

# Artem A Burov

## List of Publications by Year in descending order

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135  
papers

841  
citations

687363

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642732

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docs citations

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times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	Nanodiamonds as Carriers for Address Delivery of Biologically Active Substances. <i>Nanoscale Research Letters</i> , 2010, 5, 631-636.	5.7	93
2	Experimental Demonstration of Relativistic Electron Cooling. <i>Physical Review Letters</i> , 2006, 96, 044801.	7.8	56
3	Head-tail modes for strong space charge. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2009, 12, .	1.8	42
4	Beam Instabilities in Hadron Synchrotrons. <i>IEEE Transactions on Nuclear Science</i> , 2016, 63, 1001-1050.	2.0	30
5	Modified Nanodiamonds as Antiwear Additives to Commercial Oils. <i>Tribology Transactions</i> , 2012, 55, 149-154.	2.0	29
6	Nested head-tail Vlasov solver. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2014, 17, .	1.8	26
7	Biodistribution of Different Sized Nanodiamonds in Mice. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 1070-1075.	0.9	26
8	Efficiency versus instability in plasma accelerators. <i>Physical Review Accelerators and Beams</i> , 2017, 20, .	1.6	25
9	Exhaled breath condensate analysis from intubated newborns by nano-HPLC coupled to high resolution MS. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1047, 97-105.	2.3	24
10	Landau Damping of Beam Instabilities by Electron Lenses. <i>Physical Review Letters</i> , 2017, 119, 134802.	7.8	20
11	On periodic motions of an orbital dumbbell-shaped body with a cabin-elevator. <i>Mechanics of Solids</i> , 2012, 47, 269-284.	0.7	17
12	Neutralization of aflatoxin B1 by ozone treatment and adsorption by nanodiamonds. <i>Nanotechnologies in Russia</i> , 2010, 5, 137-141.	0.7	14
13	Antiproton Cooling in the Fermilab Recycler Ring. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	13
14	On bifurcations of relative equilibria of a heavy bead sliding with dry friction on a rotating circle. <i>Acta Mechanica</i> , 2010, 212, 349-354.	2.1	13
15	Isolation of luminescence system from the luminescent fungus <i>Neonothopanus nambi</i> . <i>Doklady Biochemistry and Biophysics</i> , 2014, 455, 56-58.	0.9	13
16	Modification and Comparative Study of Commercial Nanodiamonds. <i>Fullerenes Nanotubes and Carbon Nanostructures</i> , 2015, 23, 93-97.	2.1	12
17	Simulation of transverse modes with their intrinsic Landau damping for bunched beams in the presence of space charge. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2015, 18, .	1.8	12
18	Electron Cooling of RHIC. , 0, , .		10

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19	Oscillations of a vibrating dumbbell on an elliptic orbit. Doklady Physics, 2011, 56, 182-185.	0.7	10
20	Tether orientation control for lunar elevator. Celestial Mechanics and Dynamical Astronomy, 2014, 120, 337-347.	1.4	10
21	Possibilities of the design estimates of the reliability of a high-pressure metal-composite tank. Journal of Machinery Manufacture and Reliability, 2015, 44, 344-349.	0.5	10
22	Commissioning of Fermilab's Electron Cooling System for 8-GeV Antiprotons. , 0, , .		9
23	Bifurcations of the relative equilibria of a heavy bead on a rotating hoop with dry friction. Prikladnaya Matematika I Mekhanika, 2014, 78, 460-467.	0.4	9
24	On the nonlinear Meissner equation. International Journal of Non-Linear Mechanics, 2019, 110, 26-32.	2.6	9
25	On planar oscillations of a body with a variable mass distribution in an elliptic orbit. Proceedings of the Institution of Mechanical Engineers, Part C: Journal of Mechanical Engineering Science, 2011, 225, 2288-2295.	2.1	8
26	Approximation for attraction field of irregular celestial bodies using four massive points. Acta Astronautica, 2019, 157, 225-232.	3.2	8
27	Study of the immunogenicity of the VP2 protein of canine parvovirus produced using an improved Baculovirus expression system. BMC Veterinary Research, 2020, 16, 202.	1.9	8
28	Computation of Attraction Potential of Asteroid (433) Eros with an Accuracy up to the Terms of the Fourth Order. Doklady Physics, 2020, 65, 164-168.	0.7	8
29	On relative equilibria of an orbital station in regions near the triangular libration points. Doklady Physics, 2007, 52, 507-509.	0.7	7
30	Dynamics of affinely deformable bodies from the standpoint of theoretical mechanics and differential geometry. Reports on Mathematical Physics, 2008, 62, 283-321.	0.8	7
31	Planar vibrations of a solid with variable mass distribution in an elliptic orbit. Doklady Physics, 2011, 56, 548-552.	0.7	7
32	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
33	Using the Ďš-Means Method for Aggregating the Masses of Elongated Celestial Bodies. Cosmic Research, 2019, 57, 266-271.	0.6	7
34	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
35	Stimulation of luminescence of mycelium of luminous fungus <i>Neonothopanus nambi</i> by ionizing radiation. Luminescence, 2014, 29, 703-710.	2.9	6
36	On the motion of a heavy material point on a rotating sphere (dry friction case). Regular and Chaotic Dynamics, 2015, 20, 225-233.	0.8	6

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37	Numerical Analysis of Stress-Strain State and Strength of Metal Lined Composite Overwrapped Pressure Vessel. <i>Strength of Materials</i> , 2017, 49, 666-675.	0.5	6
38	The Possibility of Postmortem Magnetic Resonance Imaging for the Diagnostics of Lung Hypoplasia. <i>Bulletin of Experimental Biology and Medicine</i> , 2018, 165, 288-291.	0.8	6
39	Burst pressure estimations of a composite pressure vessel accounting for the composite shell imperfections. <i>Journal of Physics: Conference Series</i> , 2019, 1260, 112007.	0.4	6
40	Transverse mode-coupling instability and space charge. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	6
41	Convective instabilities of bunched beams with space charge. <i>Physical Review Accelerators and Beams</i> , 2019, 22, .	1.6	6
42	Accelerated Growth, Differentiation, and Ploidy with Reduced Proliferation of Right Ventricular Cardiomyocytes in Children with Congenital Heart Defect Tetralogy of Fallot. <i>Cells</i> , 2022, 11, 175.	4.1	6
43	The motion of a body with a plane of symmetry over a three-dimensional sphere under the action of a spherical analogue of Newtonian gravitation. <i>Prikladnaya Matematika I Mekhanika</i> , 2008, 72, 15-21.	0.4	5
44	Dynamics of a Tetrahedral Satellite-Gyrost. , 2010, , .		5
45	Innovative Coiled Tubing Water Shutoff Techniques in Horizontal Wells. , 2012, , .		5
46	Uniform rotations of tethered system connected to a moon surface. <i>Acta Astronautica</i> , 2015, 116, 349-354.	3.2	5
47	Bifurcations of relative equilibria of a heavy bead on a rotating parabolic bowl with dry friction. <i>Mechanics of Solids</i> , 2016, 51, 395-405.	0.7	5
48	Relative equilibria of a massive point on a uniformly rotating asteroid. <i>Doklady Physics</i> , 2017, 62, 359-362.	0.7	5
49	Tethered spacecraft in asteroid gravitational environment. <i>Acta Astronautica</i> , 2018, 143, 126-132.	3.2	5
50	Microstructural and numerical analysis of fracture mechanisms in a thermal barrier coating system on Ni-based superalloys. <i>Procedia Structural Integrity</i> , 2018, 13, 741-745.	0.8	5
51	Efficiency of feedbacks for suppression of transverse instabilities of bunched beams. <i>Physical Review Accelerators and Beams</i> , 2016, 19, .	1.6	5
52	Stability and branching of stationary rotations in a planar problem of motion of mutually gravitating triangle and material point. <i>Nelineinaya Dinamika</i> , 2016, , 179-196.	0.3	5
53	Two-beam instability in electron cooling. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2006, 9, .	1.8	4
54	Poisson variations in the problem of the stability of equilibria in rigid body mechanics. <i>Prikladnaya Matematika I Mekhanika</i> , 2010, 74, 68-75.	0.4	4

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55	The orbital motion of a tetrahedral gyrostat. Prikladnaya Matematika I Mekhanika, 2010, 74, 425-435.	0.4	4
56	Phase modulation of the bucket stops bunch oscillations at the Fermilab Tevatron. Physical Review Special Topics: Accelerators and Beams, 2012, 15, .	1.8	4
57	Numerical simulation of carrying capacity of the high-pressure metal composite vessel. Journal of Machinery Manufacture and Reliability, 2016, 45, 443-450.	0.5	4
58	Fast instability caused by electron cloud in combined function magnets. Physical Review Accelerators and Beams, 2017, 20, .	1.6	4
59	CONTEMPORARY STRATEGY OF PULMONARY HYPERTENSION MANAGEMENT IN PEDIATRICS. Cardiovascular Therapy and Prevention (Russian Federation), 2018, 17, 101-124.	1.4	4
60	Electron Beam Size Measurements in A Cooling Solenoid. , 0, , .		3
61	Production Forecasting in a Limited-Data Environment: Evolving the Methodology in the Yamburgskoe Arctic Gas/Condensate Field, Russia. , 2006, , .		3
62	Optics of Electron Beam in the Recycler. AIP Conference Proceedings, 2006, , .	0.4	3
63	Status of the R&D towards electron cooling of RHIC. , 2007, , .		3
64	Coherent motion with linear coupling. Physical Review Special Topics: Accelerators and Beams, 2007, 10, .	1.8	3
65	Modified nanodiamonds obtained by detonation synthesis in constructing biochemical indication systems (As exemplified by the glucose determination system). Doklady Biochemistry and Biophysics, 2011, 439, 182-184.	0.9	3
66	Model drug delivery system based on nanodiamonds. Nanotechnologies in Russia, 2011, 6, 256-264.	0.7	3
67	Conservative methods of controlling the rotation of a gyrostat. Prikladnaya Matematika I Mekhanika, 2013, 77, 195-204.	0.4	3
68	Circular modes for flat beams in the LHC. Physical Review Special Topics: Accelerators and Beams, 2013, 16, .	1.8	3
69	Pendulum motions of extended lunar space elevator. Mechanics of Solids, 2014, 49, 506-517.	0.7	3
70	Planar oscillations of a dumb-bell of a variable length in a central field of Newtonian attraction. Exact approach. International Journal of Non-Linear Mechanics, 2015, 72, 1-5.	2.6	3
71	The effect of silver ions electrolytically introduced into colloidal nanodiamond solution on its viscosity and thermal conductivity. Colloid Journal, 2017, 79, 258-263.	1.3	3
72	Two forms of substrate for the bioluminescent reaction in three species of basidiomycetes. Mycology, 2019, 10, 84-91.	4.4	3

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73	Stationary configurations of space tether anchored on smaller primary in three-body problem. <i>Acta Astronautica</i> , 2019, 160, 572-582.	3.2	3
74	Satellite with periodical mass redistribution: relative equilibria and their stability. <i>Celestial Mechanics and Dynamical Astronomy</i> , 2019, 131, 1.	1.4	3
75	Force field properties and regions of particle accumulation on asteroid surface. <i>Acta Astronautica</i> , 2020, 174, 236-240.	3.2	3
76	Development of digital twin for composite pressure vessel. <i>Journal of Physics: Conference Series</i> , 2020, 1441, 012133.	0.4	3
77	Coupled-beam and coupled-bunch instabilities. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	3
78	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
79	IBS in a CAM-Dominated Electron Beam. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	2
80	Electron Beam Size Measurements in the Fermilab Electron Cooling System. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	2
81	Coherent synchrotron resonance. <i>Physical Review Special Topics: Accelerators and Beams</i> , 2007, 10, .	1.8	2
82	Planar oscillations of a vibrating dumbbell-like body in a central field of forces. <i>Cosmic Research</i> , 2011, 49, 353-359.	0.6	2
83	Comprehensive Approach to Job Design for Perforating in Hostile Wells with Advanced Coiled Tubing Gun Deployment System. , 2016, , .		2
84	Innovative Approach of Coiled Tubing Pipe Integrity Control in Chrome Completion and Harsh Environment. , 2016, , .		2
85	Strength and reliability analysis of metal-composite overwrapped pressure vessel. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	2
86	Multiscale modeling of the deformation and failure of composite structures. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	2
87	Detection of Hispidin by a Luminescent System from Basidiomycete <i>Armillaria borealis</i> . <i>Doklady Biochemistry and Biophysics</i> , 2018, 480, 173-176.	0.9	2
88	Parametric Landau damping of space charge modes. <i>Physical Review Accelerators and Beams</i> , 2018, 21, .	1.6	2
89	Nonwoven polycaprolactone scaffolds for tissue engineering: the choice of the structure and the method of cell seeding. <i>Genes and Cells</i> , 2017, , .	0.2	2
90	On the use of the K-means algorithm for determination of mass distributions in dumbbell-like celestial bodies. <i>Nelineinaya Dinamika</i> , 2018, 14, 45-52.	0.3	2

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91	Bunched Beam Stochastic Cooling in the Fermilab Recycler Ring. , 0, , .		1
92	Attainment of a High-Quality Electron Beam for Fermilab's 4.3 MeV Cooler. AIP Conference Proceedings, 2006, , .	0.4	1
93	OTR Measurements and Modeling of the Electron Beam Optics at the E-Cooling Facility. AIP Conference Proceedings, 2006, , .	0.4	1
94	Instabilities of cooled antiproton beam in recycler. , 2007, , .		1
95	Planar motion of an orbital pendulum with periodically oscillating point of suspension. Cosmic Research, 2007, 45, 167-169.	0.6	1
96	The existence and stability of "orbitally uniform" rotations of a vibrating dumbbell on an elliptic orbit. Doklady Physics, 2013, 58, 305-308.	0.7	1
97	Case study-based collaborative eLearning. , 2013, , .		1
98	Stability and bifurcations of relative equilibria of a pendulum suspended on the equator. Cosmic Research, 2013, 51, 209-212.	0.6	1
99	Increasing Matrix Stimulation Effectiveness in the Caspian Using Real-Time Downhole Measurements. , 2014, , .		1
100	The Lagrange differential-algebraic equations. Prikladnaya Matematika I Mekhanika, 2014, 78, 587-598.	0.4	1
101	Computational models for the stress analysis of metal composite overwrapped pressure vessels. AIP Conference Proceedings, 2016, , .	0.4	1
102	Studying the Proteomic Composition of Expired Air Condensate in Newborns on Breathing Support. Bulletin of Experimental Biology and Medicine, 2016, 160, 861-863.	0.8	1
103	Independent variations of the dependent variables in problems of the stability of steady-state motions in rigid body mechanics. Prikladnaya Matematika I Mekhanika, 2016, 80, 113-120.	0.4	1
104	Collocation of equilibria in gravitational field of triangular body via mass redistribution. Acta Astronautica, 2018, 146, 181-184.	3.2	1
105	Estimation of the failure-free operation for deployment of transformable space structures. Journal of Physics: Conference Series, 2018, 1050, 012042.	0.4	1
106	Dynamics of a Pendulum Anchored to a Rotating Asteroid. IFAC-PapersOnLine, 2018, 51, 867-872.	0.9	1
107	Energy-related policy in the housing sector of Bulgaria: in search for a meeting point of social and technical dimensions. IOP Conference Series: Earth and Environmental Science, 2019, 329, 012005.	0.3	1
108	Linear Invariant Relations in the Problem of the Motion of a Bundle of Two Bodies. Doklady Physics, 2020, 65, 147-148.	0.7	1

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109	Asymptotic Invariant Surfaces for Non-Autonomous Pendulum-Type Systems. Regular and Chaotic Dynamics, 2020, 25, 121-130.	0.8	1
110	Buckling of composite sandwich cylindrical shell with lattice anisogrid core under hydrostatic pressure. Journal of Physics: Conference Series, 2020, 1546, 012139.	0.4	1
111	Predicting outcomes of congenital diaphragmatic hernia by calculating liver herniation derives. Neonatology News Opinions Training, 2021, 9, 24-29.	0.2	1
112	Motion of a satellite with a variable mass distribution in a central field of Newtonian attraction. Nelineinaya Dinamika, 2017, 13, 519-531.	0.3	1
113	Thrombosis of the right atrium in a newborn: a favorable outcome. Pediatric Hematology/Oncology and Immunopathology, 2018, 17, 87-92.	0.3	1
114	Methods of the Host Address Faking. , 2007, , .		0
115	On the Motion of a Solid Body on Spherical Surfaces. Journal of Mathematical Sciences, 2014, 199, 501-509.	0.4	0
116	Stability solutions of a dumbbell-like system in an elliptical orbit. Journal of Physics: Conference Series, 2015, 641, 012004.	0.4	0
117	Effect of ionizing radiation on the luminescence of mycelium of luminous fungus Neonothopanus nambi. Doklady Biochemistry and Biophysics, 2015, 460, 30-33.	0.9	0
118	New Age of Coiled Tubing CT Oriented Perforationâ€”World First Application for Intelligent Completion in Hostile High-H2S Well. , 2016, , .		0
119	Dynamics of a triple asteroid and a massive point, subjected mutual attraction. , 2016, , .		0
120	High-Profile Rigless Well Interventions with Coiled Tubing Tower. , 2016, , .		0
121	Dynamics of a compound celestial body and a massive point, subjected mutual attraction. Procedia Engineering, 2017, 199, 759-764.	1.2	0
122	Equilibria in the gravitational field of a triangular body. Celestial Mechanics and Dynamical Astronomy, 2018, 130, 1.	1.4	0
123	Planar attitude motion of a satellite with a variable mass distribution in field of gravity of attracting center. AIP Conference Proceedings, 2018, , .	0.4	0
124	Gravitation fields approximation for some kinds of small celestial bodies on the base field of four attracting centers. AIP Conference Proceedings, 2019, , .	0.4	0
125	EVALUATING THE OPERATION RELIABILITY OF A NETWORK ELEMENT WITH FLOW ROUTING. Telecommunications and Radio Engineering (English Translation of Elektrosvyaz and Radiotekhnika), 2011, 70, 1855-1862.	0.4	0
126	The relevance of early ultrasound diagnosis in newborn infants with perinatal and surgical risk factors for thrombotic events. Akusherstvo I Ginekologiya (Russian Federation), 2017, 6_2017, 111-116.	0.3	0



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127	ULTRASOUND PREDICTORS OF SURVIVAL IN NEWBORNS WITH A LEFT SIDE CONGENITAL DIAPHRAGMATIC HERNIA. Russian Journal of Pediatric Surgery, 2018, 22, 235-240.	0.2	0
128	EVALUATION OF NORMAL FETAL LUNG VOLUME AND FETAL LUNG SIGNAL INTENSITY BY MAGNETIC-RESONANCE IMAGING. Russian Electronic Journal of Radiology, 2019, 9, 90-97.	0.2	0
129	Current methods for visual diagnosis in congenital diaphragmatic hernia. Akusherstvo I Ginekologiya (Russian Federation), 2019, 2_2019, 28-33.	0.3	0
130	Acute renal injury in newborns with malformations treated in the department of neonatal surgery of the federal perinatal center. Nephrology and Dialysis, 2019, 21, 58-65.	0.5	0
131	Effect of crab cavity high order modes on the coupled-bunch stability of High-Luminosity Large Hadron Collider. Physical Review Accelerators and Beams, 2019, 22, .	1.6	0
132	Comment on "Instability studies at the CERN Proton Synchrotron during transition crossing". Physical Review Accelerators and Beams, 2019, 22, .	1.6	0
133	Peculiarities of hemostasis in infants with congenital heart diseases in the first 12 hours of their life. Pediatric Hematology/Oncology and Immunopathology, 2019, 18, 29-34.	0.3	0
134	PRODUCTION OF GROWTH FACTORS AND CYTOKINES BY THE FETUS AS A PROGNOSTIC FACTOR IN THE DEVELOPMENT OF PULMONARY HYPERTENSION IN VERY PRETERM INFANTS WITH BRONCHOPULMONARY DYSPLASIA. PEDIATRIIA, 2020, 99, 64-69.	0.2	0
135	URINARY EXTRACELLULAR VESICLES AS MARKERS FOR KIDNEY DISEASES. PEDIATRIIA, 2020, 99, 154-163.	0.2	0