

Sergey F Ermakov

List of Publications by Year in descending order

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33
papers

176
citations

1040056

9
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1125743

13
g-index

34
all docs

34
docs citations

34
times ranked

107
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of liquid crystals in the lubrication of living joints. <i>Smart Materials and Structures</i> , 1993, 2, 7-12.	3.5	24
2	The effect of liquid crystals on joint lubrication. <i>Wear</i> , 1994, 171, 7-12.	3.1	20
3	Liquid Crystals in Biotribology. <i>Biological and Medical Physics Series</i> , 2016, , .	0.4	17
4	A study of lubrication by liquid crystals. <i>Tribology International</i> , 1991, 24, 25-28.	5.9	14
5	Triboinduced adsorption of liquid-crystal nanomaterials under frictional interaction of solids. <i>Doklady Physics</i> , 2009, 54, 269-272.	0.7	13
6	Effect of lubricants and additives on the tribological performance of solids. Part 2. Active friction control. <i>Journal of Friction and Wear</i> , 2012, 33, 217-223.	0.5	11
7	Lubricity of cholesteric liquid-crystal nanomaterials in friction of solids. <i>Journal of Friction and Wear</i> , 2016, 37, 136-140.	0.5	10
8	The effect of lubricants and additives on the tribological performance of solids. Part 1. Passive friction control. <i>Journal of Friction and Wear</i> , 2012, 33, 72-87.	0.5	9
9	Liquid-Crystal Nanomaterials. <i>Springer Series in Materials Science</i> , 2018, , .	0.6	9
10	On the mechanism of cholesteric liquid crystal lubricity in metal joint friction. <i>Journal of Friction and Wear</i> , 2015, 36, 496-501.	0.5	7
11	Synthesis and study of triboengineering characteristics of a new nanosize ceramic nickel phosphoromolybdate additive to greases. <i>Journal of Friction and Wear</i> , 2010, 31, 426-432.	0.5	6
12	Lubricants with ceramic nanoadditives and wear-resistant surface structures of heavy-duty frictional joints. <i>Russian Engineering Research</i> , 2011, 31, 454-457.	0.6	6
13	Thermoinduced effect of reversible lubricating ability of cholesteric liquid-crystalline nanomaterials in friction of solids. <i>Doklady Physical Chemistry</i> , 2014, 457, 123-126.	0.9	6
14	Tribological principles of developing medicinal preparations based on blood serum as a liquid-crystalline medium for therapeutic correction of synovial joints. <i>Journal of Friction and Wear</i> , 2011, 32, 49-53.	0.5	5
15	Relation of the structural-mechanical and antifriction properties of the synovial medium of the joints. <i>Mechanics of Composite Materials</i> , 1988, 24, 188-194.	1.4	3
16	Influence of a lubricant modified with fine-dispersed SiO_2 -sialon on a steel surface structure under friction loading. <i>Journal of Surface Investigation</i> , 2008, 2, 738-743.	0.5	2
17	Influence of the alkyl radical on the optical activity of cholesteric liquid-crystal nanomaterials. <i>Russian Engineering Research</i> , 2009, 29, 794-798.	0.6	2
18	Brief Review of Liquid Crystals. <i>Biological and Medical Physics Series</i> , 2016, , 37-56.	0.4	2

#	ARTICLE	IF	CITATIONS
19	Tribology and Lubrication of Solids. Springer Series in Materials Science, 2018, , 21-99.	0.6	2
20	Current notions of the biomechanics of the synovial medium of joints (a review). Mechanics of Composite Materials, 1993, 28, 378-391.	1.4	1
21	A computerized system for investigating friction processes in synovial joints. Journal of Friction and Wear, 2009, 30, 164-168.	0.5	1
22	Improvement of the triboengineering and physicochemical properties of Puma lubricating compositions with lithium molybdophosphate additive. Journal of Friction and Wear, 2009, 30, 182-187.	0.5	1
23	The screening effect of cholesteric liquid-crystalline nanomaterials introduced into lubricating media. Doklady Physics, 2012, 57, 390-392.	0.7	1
24	Effect of Liquid Crystals on Biological Mechanisms of Reducing Joint Friction. Biological and Medical Physics Series, 2016, , 123-166.	0.4	1
25	Modern Concepts of Friction, Wear and Lubrication of Joints. Biological and Medical Physics Series, 2016, , 99-121.	0.4	1
26	Quantification of wt % F stabilizing water in soap-thickened plastic lubricants by the method of IR Fourier transform spectroscopy. Journal of Friction and Wear, 2017, 38, 211-213.	0.5	1
27	Tribological Properties of Liquid-Crystal Nanomaterials. Springer Series in Materials Science, 2018, , 143-186.	0.6	1
28	Triboengineering characteristics of composite plastic lubricating materials based on vacuum distillates of oil and ethanolamines. Journal of Friction and Wear, 2015, 36, 429-434.	0.5	0
29	Biomechanics of Joint Synovia. Biological and Medical Physics Series, 2016, , 1-36.	0.4	0
30	Modern Concepts of Friction and Lubrication of Solids. Biological and Medical Physics Series, 2016, , 57-97.	0.4	0
31	Structure and Properties of Liquid-Crystal Nanomaterials. Springer Series in Materials Science, 2018, , 1-20.	0.6	0
32	Practical Application of Liquid-Crystal Nanomaterial in Engineering and Medicine. Springer Series in Materials Science, 2018, , 187-207.	0.6	0
33	Liquid Crystals as Effective Drugs for Treatment of Articular Disorders and Similar Pathologies. Biological and Medical Physics Series, 2016, , 167-203.	0.4	0