

Sergey F Ermakov

List of Publications by Year in descending order

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33
papers

176
citations

1040056

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13
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34
all docs

34
docs citations

34
times ranked

107
citing authors

#	ARTICLE	IF	CITATIONS
1	Structure and Properties of Liquid-Crystal Nanomaterials. Springer Series in Materials Science, 2018, , 1-20.	0.6	0
2	Tribology and Lubrication of Solids. Springer Series in Materials Science, 2018, , 21-99.	0.6	2
3	Tribological Properties of Liquid-Crystal Nanomaterials. Springer Series in Materials Science, 2018, , 143-186.	0.6	1
4	Practical Application of Liquid-Crystal Nanomaterial in Engineering and Medicine. Springer Series in Materials Science, 2018, , 187-207.	0.6	0
5	Liquid-Crystal Nanomaterials. Springer Series in Materials Science, 2018, , .	0.6	9
6	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
7	Lubricity of cholesteric liquid-crystal nanomaterials in friction of solids. Journal of Friction and Wear, 2016, 37, 136-140.	0.5	10
8	Effect of Liquid Crystals on Biological Mechanisms of Reducing Joint Friction. Biological and Medical Physics Series, 2016, , 123-166.	0.4	1
9	Biomechanics of Joint Synovia. Biological and Medical Physics Series, 2016, , 1-36.	0.4	0
10	Modern Concepts of Friction and Lubrication of Solids. Biological and Medical Physics Series, 2016, , 57-97.	0.4	0
11	Modern Concepts of Friction, Wear and Lubrication of Joints. Biological and Medical Physics Series, 2016, , 99-121.	0.4	1
12	Brief Review of Liquid Crystals. Biological and Medical Physics Series, 2016, , 37-56.	0.4	2
13	Liquid Crystals in Biotribology. Biological and Medical Physics Series, 2016, , .	0.4	17
14	Liquid Crystals as Effective Drugs for Treatment of Articular Disorders and Similar Pathologies. Biological and Medical Physics Series, 2016, , 167-203.	0.4	0
15	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
16	On the mechanism of cholesteric liquid crystal lubricity in metal joint friction. Journal of Friction and Wear, 2015, 36, 496-501.	0.5	7
17	Thermoinduced effect of reversible lubricating ability of cholesteric liquid-crystalline nanomaterials in friction of solids. Doklady Physical Chemistry, 2014, 457, 123-126.	0.9	6
18	The screening effect of cholesteric liquid-crystalline nanomaterials introduced into lubricating media. Doklady Physics, 2012, 57, 390-392.	0.7	1

#	ARTICLE	IF	CITATIONS
19	The effect of lubricants and additives on the tribological performance of solids. Part 1. Passive friction control. Journal of Friction and Wear, 2012, 33, 72-87.	0.5	9
20	Effect of lubricants and additives on the tribological performance of solids. Part 2. Active friction control. Journal of Friction and Wear, 2012, 33, 217-223.	0.5	11
21	Tribological principles of developing medicinal preparations based on blood serum as a liquid-crystalline medium for therapeutic correction of synovial joints. Journal of Friction and Wear, 2011, 32, 49-53.	0.5	5
22	Lubricants with ceramic nanoadditives and wear-resistant surface structures of heavy-duty frictional joints. Russian Engineering Research, 2011, 31, 454-457.	0.6	6
23	Synthesis and study of triboengineering characteristics of a new nanosize ceramic nickel phosphoromolybdate additive to greases. Journal of Friction and Wear, 2010, 31, 426-432.	0.5	6
24	A computerized system for investigating friction processes in synovial joints. Journal of Friction and Wear, 2009, 30, 164-168.	0.5	1
25	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
26	Influence of the alkyl radical on the optical activity of cholesteric liquid-crystal nanomaterials. Russian Engineering Research, 2009, 29, 794-798.	0.6	2
27	Triboinduced adsorption of liquid-crystal nanomaterials under frictional interaction of solids. Doklady Physics, 2009, 54, 269-272.	0.7	13
28	Influence of a lubricant modified with fine-dispersed SiO_2 -sialon on a steel surface structure under friction loading. Journal of Surface Investigation, 2008, 2, 738-743.	0.5	2
29	The effect of liquid crystals on joint lubrication. Wear, 1994, 171, 7-12.	3.1	20
30	Current notions of the biomechanics of the synovial medium of joints (a review). Mechanics of Composite Materials, 1993, 28, 378-391.	1.4	1
31	Role of liquid crystals in the lubrication of living joints. Smart Materials and Structures, 1993, 2, 7-12.	3.5	24
32	A study of lubrication by liquid crystals. Tribology International, 1991, 24, 25-28.	5.9	14
33	Relation of the structural-mechanical and antifriction properties of the synovial medium of the joints. Mechanics of Composite Materials, 1988, 24, 188-194.	1.4	3