

Abdel Dorgham

List of Publications by Year in descending order

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Version: 2024-02-01

19
papers

217
citations

1307594

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1058476

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docs citations

19
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162
citing authors

#	ARTICLE	IF	CITATIONS
1	Understanding the Mechanism of Load-Carrying Capacity between Parallel Rough Surfaces through a Deterministic Mixed Lubrication Model. <i>Lubricants</i> , 2022, 10, 12.	2.9	6
2	Nanoscale viscosity of triboreactive interfaces. <i>Nano Energy</i> , 2021, 79, 105447.	16.0	6
3	Towards optimum additive performance: A numerical study to understand the influence of roughness parameters on the zinc dialkyldithiophosphates tribofilm growth. <i>Lubrication Science</i> , 2021, 33, 1-14.	2.1	5
4	Oil-soluble ionic liquid to lubricate silicon. <i>Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology</i> , 2021, 235, 1995-2006.	1.8	2
5	Understanding the effect of water on the transient decomposition of zinc dialkyldithiophosphate (ZDDP). <i>Tribology International</i> , 2021, 157, 106855.	5.9	7
6	An Assessment of the Effect of Relative Humidity on the Decomposition of the ZDDP Antiwear Additive. <i>Tribology Letters</i> , 2021, 69, 1.	2.6	7
7	Tribochemistry evolution of DDP tribofilms over time using in-situ synchrotron XAS. <i>Tribology International</i> , 2021, 160, 107026.	5.9	3
8	An Assessment of Quantitative Predictions of Deterministic Mixed Lubrication Solvers. <i>Journal of Tribology</i> , 2021, 143, .	1.9	11
9	Effect of ionic liquidsâ€™ chemistry on their lubrication behaviour under various contact pressures. <i>Tribology International</i> , 2020, 151, 106465.	5.9	5
10	Understanding the role of surface textures in improving the performance of boundary additives, part II: Numerical simulations. <i>Tribology International</i> , 2020, 152, 106252.	5.9	6
11	Single-asperity study of the reaction kinetics of P-based triboreactive films. <i>Tribology International</i> , 2019, 133, 288-296.	5.9	31
12	The mutual interaction between tribochemistry and lubrication: Interfacial mechanics of tribofilm. <i>Tribology International</i> , 2019, 135, 161-169.	5.9	17
13	Reactivity of oil-soluble IL with silicon surface at elevated temperature. <i>Lubrication Science</i> , 2019, 31, 151-162.	2.1	1
14	A simple deterministic plastoelastohydrodynamic lubrication (PEHL) model in mixed lubrication. <i>Tribology International</i> , 2019, 131, 520-529.	5.9	26
15	3D tribo-nanoprinting using triboreactive materials. <i>Nanotechnology</i> , 2019, 30, 095302.	2.6	6
16	<i>In situ</i> synchrotron XAS study of the decomposition kinetics of ZDDP triboreactive interfaces. <i>RSC Advances</i> , 2018, 8, 34168-34181.	3.6	24
17	On the Transient Decomposition and Reaction Kinetics of Zinc Dialkyldithiophosphate. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44803-44814.	8.0	32
18	Tribochemistry and Morphology of P-Based Antiwear Films. <i>Microtechnology and MEMS</i> , 2018, , 159-214.	0.2	2

#	ARTICLE	IF	CITATIONS
19	An <i>in situ</i> synchrotron XAS methodology for surface analysis under high temperature, pressure, and shear. Review of Scientific Instruments, 2017, 88, 015101.	1.3	20