Koshiro Mizobe

List of Publications by Year
in descending order

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		1874746	1637695
80	291	5	9
papers	citations	h-index	g-index

80	80	80	122
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	PEEK/graphite film formation on microgrooves of PEEK- hybrid radial Al2O3 ball bearings under rolling contact in dry condition. Tribology International, 2022, 172, 107583.	3.0	5
2	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
3	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
4	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
5	Flaking of PEEK under one-point rolling contact fatigue using Al₂O₃ ball. MATEC Web of Conferences, 2019, 264, 01004.	0.1	1
6	Influence of groove shape on rolling contact fatigue of PEEK-PTFE hybrid radial bearings in dry conditions. MATEC Web of Conferences, 2019, 264, 01005.	0.1	1
7	Failure Observation of 3D-Printed Thrust Bearing Specimens with Inner Defects in Water Conditions. Key Engineering Materials, 2019, 814, 224-228.	0.4	1
8	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
9	Characterization of Crack Growth Behavior of Carburized SCM415 Steel under Cyclic Rotating Bending. Solid State Phenomena, 2019, 298, 13-18.	0.3	2
10	Influence of repeated quenching-tempering on spheroidized carbide area in JIS SUJ2 bearing steel. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012045.	0.3	1
11	Effect of observation position of SUJ2 bar specimens on inclusions distribution. IOP Conference Series: Materials Science and Engineering, 2018, 307, 012046.	0.3	2
12	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
13	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.	0.3	0
14	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.	0.3	2
15	Image analyzing method to detect vague boundaries by using reactionâ€“diffusion system. Applied Numerical Mathematics, 2017, 114, 124-131.	1.2	2
16	Observation of Furnace-Induction Quenched Microstructure in High Carbon High Chromium Steel. Materials Science Forum, 2017, 904, 36-39.	0.3	1
17	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
18	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.	0.1	4

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19	Investigation of wear, groove shape and load capacity of PPS-PTFE hybrid radial ball bearings. MATEC Web of Conferences, 2017, 130, 09002.	0.1	1
20	Observation of fracture behavior of 3-D printed specimens under rolling contact fatigue in water. MATEC Web of Conferences, 2017, 130, 09004.	0.1	3
21	Evaluation of Tribological Thermal Failure on PEEK-PTFE Hybrid Alumina Ball Bearings. Materials Science Forum, 2016, 878, 142-147.	0.3	2
22	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
23	Observation of Retained Austenite Amount of Repeatedly Induction Heated SUJ2 Bearing Steels. Materials Science Forum, 2016, 867, 55-59.	0.3	0
24	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
25	Effect of plastic deformation on magnetic fields around fatigue crack tips of carbon tool steel (JIS,) Tj ETQq1 1 0.784314 rgBT /Overlo	2.8	4
26	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
27	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
28	Wear of hybrid radial bearings (PEEK ring-PTFE retainer and alumina balls) under dry rolling contact. Tribology International, 2015, 90, 77-83.	3.0	34
29	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.	1.0	9
30	Influence of Thrice-Induction-Heating and Once-Quenching on Fatigue Strength of SAE52100 Steel. Advanced Materials Research, 2014, 893, 415-418.	0.3	1
31	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.	1.0	3
32	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.	1.0	11
33	The Quantization of the Structure of Fisheyes via Homology Method. Applied Mechanics and Materials, 2013, 307, 409-414.	0.2	3
34	Influence of Repeated Quenching on Bearing Steel Martensitic Structure Investigated by Homology. Applied Mechanics and Materials, 2013, 372, 270-272.	0.2	4
35	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
36	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

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37	Effect of Repeated Quenching on the Rotating Bending Strength of SAE52100 Bearing Steel. Advanced Materials Research, 2012, 457-458, 1025-1031.	0.3	5
38	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
39	Observation of non-metallic inclusions on repeatedly quenched SAE 52100 bearing steel fracture surfaces. International Journal of Materials and Product Technology, 2012, 44, 227.	0.1	14
40	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
41	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
42	Behavior of Short Fatigue Crack at Notch Root. Key Engineering Materials, 0, 465, 515-518.	0.4	1
43	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
44	Observation of Crack Propagation in PEEK Polymer Bearings under Water-Lubricated Conditions. Advanced Materials Research, 0, 566, 109-114.	0.3	18
45	Microstructure and Rolling Contact Fatigue Strength of Induction Heated AISI 52100 Bearings. Advanced Materials Research, 0, 566, 288-292.	0.3	2
46	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
47	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
48	Comparison between the RCF Performance of TiN- and TiO₂-Laser Coated Ti64 Bearings. Advanced Materials Research, 0, 566, 308-312.	0.3	0
49	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
50	Quantitative Estimates of Repeatedly Quenched High Carbon Bearing Steel. Applied Mechanics and Materials, 0, 372, 273-276.	0.2	3
51	Fourier Transform Infrared Spectroscopy for Wear Debris Adhesion on PEEK Bearing Surface. Applied Mechanics and Materials, 0, 307, 372-376.	0.2	4
52	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
53	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
54	Homology Estimate of Grain Size Measurement Based on the JIS Samples. Advanced Materials Research, 0, 813, 120-123.	0.3	4

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55	Effect of PTFE Retainer on Friction Coefficient in Polymer Thrust Bearings under Dry Contact. Advanced Materials Research, 0, 683, 90-93.	0.3	10
56	Observation of Wear on PEEK-PTFE Hybrid Radial Bearings. Advanced Materials Research, 0, 683, 385-390.	0.3	8
57	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
58	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
59	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
60	The Betti Number of Prior Austenite Structure of Repeated Quenching Bearing Steels (JIS, SUJ2). Advanced Materials Research, 0, 1082, 191-196.	0.3	3
61	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
62	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
63	Observation of Cracks of PEEK Polymer Thrust Bearings under Rolling Contact Fatigue in Water. Key Engineering Materials, 0, 703, 172-177.	0.4	4
64	Backlash Evaluation of Hybrid UHMWPE-PEEK Bushes in a Small Robot Joint System. Key Engineering Materials, 0, 703, 187-191.	0.4	0
65	Effect of Repeated Quenching on Rolling Contact Fatigue Properties of JIS SUJ2 Bearing Steel. Materials Science Forum, 0, 867, 60-65.	0.3	2
66	Effect of Groove Geometry on Rolling Contact Fatigue of PEEK Thrust Bearings in Water. Materials Science Forum, 0, 878, 117-121.	0.3	5
67	Rolling Contact Fatigue Observation of Radial PPS Bearings under Dry Condition. Key Engineering Materials, 0, 703, 197-201.	0.4	4
68	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
69	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
70	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
71	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
72	Development of Fracture Surface Etching (FSE) Method around Non-Metallic Inclusion of SUJ2 Steel. Materials Science Forum, 0, 971, 65-69.	0.3	3

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73	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
74	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
75	Friction Coefficient and Wear of PEEK-PTFE Hybrid Radial Ball Bearings under Dry Conditions. Materials Science Forum, 0, 1020, 114-119.	0.3	4
76	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
77	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
78	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
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