Koshiro Mizobe

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/4389027/publications.pdf

Version: 2024-02-01

80 papers	291 citations	1684129 5 h-index	1474186 9 g-index
80 all docs	80 docs citations	80 times ranked	116 citing authors

#	Article	IF	Citations
1	Wear of hybrid radial bearings (PEEK ring-PTFE retainer and alumina balls) under dry rolling contact. Tribology International, 2015, 90, 77-83.	5.9	34
2	Relationship between Load, Rotation Speed and, Strength in All - PEEK and PEEK Race â€“ PTFE Retainer Hybrid Polymer Bearings under Dry Rolling Contact Fatigue. Advanced Materials Research, 0, 567, 66-70.	0.3	20
3	Observation of Crack Propagation in PEEK Polymer Bearings under Water-Lubricated Conditions. Advanced Materials Research, 0, 566, 109-114.	0.3	18
4	Observation of non-metallic inclusions on repeatedly quenched SAE 52100 bearing steel fracture surfaces. International Journal of Materials and Product Technology, 2012, 44, 227.	0.2	14
5	Effect of Thrust Load and Rotation Speed on Wear Loss in PPS Race - PTFE Retainer Hybrid Polymer Thrust Bearings under Dry Contact. Advanced Materials Research, 2012, 566, 157-161.	0.3	13
6	Relationship between repeatedly quenching and fisheye cracks around TiN and Al2O3 inclusions in high carbon bearing steel. Materials Research Innovations, 2014, 18, S1-60-S1-65.	2.3	11
7	Effect of PTFE Retainer on Friction Coefficient in Polymer Thrust Bearings under Dry Contact. Advanced Materials Research, 0, 683, 90-93.	0.3	10
8	Homology analysis of structures of high carbon bearing steel: effect of repeated quenching on prior austenite grain size. Materials Research Innovations, 2014, 18, S1-33-S1-37.	2.3	9
9	Observation of Wear on PEEK-PTFE Hybrid Radial Bearings. Advanced Materials Research, 0, 683, 385-390.	0.3	8
10	Effect of Twice Quenching on Prior Austenite Grains and Rotating Bending Fatigue Cracks in SUJ2 Steel. Applied Mechanics and Materials, 0, 620, 443-448.	0.2	7
11	Homology Analysis of Prior Austenite Grain Size of SAE52100 Bearing Steel Processed by Cyclic Heat Treatment. Advanced Materials Research, 2013, 813, 116-119.	0.3	6
12	Effect of Repeated Quenching on the Rotating Bending Strength of SAE52100 Bearing Steel. Advanced Materials Research, 2012, 457-458, 1025-1031.	0.3	5
13	Observation of Corrosion Resistance of 13Cr-2Ni-2Mo Stainless Steel Quenched by Induction Heating. Applied Mechanics and Materials, 0, 597, 140-143.	0.2	5
14	Effect of Groove Geometry on Rolling Contact Fatigue of PEEK Thrust Bearings in Water. Materials Science Forum, 0, 878, 117-121.	0.3	5
15	Observation of Fracture Surface of Induction-Heated JIS SUJ2 Bearing Steel under Rotating Bending Fatigue. Materials Science Forum, 0, 904, 24-28.	0.3	5
16	PEEK/graphite film formation on microgrooves of PEEK- hybrid radial Al2O3 ball bearings under rolling contact in dry condition. Tribology International, 2022, 172, 107583.	5.9	5
17	Fourier Transform Infrared Spectroscopy for Wear Debris Adhesion on PEEK Bearing Surface. Applied Mechanics and Materials, 0, 307, 372-376.	0.2	4
18	Influence of Repeated Quenching on Bearing Steel Martensitic Structure Investigated by Homology. Applied Mechanics and Materials, 2013, 372, 270-272.	0.2	4

#	Article	IF	Citations
19	Homology Estimate of Grain Size Measurement Based on the JIS Samples. Advanced Materials Research, 0, 813, 120-123.	0.3	4
20	Observation of Cracks of PEEK Polymer Thrust Bearings under Rolling Contact Fatigue in Water. Key Engineering Materials, 0, 703, 172-177.	0.4	4
21	Effect of New Pocket Design on the Failure of Thrust UHMWPE Bearings in Dry Condition. Key Engineering Materials, 2016, 703, 192-196.	0.4	4
22	Rolling Contact Fatigue Observation of Radial PPS Bearings under Dry Condition. Key Engineering Materials, 0, 703, 197-201.	0.4	4
23	Effect of plastic deformation on magnetic fields around fatigue crack tips of carbon tool steel (JIS,) Tj ETQq1 1 0.784314 rgBT /Overlock	5.7	4
24	Fatigue of Low Carbon Alloy Steel (JIS S45C) and a New Method of Fracture Surface Analysis. Materials Science Forum, 2017, 893, 181-185.	0.3	4
25	Investigation of subsurface fatigue crack in PEEK shaft under one-point rolling contact by using 2.5D layer observation method. MATEC Web of Conferences, 2017, 130, 09001.	0.2	4
26	Failure Observation of 3D-Printed Thrust Bearing Specimens at Cross Section Observations in Dry Conditions. Key Engineering Materials, 0, 777, 446-450.	0.4	4
27	Friction Coefficient and Wear of PEEK-PTFE Hybrid Radial Ball Bearings under Dry Conditions. Materials Science Forum, 0, 1020, 114-119.	0.3	4
28	The Quantization of the Structure of Fisheyes via Homology Method. Applied Mechanics and Materials, 2013, 307, 409-414.	0.2	3
29	Quantitative Estimates of Repeatedly Quenched High Carbon Bearing Steel. Applied Mechanics and Materials, 0, 372, 273-276.	0.2	3
30	Influence of Repeated Quenching-Tempering on Fisheye Cracks around Tin and Al₂O₃ Inclusions in SAE 52100 Steel. Applied Mechanics and Materials, 0, 300-301, 1298-1303.	0.2	3
31	Comparison of Wear on PEEK-PTFE and PPS-PTFE Radial Bearings under Rolling Contact Fatigue. Applied Mechanics and Materials, 0, 372, 503-506.	0.2	3
32	The Betti Number of Prior Austenite Structure of Repeated Quenching Bearing Steels (JIS, SUJ2). Advanced Materials Research, 0, 1082, 191-196.	0.3	3
33	Observation of rolling contact fatigue of induction heated 13Crâ€“2Niâ€“2Mo stainless steel under reciprocating motion. Materials Research Innovations, 2014, 18, S5-52-S5-56.	2.3	3
34	Observation of fracture behavior of 3-D printed specimens under rolling contact fatigue in water. MATEC Web of Conferences, 2017, 130, 09004.	0.2	3
35	Observation of Tribological Fatigue Fracture on PEEK Shaft with Artificial Defect under One-Point Rolling Contact by Using 2.5D Layer Method. Key Engineering Materials, 2019, 814, 314-319.	0.4	3
36	Development of Fracture Surface Etching (FSE) Method around Non-Metallic Inclusion of SUJ2 Steel. Materials Science Forum, 0, 971, 65-69.	0.3	3

#	Article	IF	Citations
37	Observation of Cracks Originating from Transition Area in Induction-Heated S45C Shaft under Rotating Bending Fatigue. Key Engineering Materials, 2020, 832, 3-9.	0.4	3
38	Effects of Hydrogen Concentration, Specimen Thickness, Loading Frequency and Temperature on the Hydrogen Enhanced Crack Propagation of Low Alloy Steel. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 1204-1213.	0.2	2
39	Microstructure and Rolling Contact Fatigue Strength of Induction Heated AISI 52100 Bearings. Advanced Materials Research, 0, 566, 288-292.	0.3	2
40	Observation of Fisheye Cracks around TiN and Al₂O₃ Inclusions in Repeatedly Quenched High Carbon Bearing Steel. Advanced Materials Research, 0, 566, 150-156.	0.3	2
41	Effect of Rotation Speeds on Friction Coefficients of PPS Race-PTFE Retainer Hybrid Polymer Thrust Bearings under Dry Contact. Applied Mechanics and Materials, 2013, 418, 205-208.	0.2	2
42	Relation between the Betti Number of Fatigue Fracture Surfaces and Stress Intensity Factors of Low Carbon Steel (JIS, S45C). Advanced Materials Research, 2015, 1102, 59-63.	0.3	2
43	Evaluation of Tribological Thermal Failure on PEEK-PTFE Hybrid Alumina Ball Bearings. Materials Science Forum, 2016, 878, 142-147.	0.3	2
44	Effect of Repeated Quenching on Rolling Contact Fatigue Properties of JIS SUJ2 Bearing Steel. Materials Science Forum, 0, 867, 60-65.	0.3	2
45	Observation of Fatigue Fracture on PEEK Shaft against Alumina Bearingâ€™s Ball under One-Point Rolling Contact. Materials Science Forum, 2016, 878, 137-141.	0.3	2
46	Image analyzing method to detect vague boundaries by using reactionâ€“diffusion system. Applied Numerical Mathematics, 2017, 114, 124-131.	2.1	2
47	Effect of observation position of SUJ2 bar specimens on inclusions distribution. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012046.	0.6	2
48	Evaluation of rolling contact fatigue of induction heated 13Cr-2Ni-2Mo Stainless steel bar with Si3N4-ball. IOP Conference Series: Materials Science and Engineering, 2018, 324, 012064.	0.6	2
49	Characterization of Crack Growth Behavior of Carburized SCM415 Steel under Cyclic Rotating Bending. Solid State Phenomena, 2019, 298, 13-18.	0.3	2
50	Observation of Tribological Wear on PEEK Shaft with Artificial Defect under Radial Rolling Sliding Point Contact. Key Engineering Materials, 2020, 858, 95-100.	0.4	2
51	Study on Crack Opening Displacement and Hydrogen Enhanced Cruck Propagation of Low Alloy Steel. Nihon Kikai Gakkai Ronbunshu, A Hen/Transactions of the Japan Society of Mechanical Engineers, Part A, 2010, 76, 594-601.	0.2	1
52	Behavior of Short Fatigue Crack at Notch Root. Key Engineering Materials, 0, 465, 515-518.	0.4	1
53	Relationship between Life, Load and Rotation Speed of UHMWPE Bearing under Dry Rolling Contact Fatigue. Advanced Materials Research, 0, 683, 77-81.	0.3	1
54	Influence of Thrice-Induction-Heating and Once-Quenching on Fatigue Strength of SAE52100 Steel. Advanced Materials Research, 2014, 893, 415-418.	0.3	1

#	Article	IF	Citations
55	Wear Track Observation on Induction-Heated 13Cr-2Ni-2Mo Stainless Steel under Cyclic Reciprocating Motion. Applied Mechanics and Materials, 0, 563, 71-75.	0.2	1
56	Relationship between Solid Lubricant Layer and Friction Coefficient of PPS Races-PTFE Retainer Hybrid Thrust Bearings under Dry Condition. Advanced Materials Research, 2015, 1102, 129-134.	0.3	1
57	Observation of Furnace-Induction Quenched Microstructure in High Carbon High Chromium Steel. Materials Science Forum, 2017, 904, 36-39.	0.3	1
58	Distribution of Aspect Ratio of Fatigue Crack at Notch Root Depending on Crack Initiation Point of Annealed Steel, JIS S45C. Materials Science Forum, 0, 893, 240-244.	0.3	1
59	Investigation of wear, groove shape and load capacity of PPS-PTFE hybrid radial ball bearings. MATEC Web of Conferences, 2017, 130, 09002.	0.2	1
60	Influence of repeated quenching-tempering on spheroidized carbide area in JIS SUJ2 bearing steel. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012045.	0.6	1
61	Rolling Contact Fatigue Life of 13Cr-2Ni-2Mo Stainless Steels which are Surface Treated by Induction Heating (IH) and Wide Peening Cleaning (WPC). Key Engineering Materials, 2018, 777, 366-371.	0.4	1
62	Flaking of PEEK under one-point rolling contact fatigue using Al₂O₃ ball. MATEC Web of Conferences, 2019, 264, 01004.	0.2	1
63	Influence of groove shape on rolling contact fatigue of PEEK-PTFE hybrid radial bearings in dry conditions. MATEC Web of Conferences, 2019, 264, 01005.	0.2	1
64	Failure Observation of 3D-Printed Thrust Bearing Specimens with Inner Defects in Water Conditions. Key Engineering Materials, 2019, 814, 224-228.	0.4	1
65	Surface Observation of Induction-Heated 13Cr-2Ni-2Mo Stainless Steel after Interrupted Fatigue Testing under Rolling Contact Stress in Water. Solid State Phenomena, 0, 315, 72-76.	0.3	1
66	Observation of Crack Originating from Non-Metallic Inclusions in Furnace-Induction Heated SUJ2 Steel under One-Point Rolling Contact Fatigue at High Contact Pressure. Materials Science Forum, 0, 1033, 3-7.	0.3	1
67	Effects of Hydrogen Concentration, Specimen Thickness and Loading Frequency on the Hydrogen Enhanced Crack Propagation of Low Alloy Steel. Key Engineering Materials, 0, 465, 519-522.	0.4	0
68	Comparison between the RCF Performance of TiN- and TiO₂-Laser Coated Ti64 Bearings. Advanced Materials Research, 0, 566, 308-312.	0.3	0
69	Crack Initiation Observation in Early Stage of Rolling Contact Fatigue of SUJ2 Using a Single-Ball Apparatus. Applied Mechanics and Materials, 0, 620, 421-424.	0.2	0
70	Application of the Betti Number to Prior Austenite Grain Size Analysis of Repeatedly Quenched Steel Based on the Homology Method. Advanced Materials Research, 0, 1102, 45-49.	0.3	0
71	Backlash Evaluation of Hybrid UHMWPE-PEEK Bushes in a Small Robot Joint System. Key Engineering Materials, 0, 703, 187-191.	0.4	0
72	Observation of Retained Austenite Amount of Repeatedly Induction Heated SUJ2 Bearing Steels. Materials Science Forum, 2016, 867, 55-59.	0.3	0

#	Article	IF	Citations
73	Influence of Furnace-Induction Heating on Hardness Distribution and Retained Austenite in JIS SUJ2 Bearing Steel. Key Engineering Materials, 0, 792, 30-34.	0.4	0
74	Influence of the depth of heat affected zone on the fatigue strength and fracture surface in induction heated JIS SUJ2 bearing steel. IOP Conference Series: Materials Science and Engineering, 2018, 324, 012065.	0.6	0
75	Observation of Subsurface Crack of Carburized Steel (SCM415) under Single-Ball Rolling Contact Fatigue over 10⁷ Cycles. Solid State Phenomena, 0, 298, 19-23.	0.3	0
76	Effect of Lamination Direction on the AE Behavior of 3D Printed Specimen during Tensile Testing. Key Engineering Materials, 2020, 858, 84-88.	0.4	0
77	Crack Growth Evaluation of Induction Quenched JIS-S45C Steel Based on Stress Intensity Factor Simulation. Materials Science Forum, 0, 1020, 126-130.	0.3	0
78	Image Evaluation of Distribution of Carbide Particles in Repeatedly Quenched (Two and Three Times) JIS-SUJ2 Steels. Solid State Phenomena, 0, 315, 66-71.	0.3	0
79	Influence on Tribological Behavior of PEEK Composite Film Layer on PEEK-PTFE Bearings with Artificial Defect in Dry Condition. Key Engineering Materials, 0, 904, 243-249.	0.4	0
80	Evaluation of Hardness Distributions around Fracture Surface in Induction-Heated SUJ2 Steel after Rotating Bending Fatigue Test. Solid State Phenomena, 0, 331, 61-65.	0.3	0