Hitonobu Koike

List of Publications by Year
in descending order

56	441	1464605 7	1181555 14
papers	citations	h-index	g-index

56	56	56	238
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 Tribological Wear on PEEK Shaft with Artificial Defect under Radial Rolling Sliding Point Contact. Key Engineering Materials, 2020, 858, 95-100.	0.4	2
3	Flaking of PEEK under one-point rolling contact fatigue using Al₂O₃ ball. MATEC Web of Conferences, 2019, 264, 01004.	0.1	1
4	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
5	Increased fatigue strength of partially stabilised zirconia achieved by shot peening. Materials Science and Technology, 2017, 33, 623-628.	0.8	8
6	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
7	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
8	Evaluation of Tribological Thermal Failure on PEEK-PTFE Hybrid Alumina Ball Bearings. Materials Science Forum, 2016, 878, 142-147.	0.3	2
9	Increase in Strength of Partially Stabilized Zirconia After Shot Peening. Journal of Materials Engineering and Performance, 2015, 24, 3573-3578.	1.2	10
10	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
11	Measurement of fatigue and wear of PEEK bush and A7075 cam plate in humanoid robot joints. Materials Research Innovations, 2014, 18, S1-38-S1-43.	1.0	1
12	Influence of Thrice-Induction-Heating and Once-Quenching on Fatigue Strength of SAE52100 Steel. Advanced Materials Research, 2014, 893, 415-418.	0.3	1
13	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
14	Comparative evaluation of metal and polymer ball bearings. Wear, 2013, 302, 1499-1505.	1.5	20
15	Surface Profile Observation of PTFE Radial Bearings under Rolling-Contact-Fatigue in Water. Applied Mechanics and Materials, 2013, 307, 337-341.	0.2	2
16	Investigation of Crack Initiation and Propagation during Rolling Contact Fatigue of SUJ2 Steel Bearings Using a Newly Developed One-Point Testing Machine. Applied Mechanics and Materials, 2012, 152-154, 1233-1238.	0.2	2
17	Effect of Repeated Quenching on the Rotating Bending Strength of SAE52100 Bearing Steel. Advanced Materials Research, 2012, 457-458, 1025-1031.	0.3	5
18	Coating of Ti64 Bearings in Air by Using a Q-Sw Laser. Applied Mechanics and Materials, 2012, 152-154, 1239-1243.	0.2	1

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19	Influence of Wear and Backlash on Machined PEEK Polymer Bushes and 7075 Aluminium Alloy Cam Plates Used in Robot Joints. Applied Mechanics and Materials, 2012, 157-158, 1178-1185.	0.2	3
20	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
21	Wear Resistance Improvement of Titanium Bearings by Laser Gas Nitriding. Applied Mechanics and Materials, 2012, 152-154, 1227-1232.	0.2	1
22	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
23	Influence of Wear and Thermal Deformation on Machined PEEK Plastic Bush and Ti Crank Shaft. Polymers and Polymer Composites, 2012, 20, 117-122.	1.0	0
24	Fatigue Strength Improvement of AISI E52100 Bearing Steel by Induction Heating and Repeated Quenching. Materials Science, 2012, 47, 677-682.	0.3	22
25	Observation of magnetic flux density around fatigue crack tips in bearing steel using an SHPM with a three-dimensional small-gap probe. International Journal of Fatigue, 2012, 39, 38-43.	2.8	15
26	Self-lubrication of PEEK polymer bearings in rolling contact fatigue under radial loads. Tribology International, 2012, 49, 30-38.	3.0	67
27	Effects of Magnetizations on Three Dimensional Magnetic Flux Density of Pre-Cracked Medium Carbon Low Alloy Steel (JIS S45C). Applied Mechanics and Materials, 2011, 83, 230-236.	0.2	5
28	The Influence of Stress Ratio on Changes in Magnetic Flux Density around Fatigue Crack Tips of Carbon Tool Steel. Applied Mechanics and Materials, 2011, 83, 210-215.	0.2	7
29	Influence of Radial Load on PEEK Plastic Bearings Life Cycle. Advanced Materials Research, 2010, 154-155, 1288-1291.	0.3	10
30	Wear Resistance Improvement of Titanium Bearings by Laser Gas Nitriding. Advanced Materials Research, 0, 418-420, 1629-1634.	0.3	7
31	Effect of Repeated Induction Heating on Fatigue Crack Propagation in SAE 52100 Bearing Steel. Advanced Materials Research, 0, 217-218, 1266-1271.	0.3	32
32	Investigation of Crack Initiation and Propagation during Rolling Contact Fatigue of SUJ2 Steel Bearings Using a Newly Developed One-Point Testing Machine. Advanced Materials Research, 0, 418-420, 1613-1617.	0.3	5
33	Wear Resistance Improvement of Titanium Bearings by Laser Gas Nitriding. Advanced Materials Research, 0, 217-218, 988-993.	0.3	2
34	Rolling Contact Fatigue of Titanium Alloys Coated by Gas Nitriding Using a Q-Sw Laser. Applied Mechanics and Materials, 0, 83, 191-196.	0.2	0
35	Influence of Radial Load on PEEK Plastic Bearings Life Cycle under Water Lubricated Conditions. Advanced Materials Research, 0, 217-218, 1260-1265.	0.3	16
36	Coating of Ti64 Bearings in Air by Using a Q-Sw Laser. Advanced Materials Research, 0, 418-420, 393-397.	0.3	0

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37	Observations of Cracks from Microscopic Holes of PEEK Bearings under Rolling-Contact Fatigue in Water. Advanced Materials Research, 0, 566, 197-202.	0.3	10
38	Measurement of Joint Element Transmission Error in a Humanoid Walking Robot. Advanced Materials Research, 0, 566, 348-352.	0.3	4
39	Observation of Wear in PEEK Race - PTFE Retainer Hybrid Polymer Bearings under Dry Contact. Advanced Materials Research, 0, 457-458, 557-562.	0.3	1
40	Observation of Crack Propagation in PEEK Polymer Bearings under Water-Lubricated Conditions. Advanced Materials Research, 0, 566, 109-114.	0.3	18
41	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
42	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
43	Observation of Wear Surface between Pure PEEK and Counterpart Materials; Titanium and 7075 Aluminum Alloy, in Robot Joint. Applied Mechanics and Materials, 0, 307, 347-351.	0.2	7
44	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
45	Wear and Transmission Error between PEEK Bush and 7075 Aluminium Alloy Cam Plate Components in Robot Joints. Applied Mechanics and Materials, 0, 307, 3-8.	0.2	4
46	Change in Backlash of Humanoid Robot Joints under High Load. Applied Mechanics and Materials, 0, 372, 507-511.	0.2	0
47	Measurement of Backlash and Fatigue Wear of PEEK Bush in Robot Joint under Middle Load. Applied Mechanics and Materials, 0, 418, 38-43.	0.2	3
48	Fourier Transform Infrared Spectroscopy for Wear Debris Adhesion on PEEK Bearing Surface. Applied Mechanics and Materials, 0, 307, 372-376.	0.2	4
49	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
50	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
51	Influence of Load and Rotation Speed on Life of PPS Radial Bearings under Water Lubricant Conditions. Advanced Materials Research, 0, 683, 439-443.	0.3	8
52	Effect of PTFE Retainer on Friction Coefficient in Polymer Thrust Bearings under Dry Contact. Advanced Materials Research, 0, 683, 90-93.	0.3	10
53	Observation of Wear on PEEK-PTFE Hybrid Radial Bearings. Advanced Materials Research, 0, 683, 385-390.	0.3	8
54	Measurement of Sliding Wear of Shot-Peened Partially Stabilized Zirconia Plate. Applied Mechanics and Materials, 0, 597, 353-357.	0.2	3

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55	Backlash Evaluation of Hybrid UHMWPE-PEEK Bushes in a Small Robot Joint System. Key Engineering Materials, 0, 703, 187-191.	0.4	0
56	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