

Anna D Guerman

List of Publications by Year in descending order

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44
papers

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47
all docs

47
docs citations

47
times ranked

115
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Dynamics of Space Elevator After Tether Rupture. Journal of Guidance, Control, and Dynamics, 2013, 36, 986-992. | 2.8 | 25 |
| 2 | Stationary Configurations of a Tetrahedral Tethered Satellite Formation. Journal of Guidance, Control, and Dynamics, 2008, 31, 424-428. | 2.8 | 23 |
| 3 | Equilibria of Multibody Chain in Orbit Plane. Journal of Guidance, Control, and Dynamics, 2003, 26, 942-948. | 2.8 | 16 |
| 4 | Spatial equilibria of multibody chain in a circular orbit. Acta Astronautica, 2006, 58, 1-14. | 3.2 | 15 |
| 5 | Use of solar radiation pressure to maintain a spatial satellite formation. Acta Astronautica, 2007, 61, 724-728. | 3.2 | 12 |
| 6 | Tether orientation control for lunar elevator. Celestial Mechanics and Dynamical Astronomy, 2014, 120, 337-347. | 1.4 | 10 |
| 7 | Closed Relative Trajectories for Formation Flying with Single-Input Control. Mathematical Problems in Engineering, 2012, 2012, 1-20. | 1.1 | 9 |
| 8 | Comment on "Compound Solar Sail with Optical Properties: Models and Performance". Journal of Spacecraft and Rockets, 2007, 44, 732-734. | 1.9 | 8 |
| 9 | Nanosatellite REFLECTOR: Choice of parameters of the attitude control system. Cosmic Research, 2007, 45, 60-77. | 0.6 | 8 |
| 10 | Approximation for attraction field of irregular celestial bodies using four massive points. Acta Astronautica, 2019, 157, 225-232. | 3.2 | 8 |
| 11 | On plane oscillations of a pendulum with variable length suspended on the surface of a planet's satellite. Cosmic Research, 2014, 52, 289-294. | 0.6 | 7 |
| 12 | Using the \mathcal{E} -Means Method for Aggregating the Masses of Elongated Celestial Bodies. Cosmic Research, 2019, 57, 266-271. | 0.6 | 7 |
| 13 | Influence of Constant Torque on Equilibria of Satellite in Circular Orbit. Celestial Mechanics and Dynamical Astronomy, 2003, 87, 219-239. | 1.4 | 6 |
| 14 | Orbital Dynamics of a Simple Solar Photon Thruster. Mathematical Problems in Engineering, 2009, 2009, 1-11. | 1.1 | 6 |
| 15 | 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 |
| 16 | On the asymptotic stability of discontinuous systems analysed via the averaging method. Nonlinear Analysis: Theory, Methods & Applications, 2011, 74, 1513-1522. | 1.1 | 6 |
| 17 | Decentralized differential drag based control of nanosatellites swarm spatial distribution using magnetorquers. Advances in Space Research, 2021, 67, 3489-3503. | 2.6 | 6 |
| 18 | Dynamics of a Tetrahedral Satellite-Gyrost. , 2010, , . | | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Averaging Methods for Design of Spacecraft Hysteresis Damper. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7. | 1.1 | 5 |
| 20 | High-precision single-input control of relative motion in spacecraft formation. <i>Acta Astronautica</i> , 2014, 94, 375-382. | 3.2 | 5 |
| 21 | Uniform rotations of tethered system connected to a moon surface. <i>Acta Astronautica</i> , 2015, 116, 349-354. | 3.2 | 5 |
| 22 | Numerical Modal Analysis of Vibrations in a Three-Phase Linear Switched Reluctance Actuator. <i>Modelling and Simulation in Engineering</i> , 2017, 2017, 1-18. | 0.7 | 5 |
| 23 | Tethered spacecraft in asteroid gravitational environment. <i>Acta Astronautica</i> , 2018, 143, 126-132. | 3.2 | 5 |
| 24 | The orbital motion of a tetrahedral gyrostat. <i>Prikladnaya Matematika I Mekhanika</i> , 2010, 74, 425-435. | 0.4 | 4 |
| 25 | Configuration of a Thin Circular Membrane Subject to Solar Pressure. <i>Applied Mechanics and Materials</i> , 2013, 290, 47-52. | 0.2 | 3 |
| 26 | Satellite dynamics due to gravity and constant torques. <i>Journal of Computer and Systems Sciences International</i> , 2017, 56, 125-136. | 0.6 | 3 |
| 27 | Stationary configurations of space tether anchored on smaller primary in three-body problem. <i>Acta Astronautica</i> , 2019, 160, 572-582. | 3.2 | 3 |
| 28 | Satellite with periodical mass redistribution: relative equilibria and their stability. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2019, 131, 1. | 1.4 | 3 |
| 29 | Force field properties and regions of particle accumulation on asteroid surface. <i>Acta Astronautica</i> , 2020, 174, 236-240. | 3.2 | 3 |
| 30 | Decentralized Control of Nanosatellite Tetrahedral Formation Flying Using Aerodynamic Forces. <i>Aerospace</i> , 2021, 8, 199. | 2.2 | 3 |
| 31 | On the gravity of dumbbell-like bodies represented by a pair of intersecting balls. <i>Nelineinaya Dinamika</i> , 2017, 13, 243-256. | 0.3 | 3 |
| 32 | Stability of Equilibria for a Satellite Subject to Gravitational and Constant Torques. <i>Journal of Guidance, Control, and Dynamics</i> , 2008, 31, 386-394. | 2.8 | 2 |
| 33 | Optimization of Parameters of Asymptotically Stable Systems. <i>Mathematical Problems in Engineering</i> , 2011, 2011, 1-19. | 1.1 | 2 |
| 34 | Comparison of Two Compound Solar Sail Schemes. , 2010, , . | | 1 |
| 35 | Membrane-based space energy collector: A conceptual study. <i>Acta Astronautica</i> , 2013, 87, 8-13. | 3.2 | 1 |
| 36 | Attitude Dynamics and Stability of a Simple Solar Photon Thruster. <i>Mathematical Problems in Engineering</i> , 2013, 2013, 1-7. | 1.1 | 1 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Collocation of equilibria in gravitational field of triangular body via mass redistribution. Acta Astronautica, 2018, 146, 181-184. | 3.2 | 1 |
| 38 | Dynamics of a Pendulum Anchored to a Rotating Asteroid. IFAC-PapersOnLine, 2018, 51, 867-872. | 0.9 | 1 |
| 39 | Asymptotic Invariant Surfaces for Non-Autonomous Pendulum-Type Systems. Regular and Chaotic Dynamics, 2020, 25, 121-130. | 0.8 | 1 |
| 40 | Electromagnetic uncoordinated control of a ChipSats swarm using magnetorquers. Acta Astronautica, 2022, 192, 15-29. | 3.2 | 1 |
| 41 | Spatial Equilibria of an n-Link Chain in a Circular Orbit. , 2002, , . | | 0 |
| 42 | Stability solutions of a dumbbell-like system in an elliptical orbit. Journal of Physics: Conference Series, 2015, 641, 012004. | 0.4 | 0 |
| 43 | Equilibria in the gravitational field of a triangular body. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1. | 1.4 | 0 |
| 44 | Stationary Rotations of Two Connected Axisymmetric Rigid Bodies. , 2003, , . | | 0 |