

# L M Dorogin

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4529536/publications.pdf>

Version: 2024-02-01

44  
papers

757  
citations

430754

18  
h-index

552653

26  
g-index

44  
all docs

44  
docs citations

44  
times ranked

800  
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of surface roughness and viscoelasticity on rubber adhesion. <i>Soft Matter</i> , 2017, 13, 3602-3621.	1.2	89
2	Elasticity and yield strength of pentagonal silver nanowires: In situ bending tests. <i>Materials Chemistry and Physics</i> , 2014, 143, 1026-1031.	2.0	50
3	Rubber contact mechanics: adhesion, friction and leakage of seals. <i>Soft Matter</i> , 2017, 13, 9103-9121.	1.2	47
4	Role of Preload in Adhesion of Rough Surfaces. <i>Physical Review Letters</i> , 2017, 118, 238001.	2.9	36
5	Adhesion and Mechanical Properties of PDMS-Based Materials Probed with AFM: A Review. <i>Reviews on Advanced Materials Science</i> , 2018, 56, 62-78.	1.4	36
6	Application of polydimethylsiloxane in photocatalyst composite materials: A review. <i>Reactive and Functional Polymers</i> , 2021, 158, 104781.	2.0	27
7	Real-time manipulation of ZnO nanowires on a flat surface employed for tribological measurements: Experimental methods and modeling. <i>Physica Status Solidi (B): Basic Research</i> , 2013, 250, 305-317.	0.7	26
8	Shape Restoration Effect in Ag@SiO <sub>2</sub> Core-Shell Nanowires. <i>Nano Letters</i> , 2014, 14, 5201-5205.	4.5	26
9	Mechanical and structural characterizations of gamma- and alpha-alumina nanofibers. <i>Materials Characterization</i> , 2015, 107, 119-124.	1.9	25
10	Mechanical characterization of TiO <sub>2</sub> nanofibers produced by different electrospinning techniques. <i>Materials Characterization</i> , 2015, 100, 98-103.	1.9	25
11	Crystal mismatched layers in pentagonal nanorods and nanoparticles. <i>Physica Status Solidi (B): Basic Research</i> , 2010, 247, 288-298.	0.7	24
12	Manipulation of nanoparticles of different shapes inside a scanning electron microscope. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 133-140.	1.5	24
13	The effect of substrate roughness on the static friction of CuO nanowires. <i>Surface Science</i> , 2012, 606, 1393-1399.	0.8	23
14	Real-time measurements of sliding friction and elastic properties of ZnO nanowires inside a scanning electron microscope. <i>Solid State Communications</i> , 2011, 151, 1244-1247.	0.9	22
15	Modeling of kinetic and static friction between an elastically bent nanowire and a flat surface. <i>Journal of Materials Research</i> , 2012, 27, 580-585.	1.2	22
16	In situ measurement of the kinetic friction of ZnO nanowires inside a scanning electron microscope. <i>Applied Surface Science</i> , 2012, 258, 3227-3231.	3.1	21
17	In situ measurements of ultimate bending strength of CuO and ZnO nanowires. <i>European Physical Journal B</i> , 2012, 85, 1.	0.6	19
18	Complex tribomechanical characterization of ZnO nanowires: nanomanipulations supported by FEM simulations. <i>Nanotechnology</i> , 2016, 27, 335701.	1.3	19

#	ARTICLE	IF	CITATIONS
19	Real-time manipulation of gold nanoparticles inside a scanning electron microscope. <i>Solid State Communications</i> , 2011, 151, 688-692.	0.9	17
20	Analysis of static friction and elastic forces in a nanowire bent on a flat surface: A comparative study. <i>Tribology International</i> , 2014, 72, 31-34.	3.0	15
21	Adhesion between rubber and glass in dry and lubricated condition. <i>Journal of Chemical Physics</i> , 2018, 148, 234702.	1.2	14
22	Structural transformations in nano- and microobjects triggered by disclinations. <i>Journal of Materials Research</i> , 2012, 27, 545-551.	1.2	13
23	Adhesion, friction and viscoelastic properties for non-aged and aged Styrene Butadiene rubber. <i>Tribology International</i> , 2018, 121, 78-83.	3.0	13
24	Misfit layer formation in icosahedral nanoparticles. <i>Technical Physics Letters</i> , 2008, 34, 779-781.	0.2	11
25	Simultaneous measurement of static and kinetic friction of ZnO nanowires in situ with a scanning electron microscope. <i>Micron</i> , 2012, 43, 1140-1146.	1.1	11
26	Some aspects of formation and tribological properties of silver nanodumbbells. <i>Nanoscale Research Letters</i> , 2014, 9, 186.	3.1	11
27	Electron beam induced growth of silver nanowhiskers. <i>Journal of Crystal Growth</i> , 2015, 410, 63-68.	0.7	11
28	Contact mechanics for polydimethylsiloxane: from liquid to solid. <i>Soft Matter</i> , 2018, 14, 1142-1148.	1.2	11
29	Pentagonal Nanorods and Nanoparticles with Mismatched Shell Layers. <i>Journal of Nanoscience and Nanotechnology</i> , 2010, 10, 6136-6143.	0.9	9
30	Mechanical properties of sol-gel derived SiO <sub>2</sub> nanotubes. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1808-1814.	1.5	9
31	Transparent ZnO-coated polydimethylsiloxane-based material for photocatalytic purification applications. <i>Journal of Coatings Technology Research</i> , 2020, 17, 573-579.	1.2	8
32	On the retraction of an adhesive cylindrical indenter from a viscoelastic substrate. <i>Tribology International</i> , 2021, 164, 107234.	3.0	8
33	Mechanical characterisation of pentagonal gold nanowires in three different test configurations: A comparative study. <i>Micron</i> , 2019, 124, 102686.	1.1	7
34	Hydrophilic polydimethylsiloxane-based sponges for dewatering applications. <i>Materials Letters</i> , 2020, 263, 127278.	1.3	7
35	A model of whisker crystal growth from a pentagonal small particle. <i>Technical Physics Letters</i> , 2014, 40, 174-176.	0.2	5
36	Metal nanodumbbells for nanomanipulations and tribological experiments. <i>Physica Scripta</i> , 2015, 90, 094007.	1.2	4

#	ARTICLE	IF	CITATIONS
37	Structural factor in bending testing of fivefold twinned nanowires revealed by finite element analysis. <i>Physica Scripta</i> , 2016, 91, 115701.	1.2	4
38	Formation and characterization of microcantilevers produced from ionic liquid by electron beam irradiation. <i>Journal of Molecular Liquids</i> , 2017, 229, 45-50.	2.3	3
39	Abrupt elastic-to-plastic transition in pentagonal nanowires under bending. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 2468-2476.	1.5	3
40	Phase transformations in icosahedral small copper particles during their annealing in different gas media. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2015, 79, 1098-1100.	0.1	1
41	Elastic Properties of Oxide Nanowhiskers Prepared from Electrolytically Deposited Copper. <i>Russian Physics Journal</i> , 2015, 58, 843-847.	0.2	1
42	The Study of Nanoindentation of Atomically Flat GaAs Surface using the Tip of Atomic-Force Microscope. <i>Semiconductors</i> , 2019, 53, 2110-2114.	0.2	0
43	Adhesion of polydimethylsiloxane during molecular cross-linking. <i>Letters on Materials</i> , 2019, 9, 58-63.	0.2	0
44	Metal nanoparticles as an electromagnetic microwave heat-cure agent for polydimethylsiloxane elastomers. <i>Letters on Materials</i> , 2022, 12, 49-53.	0.2	0