Pantcho Stoyanov

List of Publications by Year
in descending order

27 papers	563 citations	567281 15 h-index	610901 24 g-index
27 all docs	27 docs citations	27 times ranked	509 citing authors

#	Article	IF	Citations
1	Tribological Evaluation of Lead-Free MoS2-Based Solid Film Lubricants as Environmentally Friendly Replacements for Aerospace Applications. Lubricants, 2022, 10, 7.	2.9	11
2	Microstructural and Tribological Behavior of Thermal Spray CrMnFeCoNi High Entropy Alloy Coatings. Journal of Thermal Spray Technology, 2022, 31, 1285-1301.	3.1	31
3	Tribological Performance of High-Entropy Coatings (HECs): A Review. Materials, 2022, 15, 3699.	2.9	14
4	Tribological characteristics of Co-based plasma sprayed coating in extreme conditions. Results in Surfaces and Interfaces, 2021, 3, 100007.	2.4	5
5	Tribological insights of Co- and Ni-based alloys in extreme conditions. Wear, 2021, 477, 203827.	3.1	9
6	Achieving Ultra-Low Friction with Diamond/Metal Systems in Extreme Environments. Materials, 2021, 14, 3791.	2.9	2
7	Insights into the Tribological Characteristic of Cu-Based Coatings Under Extreme Contact Conditions. Jom, 2020, 72, 2191-2197.	1.9	16
8	Atomistic Insights Into Lubricated Tungsten/Diamond Sliding Contacts. Frontiers in Mechanical Engineering, 2019, 5, .	1.8	4
9	Friction and Wear Characteristics of Single Crystal Ni-Based Superalloys at Elevated Temperatures. Tribology Letters, 2018, 66, 1.	2.6	15
10	In Situ Digital Holography for 3D Topography Analysis of Tribological Experiments. Microtechnology and MEMS, 2018, , 289-305.	0.2	0
11	Insights into the static friction behavior of Ni-based superalloys. Surface and Coatings Technology, 2018, 352, 634-641.	4.8	8
12	Microstructure, mechanical properties and friction behavior of magnetron-sputtered V-C coatings. Surface and Coatings Technology, 2017, 321, 366-377.	4.8	13
13	Scaling Effects on Materials Tribology: From Macro to Micro Scale. Materials, 2017, 10, 550.	2.9	44
14	Combining in situ and online approaches to monitor interfacial processes in lubricated sliding contacts. MRS Communications, 2016, 6, 301-308.	1.8	9
15	Microstructural and Mechanical Characterization of Mo-containing Stellite Alloys Produced by three Dimensional Printing. Procedia CIRP, 2016, 45, 167-170.	1.9	17
16	Dependence of tribofilm characteristics on the running-in behavior of aluminumâ€“silicon alloys. Journal of Materials Science, 2015, 50, 5524-5532.	3.7	12
17	Surface Softening in Metalâ€“Ceramic Sliding Contacts: An Experimental and Numerical Investigation. ACS Nano, 2015, 9, 1478-1491.	14.6	22
18	Nanoscale sliding friction phenomena at the interface of diamond-like carbon and tungsten. Acta Materialia, 2014, 67, 395-408.	7.9	44

#	ARTICLE	IF	CITATIONS
19	Experimental and Numerical Atomistic Investigation of the Third Body Formation Process in Dry Tungsten/Tungsten-Carbide Tribo Couples. Tribology Letters, 2013, 50, 67-80.	2.6	42
20	Friction and Wear Mechanisms of Tungstenâ€"Carbon Systems: A Comparison of Dry and Lubricated Conditions. ACS Applied Materials & Interfaces, 2013, 5, 6123-6135.	8.0	44
21	The running-in mechanisms of binary brass studied by in-situ topography measurements. Wear, 2013, 303, 465-472.	3.1	35
22	Microtribological performance of Auâ€"MoS2 nanocomposite and Au/MoS2 bilayer coatings. Tribology International, 2012, 52, 144-152.	5.9	24
23	Scaling effects between micro- and macro-tribology for a Tiâ€"MoS2 coating. Wear, 2012, 274-275, 149-161.	3.1	37
24	Influence of humidity on the tribological performance of unmodified soybean and sunflower oils. Lubrication Science, 2011, 23, 301-311.	2.1	18
25	Micro-scale sliding contacts on Au and Au-MoS2 coatings. Surface and Coatings Technology, 2010, 205, 1449-1454.	4.8	22
26	Microtribological Performance of Auâ€"MoS2 and Tiâ€"MoS2 Coatings with Varying Contact Pressure. Tribology Letters, 2010, 40, 199-211.	2.6	49
27	Micro-tribological performance of MoS2 lubricants with varying Au content. Surface and Coatings Technology, 2008, 203, 761-765.	4.8	16