

# Yuriy Chelnokov

## List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Quaternion Models and Algorithms for Solving the General Problem of Optimal Reorientation of Spacecraft Orbit and its Plane. , 2022, , .		0
2	Quaternion Algorithm for Initial Alignment of Strapdown INS Using the A. N. Tikhonov Regularization Method. Mekhatronika, Avtomatizatsiya, Upravlenie, 2021, 22, 217-224.	0.4	1
3	Solution of the Problem of Optimal Spacecraft Launching into Orbit Using Reactive Acceleration and Solar Sail in Kustaanheimoâ€”Stiefel Variables. Cosmic Research, 2021, 59, 280-290.	0.6	2
4	Controlling the Spatial Motion of a Rigid Body Using Biquaternions and Dual Matrices. Mechanics of Solids, 2021, 56, 13-33.	0.7	5
5	Regular Quaternion Models of Perturbed Orbital Motion of a Rigid Body in the Earthâ€™s Gravitational Field. Mechanics of Solids, 2020, 55, 958-976.	0.7	2
6	Synthesis of Control of Spatial Motion of a Rigid Body Using Dual Quaternions. Mechanics of Solids, 2020, 55, 977-998.	0.7	3
7	Optimal Rotation of the Orbit Plane of a Variable Mass Spacecraft in the Central Gravitational Field by Means of Orthogonal Thrust. Automation and Remote Control, 2019, 80, 1437-1454.	0.8	2
8	Quaternion Equations of Disturbed Motion of an Artificial Earth Satellite. Cosmic Research, 2019, 57, 101-114.	0.6	5
9	Inertial Navigation in Space Using the Regular Quaternion Equations of Astrodynamics. Mechanics of Solids, 2019, 54, 157-168.	0.7	6
10	Perturbed Spatial Two-Body Problem: Regular Quaternion Equations of Relative Motion. Mechanics of Solids, 2019, 54, 169-178.	0.7	5
11	Pulsed Optimal Spacecraft Orbit Reorientation by Means of Reactive Thrust Orthogonal to the Osculating Orbit. II. Mechanics of Solids, 2019, 54, 1-18.	0.7	2
12	Quaternion Solution of the Problem of Optimal Rotation of the Orbit Plane of a Variable-Mass Spacecraft Using Thrust Orthogonal to the Orbit Plane. Mechanics of Solids, 2019, 54, 941-957.	0.7	3
13	Quaternion Models and Algorithms of Solving the General Problem of Energetically Optimal Spacecraft Orbit Reorientation. Mekhatronika, Avtomatizatsiya, Upravlenie, 2019, 20, 498-503.	0.4	0
14	Generalization of Hamiltonâ€™s Ishlinskii Solid Angle Theorem for Spatial Motion of a Solid Body and its Applications. Mechanics of Solids, 2019, 54, 1227-1239.	0.7	0
15	Pulsed Optimal Spacecraft Orbit Reorientation by Means of Reactive Thrust Orthogonal to the Osculating Orbit. I. Mechanics of Solids, 2018, 53, 535-551.	0.7	2
16	Quaternion Regularization of the Equations of the Perturbed Spatial Restricted Three-Body Problem: II. Mechanics of Solids, 2018, 53, 633-650.	0.7	5
17	Kinematic problem of optimal nonlinear stabilization of angular motion of a rigid body. Mechanics of Solids, 2017, 52, 119-127.	0.7	0
18	A new version of separating the process of integrating the equations of autonomous strapdown INS into rapid and slow loops. , 2017, , .		0

#	ARTICLE	IF	CITATIONS
19	Quaternion Regularization of the Equations of the Perturbed Spatial Restricted Three-Body Problem: I. Mechanics of Solids, 2017, 52, 613-639.	0.7	16
20	Theory of Kinematic Motion Control of a Rigid Body. Mekhatronika, Avtomatizatsiya, Upravlenie, 2017, 18, 435-446.	0.4	2
21	Application of the Theory of Kinematic Motion Control of a Rigid Body. Mekhatronika, Avtomatizatsiya, Upravlenie, 2017, 18, 532-542.	0.4	3
22	Equations and algorithms for determining the inertial attitude and apparent velocity of a moving object in quaternion and biquaternion 4D orthogonal operators. Mechanics of Solids, 2016, 51, 148-155.	0.7	7
23	Inertial navigation equations for the apparent and gravitational velocities and their analytic solutions for an immovable object. Mechanics of Solids, 2016, 51, 1-11.	0.7	10
24	Investigation of the Task of the Optimal Reorientation of a Spacecraft Orbit through a Limited or Impulse Jet Thrust, Orthogonal to the Plane of the Orbit. Part 1. Mekhatronika, Avtomatizatsiya, Upravlenie, 2016, 17, 567-575.	0.4	3
25	Investigation of the Task of the Optimal Reorientation of a Spacecraft Orbit through a Limited or Impulse Jet Thrust, Orthogonal to the Plane of the Orbit. Part 2. Mekhatronika, Avtomatizatsiya, Upravlenie, 2016, 17, 633-643.	0.4	1
26	Solving Kinematic Problem of Optimal Nonlinear Stabilization of Arbitrary Program Movement of Free Rigid Body. Izvestiya of Saratov University New Series Series: Mathematics Mechanics Informatics, 2016, 16, 198-207.	0.3	1
27	Quaternion regularization in celestial mechanics, astrodynamics, and trajectory motion control. III. Cosmic Research, 2015, 53, 394-409.	0.6	9
28	Construction of optimum controls and trajectories of motion of the center of masses of a spacecraft equipped with the solar sail and low-thrust engine, using quaternions and Kustaanheimo-Stiefel variables. Cosmic Research, 2014, 52, 450-460.	0.6	8
29	Construction of optimal laws of variation of the angular momentum vector of a rigid body. Mechanics of Solids, 2014, 49, 479-494.	0.7	5
30	Quaternion regularization and trajectory motion control in celestial mechanics and astrodynamics: II. Cosmic Research, 2014, 52, 304-317.	0.6	14
31	Biquaternion solution of the kinematic control problem for the motion of a rigid body and its application to the solution of inverse problems of robot-manipulator kinematics. Mechanics of Solids, 2013, 48, 31-46.	0.7	7
32	Quaternion regularization in celestial mechanics and astrodynamics and trajectory motion control. I. Cosmic Research, 2013, 51, 350-361.	0.6	14
33	Optimal reorientation of a spacecraft's orbit using a jet thrust orthogonal to the orbital plane. Prikladnaya Matematika I Mekhanika, 2012, 76, 646-657.	0.4	4
34	Construction of optimal laws of variation in the angular momentum vector of a dynamically symmetric rigid body. Mechanics of Solids, 2011, 46, 519-533.	0.7	4
35	The problem of optimal control of the orientation of an orbit of a spacecraft as a deformable figure. Journal of Computer and Systems Sciences International, 2008, 47, 621-634.	0.6	5
36	The problem of rendezvous of a controlled space vehicle with an uncontrolled space vehicle moving along an elliptical Keplerian orbit in the central Newtonian gravitational field. Journal of Computer and Systems Sciences International, 2007, 46, 468-483.	0.6	3

#	ARTICLE	IF	CITATIONS
37	Analysis of optimal motion control for a material point in a central field with application of quaternions. Journal of Computer and Systems Sciences International, 2007, 46, 688-713.	0.6	16
38	Title is missing!. Cosmic Research, 2003, 41, 460-477.	0.6	4
39	Title is missing!. Cosmic Research, 2003, 41, 85-99.	0.6	7
40	Title is missing!. Cosmic Research, 2001, 39, 470-484.	0.6	10
41	Theory of horizontal gyrocompass in Rodriguez-Hamilton parameters. Soviet Applied Mechanics, 1984, 20, 106-111.	0.0	0