

Elena Pivovarova

List of Publications by Year in descending order

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#	ARTICLE	IF	CITATIONS
1	Motion control of the spherical robot rolling on a vibrating plane. Applied Mathematical Modelling, 2022, 109, 492-508.	4.2	5
2	The influence of the first integrals and the rolling resistance model on tippe top inversion. Nonlinear Dynamics, 2021, 103, 419-428.	5.2	9
3	Conservation laws for a spherical top on a plane with friction. International Journal of Non-Linear Mechanics, 2021, 129, 103666.	2.6	5
4	Separatrix splitting in the problem of a spherical top rolling on a vertically vibrating plane. , 2021, , .		0
5	A Particular Integrable Case in the Nonautonomous Problem of a Chaplygin Sphere Rolling on a Vibrating Plane. Regular and Chaotic Dynamics, 2021, 26, 775-786.	0.8	3
6	Stability and Stabilization of Steady Rotations of a Spherical Robot on a Vibrating Base. Regular and Chaotic Dynamics, 2020, 25, 729-752.	0.8	8
7	Speedup of the Chaplygin Top by Means of Rotors. Doklady Physics, 2019, 64, 120-124.	0.7	4
8	Qualitative Analysis of the Nonholonomic Rolling of a Rubber Wheel with Sharp Edges. Regular and Chaotic Dynamics, 2019, 24, 212-233.	0.8	3
9	Controlled Motion of a Spherical Robot with Feedback. II. Journal of Dynamical and Control Systems, 2019, 25, 1-16.	0.8	8
10	Controlled Motion of a Spherical Robot with Feedback. I. Journal of Dynamical and Control Systems, 2018, 24, 497-510.	0.8	23
11	Integrable Nonsmooth Nonholonomic Dynamics of a Rubber Wheel with Sharp Edges. Regular and Chaotic Dynamics, 2018, 23, 887-907.	0.8	3
12	Control of the Rolling Motion of a Spherical Robot on an Inclined Plane. Doklady Physics, 2018, 63, 435-440.	0.7	1
13	Chaplygin Top with a Periodic Gyrostatic Moment. Russian Journal of Mathematical Physics, 2018, 25, 509-524.	1.5	13
14	Controlled Motion of a Spherical Robot of Pendulum Type on an Inclined Plane. Doklady Physics, 2018, 63, 302-306.	0.7	11
15	The rolling motion of a truncated ball without slipping and spinning on a plane. Regular and Chaotic Dynamics, 2017, 22, 298-317.	0.8	8
16	Regular and chaotic dynamics in the rubber model of a Chaplygin top. Regular and Chaotic Dynamics, 2016, 21, 885-901.	0.8	10
17	Spherical robot of combined type: Dynamics and control. Regular and Chaotic Dynamics, 2015, 20, 716-728.	0.8	42
18	Comments on the paper by A. V. Borisov, A. A. Kilin, I. S. Mamaev "How to control the Chaplygin ball using rotors." Regular and Chaotic Dynamics, 2014, 19, 140-143.	0.8	14