

Dmitry G Buslovich

List of Publications by Year in descending order

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papers

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#	ARTICLE	IF	CITATIONS
1	Effect of Adhesion on Mechanical and Tribological Properties of Glass Fiber Composites, Based on Ultra-High Molecular Weight Polyethylene Powders with Various Initial Particle Sizes. <i>Materials</i> , 2020, 13, 1602.	2.9	29
2	Taguchi Optimization of Parameters for Feedstock Fabrication and FDM Manufacturing of Wear-Resistant UHMWPE-Based Composites. <i>Materials</i> , 2020, 13, 2718.	2.9	19
3	Increasing Wear Resistance of UHMWPE by Loading Enforcing Carbon Fibers: Effect of Irreversible and Elastic Deformation, Friction Heating, and Filler Size. <i>Materials</i> , 2020, 13, 338.	2.9	19
4	High Performance Polymer Composites: A Role of Transfer Films in Ensuring Tribological Properties—A Review. <i>Polymers</i> , 2022, 14, 975.	4.5	14
5	The effect of annealing of milled carbon fibers on the mechanical and tribological properties of solid lubricant thermoplastic polyimide-based composites. <i>Polymer Engineering and Science</i> , 2020, 60, 2735-2748.	3.1	13
6	Effect of Various Type of Nanoparticles on Mechanical and Tribological Properties of Wear-Resistant PEEK + PTFE-Based Composites. <i>Materials</i> , 2021, 14, 1113.	2.9	13
7	Extrudable polymer-polymer composites based on ultra-high molecular weight polyethylene. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	11
8	Wear-resistant polyetheretherketone composites. <i>Materials Today: Proceedings</i> , 2018, 5, 25976-25982.	1.8	11
9	Experimental—FEM Study on Effect of Tribological Load Conditions on Wear Resistance of Three-Component High-Strength Solid-Lubricant PI-Based Composites. <i>Polymers</i> , 2021, 13, 2837.	4.5	11
10	Estimating Low- and High-Cyclic Fatigue of Polyimide-CF-PTFE Composite through Variation of Mechanical Hysteresis Loops. <i>Materials</i> , 2022, 15, 4656.	2.9	11
11	Structure, as well as the Tribological and Mechanical Properties, of Extrudable Polymer-Polymer-UHMWPE Composites for 3D Printing. <i>Journal of Friction and Wear</i> , 2019, 40, 107-115.	0.5	9
12	Development of a Wear-Resistant Extrudable Composite Material Based on an Ultrahigh-Molecular Polyethylene with Predetermined Properties. <i>Mechanics of Composite Materials</i> , 2020, 56, 15-26.	1.4	8
13	Effect of Transfer Film on Tribological Properties of Anti-Friction PEI- and PI-Based Composites at Elevated Temperatures. <i>Polymers</i> , 2022, 14, 1215.	4.5	8
14	Comparison of structure and tribotechnical properties of extrudable UHMWPE composites fabricated by HIP and FDM techniques. <i>AIP Conference Proceedings</i> , 2018, , .	0.4	7
15	Mechanical and tribotechnical properties of polyimide based solid lubricant composites. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	7
16	Comparative Analysis of Tribological and Mechanical Properties of Extrudable Polymer-UHMWPE Composites Fabricated by 3D Printing and Hot-Pressing Methods. <i>Journal of Friction and Wear</i> , 2020, 41, 228-235.	0.5	7
17	Design of Wear-Resistant UHMWPE-Based Composites Loaded with Wollastonite Microfibers Treated with Various Silane Coupling Agents. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 4511.	2.5	6
18	Effect of ultrasonic impact treatment on mechanical properties of 3D-printed Ti-6Al-4V titanium alloy parts. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	5

#	ARTICLE	IF	CITATIONS
19	The Effect of Physical-Chemical Nature of UHMWPE and PPS Thermoplastic Matrices on the Formation of Mechanical and Tribological Properties of their Carbon Fiber Filled Composites. Russian Physics Journal, 2020, 63, 554-562.	0.4	5
20	Solid-Lubricant, Polymer "Polymeric and Functionalized Fiber" and Powder Reinforced Composites of Ultra-High Molecular Weight Polyethylene. IOP Conference Series: Earth and Environmental Science, 2018, 115, 012010.	0.3	4
21	UHMWPE-Based Glass-Fiber Composites Fabricated by FDM. Multiscaling Aspects of Design, Manufacturing and Performance. Materials, 2021, 14, 1515.	2.9	4
22	Structure and tribomechanical properties of polymer compacts fabricated by ultrasonic consolidation and compression moulding of UHMWPE powder. AIP Conference Proceedings, 2018, , .	0.4	3
23	The role of permolecular structure in the tribomechanical performance of extrudable polymer components of ultrahigh molecular weight polyethylene. AIP Conference Proceedings, 2018, , .	0.4	3
24	Computer-Aided Design of the Composition of Extrudable Polymer "Polymer UHMWPE Composites with Specified Antifriction and Mechanical Properties. Journal of Friction and Wear, 2019, 40, 501-510.	0.5	3
25	Influence of load and sliding velocity on wear resistance of solid-lubricant composites of ultra-high molecular weight polyethylene. AIP Conference Proceedings, 2017, , .	0.4	2
26	Structure and tribomechanical properties of extrudable ultra-high molecular weight polyethylene composites fabricated by 3D-printing. AIP Conference Proceedings, 2019, , .	0.4	2
27	Antifriction and Mechanical Properties of the Thermoplastic Matrix of Polyetheretherketone-Based Composites. Journal of Friction and Wear, 2020, 41, 310-317.	0.5	2
28	Wear-Resistant Glass-Filled Composites Based on Ultrahigh-Molecular-Weight Polyethylene. Role of Adhesion Varied with Coupling Agents. Physical Mesomechanics, 2021, 24, 548-560.	1.9	2
29	Thermal oxidation of the Ti "6Al" 4V/TiC titanium composite fabricated by laser metal deposition. AIP Conference Proceedings, 2020, , .	0.4	2
30	Development of Two-Component Polymer-Polymeric Composites Based on UHMWPE-PP Blends for Additive Manufacturing. Journal of Physics: Conference Series, 2019, 1260, 062017.	0.4	1
31	Efficiency of glass fibers functionalization with different silane-containing modifiers for improving mechanical and tribotechnical properties of ultra-high-molecular weight polyethylene composites. AIP Conference Proceedings, 2019, , .	0.4	1
32	Effect of type and size of KH550 modified filler on mechanical and tribotechnical properties of UHMWPE composites. AIP Conference Proceedings, 2019, , .	0.4	1
33	Effect of oxidation on wear resistance of 3D-printed titanium alloy Ti-6Al-4V parts. AIP Conference Proceedings, 2019, , .	0.4	1
34	The Role of Elastic Recovery in Formation of Tribological Properties of Ultra-High-Molecular Weight Polyethylene with Various Sizes of Initial Powder. Russian Physics Journal, 2020, 63, 867-876.	0.4	1
35	Two-component feedstock based on ultra-high molecular weight polyethylene for additive manufacturing of medical products. Advanced Industrial and Engineering Polymer Research, 2021, 4, 235-235.	4.7	1
36	MECHANICAL AND TRIBOTECHNICAL PROPERTIES OF MULTICOMPONENT SOLID LUBRICANT COMPOSITES BASED ON ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE. ChemChemTech, 2018, 61, .	0.3	1

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37	Mechanical and tribological properties of thermoplastic polyetheretherketone based nanocomposites. AIP Conference Proceedings, 2020, , .	0.4	1
38	A combined method for increasing wear resistance of Ti-6Al-4V parts fabricated by additive manufacturing. AIP Conference Proceedings, 2020, , .	0.4	1
39	Mechanical and tribological properties of polyimide based composites reinforced with surface-modified short carbon and glass fibers. AIP Conference Proceedings, 2020, , .	0.4	1
40	Experimental-theoretical design of multicomponent UHMWPE composites with prescribed mechanical and tribotechnical properties. AIP Conference Proceedings, 2018, , .	0.4	0
41	Impact of modification induced surface structure changes upon deformation behavior of polymer grafts under cyclic contact loading. AIP Conference Proceedings, 2018, , .	0.4	0
42	Effects of basalt fibers and particles in providing tribotechnical properties of UHMWPE composites under varying wear test conditions. AIP Conference Proceedings, 2018, , .	0.4	0
43	Influence of loading short carbon fibers (CF) on tribotechnical properties of UHMWPE composites at various testing conditions. AIP Conference Proceedings, 2018, , .	0.4	0
44	Structure and tribomechanical properties of multicomponent extrudable "UHMWPE-HDPE-g-SMA-PP" composites fabricated by fused deposition modeling. AIP Conference Proceedings, 2019, , .	0.4	0
45	Effect of UHMWPE powder size onto tribological and mechanical properties of composites loaded with functionalized chopped glass fibers. AIP Conference Proceedings, 2019, , .	0.4	0
46	Three-Component Composite Based on Ultra-High Molecular Weight Polyethylene for Additive Manufacturing. Key Engineering Materials, 0, 839, 26-31.	0.4	0
47	Multicomponent Antifriction Composite Based on Extrudable Matrix "UHMWPE - HDPE-g-VTMS - PP" for Additive Manufacturing. IOP Conference Series: Materials Science and Engineering, 2020, 795, 012001.	0.6	0
48	Mechanical and tribological properties of thermoplastic polyimide based composites loaded with various PTFE fillers. AIP Conference Proceedings, 2020, , .	0.4	0
49	Design of polymer composites based on visualization of experimental data. AIP Conference Proceedings, 2020, , .	0.4	0
50	Three-Component Wear-Resistant PEEK-Based Composites Filled with PTFE and MoS ₂ : Composition Optimization, Structure Homogenization, and Self-lubricating Effect. Springer Tracts in Mechanical Engineering, 2021, , 275-299.	0.3	0
51	Development of an Optimal Composition of Three-Species High-Strength Wear-Resistant Composites Based on Polyimide. Prikladna Mehanika, TehniÄeska Fizika, 2021, 62, 162-171.	0.0	0
52	DEVELOPMENT OF AN OPTIMAL COMPOSITION OF THREE-COMPONENT HIGH-STRENGTH WEAR-RESISTANT COMPOSITES BASED ON POLYIMIDE. Journal of Applied Mechanics and Technical Physics, 2021, 62, 1028-1036.	0.5	0