of gyrostats with equal moments of inertia in a central force field. Prikladnaya Matematika I Mekhanika, 2011, 75, 517-521.	0.4	6
29	On the asymptotic stability of discontinuous systems analysed via the averaging method. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1513-1522.	0.6	6
30	Optimization of Parameters of Asymptotically Stable Systems. Mathematical Problems in Engineering, 2011, 2011, 1-19.	0.6	2
31	The orbital motion of a tetrahedral gyrostat. Prikladnaya Matematika I Mekhanika, 2010, 74, 425-435.	0.4	4
32	Dynamics of a Tetrahedral Satellite-Gyrostat. , 2010, , .		5
33	Comparison of Two Compound Solar Sail Schemes. , 2010, , .		1
34	Orbital Dynamics of a Simple Solar Photon Thruster. Mathematical Problems in Engineering, 2009, 2009, 1-11.	0.6	6
35	Stationary Configurations of a Tetrahedral Tethered Satellite Formation. Journal of Guidance, Control, and Dynamics, 2008, 31, 424-428.	1.6	23
36	Stability of Equilibria for a Satellite Subject to Gravitational and Constant Torques. Journal of Guidance, Control, and Dynamics, 2008, 31, 386-394.	1.6	2

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37	Comment on "Compound Solar Sail with Optical Properties: Models and Performance". Journal of Spacecraft and Rockets, 2007, 44, 732-734.	1.3	8
38	Use of solar radiation pressure to maintain a spatial satellite formation. Acta Astronautica, 2007, 61, 724-728.	1.7	12
39	Nanosatellite REFLECTOR: Choice of parameters of the attitude control system. Cosmic Research, 2007, 45, 60-77.	0.2	8
40	Spatial equilibria of multibody chain in a circular orbit. Acta Astronautica, 2006, 58, 1-14.	1.7	15
41	Influence of Constant Torque on Equilibria of Satellite in Circular Orbit. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 219-239.	0.5	6
42	Equilibria of Multibody Chain in Orbit Plane. Journal of Guidance, Control, and Dynamics, 2003, 26, 942-948.	1.6	16
43	Stationary Rotations of Two Connected Axisymmetric Rigid Bodies. , 2003, , .		0
44	Spatial Equilibria of an n-Link Chain in a Circular Orbit. , 2002, , .		0