

Frank Bauer

List of Publications by Year in descending order

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26
papers

133
citations

1478505

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1372567

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27
all docs

27
docs citations

27
times ranked

83
citing authors

#	ARTICLE	IF	CITATIONS
1	Three-dimensional structure-based approach for the analysis of macroscopic lead structures on sealing counterfaces. International Journal of Metrology and Quality Engineering, 2022, 13, 2.	1.0	2
2	An Empirical Study on the Friction of Reciprocating Rod Seals at Predefined Lubrication Conditions and Shear Rates. Lubricants, 2022, 10, 56.	2.9	4
3	The sealing mechanism of radial lip seals: A numerical study of the tangential distortion of the sealing edge. , 2022, 1, 1-10.		2
4	Rotary Shaft Seals: Correlation of Wear Formation at the Sealing Edge and Shaft under Various Operating Conditions. Tribology Transactions, 2022, 65, 839-853.	2.0	1
5	Federvorgespannte-Elastomer-Radial-Wellendichtungen. , 2021, , .		10
6	Analysis of Fluid Flow in the Sealing Gap of Radial Shaft Seals and Elastic Deformation of the Sealing Surface. Journal of Tribology, 2021, 143, .	1.9	2
7	Swelling Behaviour of Static Seals in Redox Flow Batteries. Tribology Online, 2021, 16, 138-145.	0.9	0
8	Wear on radial lip seals: a numerical study of the influence on the sealing mechanism. Wear, 2021, 476, 203674.	3.1	16
9	How different lubricants affect the wear of steel counterfaces in radial lip sealing systems. Wear, 2021, 477, 203897.	3.1	4
10	Remarks on Modeling the Oil Film Generation of Rod Seals. Lubricants, 2021, 9, 95.	2.9	4
11	How to measure the radial load of radial lip seals. Tribologie Und Schmierungstechnik, 2021, 68, 5-12.	0.1	2
12	Oil film generation of a hydraulic rod seal: an experimental study using ellipsometry. Tribology International, 2021, 162, 107102.	5.9	7
13	Test and evaluation method for greases in grease-sealing rotary shaft seals. Tribologie Und Schmierungstechnik, 2021, 68, 24-31.	0.1	0
14	Rheological Characterization and EHL Simulation of a Grease in a Lubricated Sealing Contact. Tribologie Und Schmierungstechnik, 2021, 68, 20-28.	0.1	0
15	On the Estimation of the Dynamic Leak-Tightness of Shaft Seals with Hydrodynamic Sealing Aids through a Hydrodynamic Parameter. Tribology Online, 2019, 14, 359-366.	0.9	1
16	Description of the Pumping Rate of Shaft Counterfaces in the Sealing System Radial Lip Seal Using the 3D Parameters of ISO 25178. Tribology Online, 2016, 11, 69-74.	0.9	2
17	Progress in passive submillimeter-wave video imaging. Proceedings of SPIE, 2014, , .	0.8	11
18	Experimental Study on the Sealing Mechanism of Bidirectional PTFE Lip Seals. Tribology Transactions, 2014, 57, 866-870.	2.0	5

#	ARTICLE	IF	CITATIONS
19	How to measure lead in sealing technology?. Sealing Technology, 2013, 2013, 8-12.	0.0	7
20	PTFE lip seals â€“ design guidelines for bidirectional sealing aids. Sealing Technology, 2013, 2013, 7-8.	0.0	3
21	Development of passive submillimeter-wave video imaging systems for security applications. Proceedings of SPIE, 2012, , .	0.8	6
22	â€œJESSY DEEPâ€ Jena SQUID systems for deep earth exploration. , 2010, , .		4
23	Passive Submillimeter-wave Stand-off Video Camera for Security Applications. Journal of Infrared, Millimeter, and Terahertz Waves, 2010, 31, 1355-1369.	2.2	27
24	A New Approach to Analyze the Hydrodynamic Flow in Sealing Aidsâ€”PTFE-Lip Seals with Spiral Grooves. Tribology Transactions, 2007, 50, 435-443.	2.0	11
25	A Near-Frictionless Sealing Approach with Innovative, Gas-Lubricated Shaft Seals Made of Elastomer. Tribology Transactions, 0, , 1-13.	2.0	1
26	Approach to the Description of Macro Lead Formation by Means of a Kinematics Simulation Model. Tribology Transactions, 0, , 1-13.	2.0	1