

# Yulia Yu Makhovskaya

## List of Publications by Year in descending order

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24  
papers

208  
citations

1040056

9  
h-index

1058476

14  
g-index

26  
all docs

26  
docs citations

26  
times ranked

108  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of aluminum-alloy composition on self-lubrication of frictional surfaces. <i>Wear</i> , 2003, 254, 1276-1280.	3.1	35
2	Modeling of friction at different scale levels. <i>Mechanics of Solids</i> , 2010, 45, 390-398.	0.7	21
3	Combined effect of surface microgeometry and adhesion in normal and sliding contacts of elastic bodies. <i>Friction</i> , 2017, 5, 339-350.	6.4	21
4	Sliding of a wavy indenter on a viscoelastic layer surface in the case of adhesion. <i>Mechanics of Solids</i> , 2015, 50, 439-450.	0.7	14
5	The combined effect of capillarity and elasticity in contact interaction. <i>Tribology International</i> , 1999, 32, 507-515.	5.9	12
6	Sliding of a spherical indenter on a viscoelastic foundation with the forces of molecular attraction taken into account. <i>Journal of Applied Mechanics and Technical Physics</i> , 2014, 55, 81-88.	0.5	12
7	Modeling of soft phase transfer to the surface of multicomponent aluminum alloy in friction. <i>Physical Mesomechanics</i> , 2016, 19, 239-247.	1.9	12
8	Adhesion effect in sliding of a periodic surface and an individual indenter upon a viscoelastic base. <i>Journal of Strain Analysis for Engineering Design</i> , 2016, 51, 286-293.	1.8	12
9	Elastic contact between nominally plane surfaces in the presence of roughness and adhesion. <i>Mechanics of Solids</i> , 2017, 52, 435-443.	0.7	11
10	An approach to solving the problems on interaction between elastic bodies in the presence of adhesion. <i>Doklady Physics</i> , 2004, 49, 534-538.	0.7	8
11	Adhesion effects in contact interaction of solids. <i>Comptes Rendus - Mecanique</i> , 2008, 336, 118-125.	2.1	8
12	A model of the adhesive component of the sliding friction force. <i>Wear</i> , 2011, 270, 628-633.	3.1	7
13	Adhesive resistance in the rolling of elastic bodies. <i>Prikladnaya Matematika I Mekhanika</i> , 2007, 71, 485-493.	0.4	6
14	Modeling Sliding Friction of a Multiscale Wavy Surface over a Viscoelastic Foundation Taking into Account Adhesion. <i>Lubricants</i> , 2019, 7, 13.	2.9	6
15	Capillary adhesion in the contact between elastic solids. <i>Prikladnaya Matematika I Mekhanika</i> , 1999, 63, 117-125.	0.4	4
16	Modeling frictional heating of fibrous composite brake disk. <i>Journal of Friction and Wear</i> , 2015, 36, 286-292.	0.5	4
17	The sliding of viscoelastic bodies when there is adhesion. <i>Prikladnaya Matematika I Mekhanika</i> , 2005, 69, 305-314.	0.4	3
18	Modeling contact of indenter with elastic half-space with adhesive attraction assigned in arbitrary form. <i>Journal of Friction and Wear</i> , 2016, 37, 301-307.	0.5	3

#	ARTICLE	IF	CITATIONS
19	Adhesive Interaction of Elastic Bodies with Regular Surface Relief. <i>Mechanics of Solids</i> , 2020, 55, 1105-1114.	0.7	3
20	Modeling of Stationary Frictional Heating of a Coated Body. <i>Journal of Friction and Wear</i> , 2019, 40, 258-265.	0.5	2
21	Effect of surface relief on sliding friction of viscoelastic bodies. <i>Acta Mechanica</i> , 2021, 232, 1933.	2.1	2
22	Moving contact of elastic bodies with surface microgeometry. , 2022, , 101-133.		0
23	Additional displacement due to microgeometry of contacting bodies. , 2022, , 67-100.		0
24	Microgeometry effect in sliding contact of viscoelastic solids. , 2022, , 135-203.		0