Weifeng Huang

List of Publications by Year
in descending order

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Version: 2024-02-01

44	605	567281 15	677142 22
papers	citations	h-index	g-index

44	44	44	261
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Experimental study of two-phase mechanical face Seals with laser surface texturing. Tribology International, 2014, 72, 90-97.	5.9	71
2	Continuous separating method for characterizing and reconstructing bi-Gaussian stratified surfaces. Tribology International, 2016, 102, 454-462.	5.9	38
3	An Acoustic Emission Study on the Starting and Stopping Processes of a Dry Gas Seal for Pumps. Tribology Letters, 2013, 49, 379-384.	2.6	31
4	Face Rub-Impact Monitoring of a Dry Gas Seal Using Acoustic Emission. Tribology Letters, 2013, 52, 253-259.	2.6	25
5	Stratified effect of continuous bi-Gaussian rough surface on lubrication and asperity contact. Tribology International, 2016, 104, 328-341.	5.9	25
6	The bi-Gaussian theory to understand sliding wear and friction. Tribology International, 2017, 114, 186-191.	5.9	25
7	Bi-Gaussian surface identification and reconstruction with revised autocorrelation functions. Tribology International, 2017, 110, 185-194.	5.9	25
8	Truncated separation method for characterizing and reconstructing bi-Gaussian stratified surfaces. Friction, 2017, 5, 32-44.	6.4	20
9	Effect of disturbances on the dynamic performance of a wavy-tilt-dam mechanical seal. Tribology International, 2013, 64, 63-68.	5.9	19
10	Bi-Gaussian stratified effect of rough surfaces on acoustic emission under a dry sliding friction. Tribology International, 2018, 119, 308-315.	5.9	19
11	3D-Printed Topological MoS₂/MoSe₂ Heterostructures for Macroscale Superlubricity. ACS Applied Materials & Interfaces, 2021, 13, 34984-34995.	8.0	17
12	Influence analysis of secondary O-ring seals in dynamic behavior of spiral groove gas face seals. Chinese Journal of Mechanical Engineering (English Edition), 2016, 29, 507-514.	3.7	16
13	Stratified Revised Asperity Contact Model for Worn Surfaces. Journal of Tribology, 2017, 139, .	1.9	16
14	Multi-Gaussian Stratified Modeling and Characterization of Multi-process Surfaces. Tribology Letters, 2018, 66, 1.	2.6	16
15	Evolution of bi-Gaussian surface parameters of silicon-carbide and carbon-graphite discs in a dry sliding wear process. Tribology International, 2017, 112, 75-85.	5.9	15
16	Fluid-solid strong-interaction model of mechanical seals in reactor coolant pumps. Science China Technological Sciences, 2011, 54, 2339-2348.	4.0	14
17	Three-Dimensional Flowâ€“Heat Coupling Model of a Wavy-Tilt-Dam Mechanical Seal. Tribology Transactions, 2013, 56, 1146-1155.	2.0	14
18	Bi-fractal feature of bi-Gaussian stratified surfaces. Tribology International, 2019, 134, 427-434.	5.9	14

#	Article	IF	Citations
19	Gas face seal status estimation based on acoustic emission monitoring and support vector machine regression. Advances in Mechanical Engineering, 2020, 12, 168781402092132.	1.6	14
20	Evolution of bi-Gaussian surface parameters and sealing performance for a gas face seal under a low-speed condition. Tribology International, 2018, 120, 317-329.	5.9	13
21	Phase-field-based lattice Boltzmann model for liquid-gas-solid flow. Physical Review E, 2019, 100, 033314.	2.1	13
22	Mechanism of bi-Gaussian surface topographies on generating acoustic emissions under a sliding friction. Tribology International, 2019, 131, 64-72.	5.9	13
23	A Homogeneous Phase Change Model for Two-Phase Mechanical Seals With Three-Dimensional Face Structures. Journal of Tribology, 2014, 136, .	1.9	12
24	State Evolution of Dry Gas Seal during Repeated Startâ€“Stop Operation Using Acoustic Emission Method. Tribology Transactions, 2020, 63, 173-181.	2.0	12
25	Lattice Boltzmann model for ternary fluids with solid particles. Physical Review E, 2020, 101, 033307.	2.1	12
26	Probe model of wear degree under sliding wear by Rk parameter set. Tribology International, 2017, 109, 578-585.	5.9	12
27	Analysis of the Dynamic Friction of a Gas Face Seal Based on Acoustic Emissions. Tribology Letters, 2018, 66, 1.	2.6	11
28	Bi-Gaussian Stratified Wetting Model on Rough Surfaces. Langmuir, 2019, 35, 5967-5974.	3.5	10
29	Three-Dimensional Printed Surfaces Inspired by Bi-Gaussian Stratified Plateaus. ACS Applied Materials & Interfaces, 2019, 11, 20528-20534.	8.0	8
30	Stability and tracking analysis of gas face seals under low-parameter conditions considering slip flow. Journal of Vibroengineering, 2017, 19, 2126-2141.	1.0	8
31	Lattice Boltzmann model for dense suspended particles based on improved bounce-back method. Computers and Mathematics With Applications, 2020, 80, 552-567.	2.7	7
32	A closed-form contact model for gas face seals during the opened operation. Industrial Lubrication and Tribology, 2018, 70, 1110-1118.	1.3	6
33	Characterization and simulation of bi-Gaussian surfaces induced by material transfer and additive processes. Tribology International, 2019, 136, 31-44.	5.9	6
34	Bi-Gaussian stratified theory to understand wettability on rough topographies. Surface and Coatings Technology, 2019, 367, 271-277.	4.8	5
35	Lattice Boltzmann simulations of magnetic particles in a three-dimensional microchannel. Powder Technology, 2020, 373, 555-568.	4.2	5
36	A Semi-Analytical Model of Spiral-Groove Face Seals: Correction and Extension. Tribology Transactions, 2016, 59, 971-982.	2.0	3

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37	Interactions of Oil Drops Induced by the Lateral Capillary Force and Surface Tension Gradients. Langmuir, 2019, 35, 14967-14973.	3.5	3
38	A Bi-Gaussian Acoustic Emission Model for Sliding Friction. IOP Conference Series: Materials Science and Engineering, 2019, 686, 012026.	0.6	3
39	Numerical study on tribological performance of the floating valve-plate pair in axial piston pump. Advances in Mechanical Engineering, 2020, 12, 168781402096832.	1.6	3
40	Discriminative Features of Abnormities in a Spiral Groove Gas Face Seal Based on Dynamic Model Considering Contact. Chinese Journal of Mechanical Engineering (English Edition), 2022, 35, .	3.7	3
41	Contact status between seal ring and its support: crucial factor in hydrostatic mechanical face seal. Industrial Lubrication and Tribology, 2019, 71, 885-892.	1.3	2
42	Adaptive Analysis for Acoustic Emissions Generated from a Gas Face Seal. , 2019, , .		1
43	PROCESSING METHODS AND PREDICTIVE MODEL FOR WAVY-TILT-DAM MECHANICAL SEAL. , 0, , .		0
44	Fiber reinforced SiC ceramic helical spring for high elasticity and large deformation at high temperature. International Journal of Applied Ceramic Technology, 2022, 19, 1583-1593.	2.1	0