

Sergey Afonin

List of Publications by Year in descending order

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docs citations

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citing authors

#	ARTICLE	IF	CITATIONS
1	Structural parametric model of a piezoelectric nanodisplacement transducer. Doklady Physics, 2008, 53, 137-143.	0.7	30
2	Solution of the wave equation for the control of an electromagnetoelastic transducer. Doklady Mathematics, 2006, 73, 307-313.	0.6	29
3	Block diagrams of a multilayer piezoelectric motor for nano- and microdisplacements based on the transverse piezoeffect. Journal of Computer and Systems Sciences International, 2015, 54, 424-439.	0.6	22
4	Absolute stability conditions for a system controlling the deformation of an electromagnetoelastic transducer. Doklady Mathematics, 2006, 74, 943-948.	0.6	21
5	Generalized parametric structural model of a compound electromagnetoelastic transducer. Doklady Physics, 2005, 50, 77-82.	0.7	20
6	Stability of strain control systems of nano- and microdisplacement piezotransducers. Mechanics of Solids, 2014, 49, 196-207.	0.7	19
7	Elastic compliances and mechanical and adjusting characteristics of composite piezoelectric transducers. Mechanics of Solids, 2007, 42, 43-49.	0.7	15
8	A generalized structural-parametric model of an electromagnetoelastic converter for nano-and micrometric movement control systems: III. Transformation of parametric structural circuits of an electromagnetoelastic converter for nano-and micrometric movement control systems. Journal of Computer and Systems Sciences International, 2006, 45, 317-325.	0.6	14
9	Static and dynamic characteristics of multilayered electromagnetoelastic transducer of nano- and micrometric movements. Journal of Computer and Systems Sciences International, 2010, 49, 73-85.	0.6	13
10	Static and dynamic characteristics of a multi-layer electroelastic solid. Mechanics of Solids, 2009, 44, 935-950.	0.7	12
11	Design of static and dynamic characteristics of a piezoelectric nanomicrotransducer. Mechanics of Solids, 2010, 45, 123-132.	0.7	7
12	Parametric block diagrams of a multi-layer piezoelectric transducer of nano- and microdisplacements under transverse piezoelectric effect. Mechanics of Solids, 2017, 52, 81-94.	0.7	7
13	Generalized structural-parametric model of an electromagnetoelastic converter for control systems of nano-and micrometric movements: IV. Investigation and calculation of characteristics of step-piezodrive of nano-and micrometric movements. Journal of Computer and Systems Sciences International, 2006, 45, 1006-1013.	0.6	5
14	Absolute stability conditions for the control system of deformation of an electromagnetoelastic converter for nano- and micrometric movements. Journal of Computer and Systems Sciences International, 2008, 47, 111-117.	0.6	4
15	Investigation of static and dynamic characteristics of a piezomotor for nano-and micrometric movements. Journal of Computer and Systems Sciences International, 2008, 47, 778-785.	0.6	3
16	Block diagrams of a multilayer piezoelectric motor for nano- and microdisplacements based on the longitudinal piezoelectric effect. Journal of Computer and Systems Sciences International, 2013, 52, 97-105.	0.6	2
17	Multidimensional structural parametric model and block diagram of multilayer electro-magneto-elastic actuator of nano and micro displacements. Journal of Computer and Systems Sciences International, 2014, 53, 239-255.	0.6	2
18	Generalized structural-parametric model of electromagnetoelastic converter for control systems of nano- and micrometric movements: V. Multidimensional scheme. Journal of Computer and Systems Sciences International, 2007, 46, 324-335.	0.6	1

#	ARTICLE	IF	CITATIONS
19	Parametric Structural Schemes of Piezoactuators for Nano-and Micrometric Movements at a Longitudinal Piezoeffect. Mekhatronika, Avtomatizatsiya, Upravlenie, 2017, 18, 112-121.	0.4	1
20	Hysteresis characteristics of piezotransducer for nano- and micrometric movements and their harmonic linearization. Journal of Computer and Systems Sciences International, 2009, 48, 139-145.	0.6	0
21	Mechanical and control characteristics of multilayered piezodrives of nano- and micrometric movements for parallel and coded control. Journal of Computer and Systems Sciences International, 2011, 50, 964-982.	0.6	0
22	Correcting devices of control systems for deformation of multilayered piezodrives of nano- and micrometric movements. Journal of Computer and Systems Sciences International, 2011, 50, 81-92.	0.6	0
23	Mechanical and control characteristics of multilayer piezoelectric transducers of nano- and microdisplacements. Mechanics of Solids, 2013, 48, 270-284.	0.7	0
24	Parametric block diagrams of nano- and microdisplacement multilayer piezoelectric transducer in longitudinal piezoeffect. Mechanics of Solids, 2014, 49, 342-348.	0.7	0