

Abdel Dorgham

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1973673/publications.pdf>

Version: 2024-02-01

19
papers

217
citations

1307594

7
h-index

1058476

14
g-index

19
all docs

19
docs citations

19
times ranked

162
citing authors

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

#	ARTICLE	IF	CITATIONS
19	Reactivity of oil-soluble IL with silicon surface at elevated temperature. Lubrication Science, 2019, 31, 151-162.	2.1	1