

Dae-Eun Kim

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163
papers

3,982
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33
h-index

55
g-index

166
ext. papers

4,522
ext. citations

5
avg, IF

5.83
L-index

#	Paper	IF	Citations
163	Non-volatile organic memory with sub-millimetre bending radius. <i>Nature Communications</i> , 2014 , 5, 3583	17.4	182
162	A review of recent applications of atmospheric pressure plasma jets for materials processing 2015 , 12, 225-235		163
161	Fretting wear and friction reduction of CP titanium and Ti6Al4V alloy by ultrasonic nanocrystalline surface modification. <i>Surface and Coatings Technology</i> , 2012 , 207, 135-142	4.4	157
160	Tribology of graphene: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 577-585	1.7	141
159	Friction and wear characteristics of multi-layer graphene films investigated by atomic force microscopy. <i>Surface and Coatings Technology</i> , 2011 , 205, 4864-4869	4.4	140
158	Characteristics of fracture during the approach process and wear mechanism of a silicon AFM tip. <i>Ultramicroscopy</i> , 2005 , 102, 161-71	3.1	113
157	Durability and degradation mechanism of graphene coatings deposited on Cu substrates under dry contact sliding. <i>Carbon</i> , 2013 , 54, 472-481	10.4	112
156	Effects of ultrasonic nanocrystalline surface modification on the tribological properties of AZ91D magnesium alloy. <i>Tribology International</i> , 2012 , 54, 106-113	4.9	108
155	Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic/Inorganic Perovskite. <i>Advanced Energy Materials</i> , 2015 , 5, 1501406	21.8	106
154	Tribology of multilayer coatings for wear reduction: A review. <i>Friction</i> , 2017 , 5, 248-262	5.6	86
153	Fundamental Investigation of Micro Wear Rate Using an Atomic Force Microscope. <i>Tribology Letters</i> , 2003 , 15, 135-144	2.8	79
152	Experimental investigation of frictional and viscoelastic properties of intestine for microendoscope application. <i>Tribology Letters</i> , 2006 , 22, 143-149	2.8	75
151	Investigation of the tribological behavior of octadecyltrichlorosilane deposited on silicon. <i>Wear</i> , 2001 , 251, 1169-1176	3.5	65
150	Water Lubrication of Stainless Steel using Reduced Graphene Oxide Coating. <i>Scientific Reports</i> , 2015 , 5, 17034	4.9	64
149	Nano-scale friction: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009 , 10, 141-151	1.7	62
148	Prognostic significance of a systemic inflammatory response in patients receiving first-line palliative chemotherapy for recurred or metastatic gastric cancer. <i>BMC Cancer</i> , 2011 , 11, 489	4.8	61
147	A highly flexible transparent conductive electrode based on nanomaterials. <i>NPG Asia Materials</i> , 2017 , 9, e438-e438	10.3	57

146	Nano-scale wear: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1709-1718	1.7	57
145	Micro/nano-tribological characteristics of self-assembled monolayer and its application in nano-structure fabrication. <i>Wear</i> , 2003 , 255, 808-818	3.5	56
144	Structural and tribological characteristics of poly(vinylidene fluoride)/functionalized graphene oxide nanocomposite thin films. <i>Composites Science and Technology</i> , 2014 , 90, 187-192	8.6	46
143	Docetaxel-loaded thermoresponsive conjugated linoleic acid-incorporated poloxamer hydrogel for the suppression of peritoneal metastasis of gastric cancer. <i>Biomaterials</i> , 2013 , 34, 1433-41	15.6	46
142	Multi-functional ceramic hybrid coatings on biodegradable AZ31 Mg implants: electrochemical, tribological and quantum chemical aspects for orthopaedic applications. <i>RSC Advances</i> , 2014 , 4, 24272	3.7	42
141	Tribological properties of nanostructured DLC coatings deposited by C60 ion beam. <i>Tribology International</i> , 2013 , 60, 127-135	4.9	42
140	Effect of surface topography on the frictional behavior at the micro/nano-scale. <i>Wear</i> , 2003 , 254, 1019-1031	3.1	41
139	Effect of Ag content on the microstructure, tribological and corrosion properties of amorphous carbon coatings on 316L SS. <i>Surface and Coatings Technology</i> , 2014 , 240, 128-136	4.4	40
138	Tribological properties, corrosion resistance and biocompatibility of magnetron sputtered titanium-amorphous carbon coatings. <i>Applied Surface Science</i> , 2016 , 371, 262-274	6.7	38
137	Wear characteristics of diamond-coated atomic force microscope probe. <i>Ultramicroscopy</i> , 2007 , 108, 1-10	3.1	37
136	Significant improvement in cell adhesion and wear resistance of biomedical β -type titanium alloy through ultrasonic nanocrystal surface modification. <i>Journal of Alloys and Compounds</i> , 2018 , 762, 941-949	5.7	36
135	Molecular dynamics simulation study of the nano-wear characteristics of alkanethiol self-assembled monolayers. <i>Applied Physics A: Materials Science and Processing</i> , 2005 , 81, 109-114	2.6	36
134	Nanostructured β -type titanium alloy fabricated by ultrasonic nanocrystal surface modification. <i>Ultrasonics Sonochemistry</i> , 2017 , 39, 698-706	8.9	35
133	Highly efficient perovskite solar cells based on mechanically durable molybdenum cathode. <i>Nano Energy</i> , 2015 , 17, 131-139	17.1	35
132	Sliding and rolling frictional behavior of a single ZnO nanowire during manipulation with an AFM. <i>Nanoscale</i> , 2013 , 5, 6081-7	7.7	33
131	Frictional behavior between silicon and steel coated with graphene oxide in dry sliding and water lubrication conditions. <i>International Journal of Precision Engineering and Manufacturing - Green Technology</i> , 2016 , 3, 91-97	3.8	33
130	Toward Zero Micro/Macro-Scale Wear Using Periodic Nano-Layered Coatings. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 18136-44	9.5	32
129	Effect of annealing temperature on the tribological behavior of ZnO films prepared by sol-gel method. <i>Thin Solid Films</i> , 2009 , 517, 1690-1700	2.2	32

128	Micro/nanomechanical properties of aluminum-doped zinc oxide films prepared by radio frequency magnetron sputtering. <i>Surface and Coatings Technology</i> , 2006 , 201, 2547-2552	4.4	32
127	Development of polyimide films reinforced with boron nitride and boron nitride nanosheets for transparent flexible device applications. <i>Nano Research</i> , 2018 , 11, 2366-2378	10	31
126	Mechanical and high temperature wear properties of extruded Al composite reinforced with Al ₁₃ Fe ₄ CMA nanoparticles. <i>Materials and Design</i> , 2016 , 90, 532-544	8.1	30
125	Improvement of the tribological properties of Al6061 alloy under dry sliding conditions. <i>Tribology International</i> , 2013 , 64, 24-32	4.9	29
124	Accelerated wear test of FKM elastomer for life prediction of seals. <i>Polymer Testing</i> , 2012 , 31, 993-1000	4.5	29
123	Elevated temperature wear behavior of thermally sprayed WC-Co/nanodiamond composite coatings. <i>Surface and Coatings Technology</i> , 2017 , 315, 283-293	4.4	28
122	Highly wear-resistant and biocompatible carbon nanocomposite coatings for dental implants. <i>Biomaterials</i> , 2016 , 102, 130-6	15.6	28
121	Nano-lubrication: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 829-841	1.7	28
120	A novel approach to wear reduction of micro-components by synthesis of carbon nanotube-silver composite coating. <i>CIRP Annals - Manufacturing Technology</i> , 2011 , 60, 599-602	4.9	28
119	Simultaneous grain refinement and nanoscale spinodal decomposition of β phase in Ti-Nb-Ta-Zr alloy induced by ultrasonic mechanical impacts. <i>Journal of Alloys and Compounds</i> , 2018 , 738, 540-549	5.7	27
118	Effect of surface roughness of top cover layer on the efficiency of dye-sensitized solar cell. <i>Solar Energy</i> , 2012 , 86, 2049-2055	6.8	26
117	Wetting characteristics of ZnO smooth film and nanowire structure with and without OTS coating. <i>Applied Surface Science</i> , 2008 , 254, 7370-7376	6.7	26
116	Surface Damage Characteristics of Self-Assembled Monolayers of Alkanethiols on Metal Surfaces. <i>Tribology Letters</i> , 2004 , 17, 835-844	2.8	26
115	Nano-scale patterning by mechano-chemical scanning probe lithography. <i>Applied Surface Science</i> , 2005 , 239, 209-221	6.7	26
114	Ultra-thin nano-patterned wear-protective diamond-like carbon coatings deposited on glass using a C60 ion beam. <i>Carbon</i> , 2014 , 80, 534-543	10.4	25
113	Tribological characteristics of probe tip and PZT media for AFM-based recording technology. <i>IEEE Transactions on Magnetics</i> , 2005 , 41, 849-854	2	25
112	Friction and Wear Characteristics of C/Si Bi-layer Coatings Deposited on Silicon Substrate by DC Magnetron Sputtering. <i>Tribology Letters</i> , 2012 , 48, 123-131	2.8	24
111	A phase II study of concurrent chemoradiotherapy with weekly docetaxel and cisplatin in advanced oesophageal cancer. <i>Cancer Chemotherapy and Pharmacology</i> , 2012 , 70, 683-90	3.5	24

110	Effectiveness of high-frequency ultrasonic peening treatment on the tribological characteristics of Cu-based sintered materials on steel substrate. <i>Materials & Design</i> , 2013 , 45, 118-124		24
109	Smart wearable heaters with high durability, flexibility, water-repellent and shape memory characteristics. <i>Composites Science and Technology</i> , 2017 , 152, 173-180	8.6	23
108	Tribological Properties of Graphene Oxide Nanosheet Coating Fabricated by Using Electrodynamic Spraying Process. <i>Tribology Letters</i> , 2015 , 57, 1	2.8	23
107	Minimum lubrication technique using silicone oil for friction reduction of stainless steel. <i>International Journal of Precision Engineering and Manufacturing</i> , 2013 , 14, 875-880	1.7	22
106	Measurement of the elastic modulus of polymeric films using an AFM with a steel micro-spherical probe tip. <i>Polymer Testing</i> , 2012 , 31, 926-930	4.5	22
105	Tribological properties of polymer/silica composite coatings for microsystems applications. <i>Tribology International</i> , 2011 , 44, 1926-1931	4.9	22
104	Self-healing Characteristics of Collagen Coatings with Respect to Surface Abrasion. <i>Scientific Reports</i> , 2016 , 6, 20563	4.9	21
103	Investigation of penetration force of living cell using an atomic force microscope. <i>Journal of Mechanical Science and Technology</i> , 2009 , 23, 1932-1938	1.6	21
102	Development of highly durable and low friction micro-structured PDMS coating based on bio-inspired surface design. <i>CIRP Annals - Manufacturing Technology</i> , 2015 , 64, 519-522	4.9	20
101	Functional Multi-Nanolayer Coatings of Amorphous Carbon/Tungsten Carbide with Exceptional Mechanical Durability and Corrosion Resistance. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 30149-30160	8.5	20
100	Tribological properties of twin wire arc spray coated aluminum cylinder liner. <i>Materials and Design</i> , 2015 , 84, 231-237	8.1	19
99	An investigation of the tribological and nano-scratch behaviors of FeNiCr alloy sintered by direct metal laser sintering. <i>Materials & Design</i> , 2013 , 47, 386-394		19
98	Nano-tribological characteristics of PZT thin film investigated by atomic force microscopy. <i>Surface and Coatings Technology</i> , 2007 , 201, 7983-7991	4.4	19
97	Selective release of less defective graphene during sliding of an incompletely reduced graphene oxide coating on steel. <i>Carbon</i> , 2018 , 134, 411-422	10.4	18
96	Durability and Self-healing Effects of Hydrogel Coatings with respect to Contact Condition. <i>Scientific Reports</i> , 2017 , 7, 6896	4.9	17
95	Molecular dynamics simulation of atomic-scale frictional behavior of corrugated nano-structured surfaces. <i>Nanoscale</i> , 2012 , 4, 3937-44	7.7	17
94	Assessment of adhesion between thin film and silicon based on a scratch test. <i>Journal of Mechanical Science and Technology</i> , 2010 , 24, 97-101	1.6	17
93	Application of single asperity abrasion process for surface micro-machining. <i>Wear</i> , 2001 , 251, 1133-1143	3.5	17

92	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. <i>Materials Chemistry and Physics</i> , 2021 , 262, 124265	4.4	17
91	Highly durable and biocompatible periodical Si/DLC nanocomposite coatings. <i>Nanoscale</i> , 2018 , 10, 4852-4860	4.7	16
90	Self-healing phenomenon and dynamic hardness of C60-based nanocomposite coatings. <i>Nano Letters</i> , 2014 , 14, 2536-40	11.5	16
89	Tribological properties of carbon nanotube/polyethylene oxide composite coatings. <i>Composites Science and Technology</i> , 2014 , 101, 102-109	8.6	16
88	Fundamental Investigation of the Wear Progression of Silicon Atomic Force Microscope Probes. <i>Tribology Letters</i> , 2013 , 52, 315-325	2.8	16
87	Effects of Proximity on Hardness and Elastic Modulus Measurements of SiO ₂ and Cu by Nanoindentation. <i>Tribology Letters</i> , 2013 , 49, 85-94	2.8	16
86	Design and Construction of a Micro-Tribotester for Precise In-Situ Wear Measurements. <i>Micromachines</i> , 2017 , 8, 103	3.3	16
85	Effects of vibration frequency and amplitude on friction reduction and wear characteristics of silicon. <i>Tribology International</i> , 2016 , 94, 198-206	4.9	15
84	Tribological behavior of dual-layer electroless-plated Ag/carbon nanotube coatings. <i>Thin Solid Films</i> , 2013 , 534, 410-416	2.2	15
83	Superior lubrication of dense/porous-coupled nanoscale C/WS ₂ multilayer coating on ductile substrate. <i>Applied Surface Science</i> , 2019 , 476, 724-732	6.7	14
82	Ultra-thin carbon-based nanocomposite coatings for superior wear resistance under lubrication with nano-diamond additives. <i>RSC Advances</i> , 2016 , 6, 56918-56929	3.7	14
81	Frictional behavior of atmospheric plasma jet deposited carbon/ZnO composite coatings. <i>Composites Science and Technology</i> , 2013 , 77, 60-66	8.6	14
80	Particle monitoring method using acoustic emission signal for analysis of slider/disk/particle interaction. <i>Tribology International</i> , 2004 , 37, 849-857	4.9	14
79	Investigation of mechanical behavior of single- and multi-layer graphene by using molecular dynamics simulation. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1693-1707	16.7	14
78	Enhancement of tribological properties of DLC by incorporation of amorphous titanium using magnetron sputtering process. <i>Ceramics International</i> , 2019 , 45, 11971-11981	5.1	13
77	Microstructure evolution and enhanced vacuum tribological performance of Ni-doped WS ₂ composite coating. <i>Surface and Coatings Technology</i> , 2017 , 325, 81-88	4.4	13
76	Tribological design methods for minimum surface damage of HDD slider. <i>Tribology International</i> , 2003 , 36, 467-473	4.9	13
75	Ion-beam irradiation of DLC-based nanocomposite: Creation of a highly biocompatible surface. <i>Applied Surface Science</i> , 2019 , 469, 896-903	6.7	13

74	RF magnetron sputtering mediated NiTi/Ag coating on Ti-alloy substrate with enhanced biocompatibility and durability. <i>Materials Science and Engineering C</i> , 2019 , 99, 304-314	8.3	12
73	Highly transparent micro-patterned protective coatings on polyethylene terephthalate for flexible solar cell applications. <i>Solar Energy</i> , 2018 , 171, 629-637	6.8	12
72	An optimal micropatterned end-effector for enhancing frictional force on large intestinal surface. <i>ACS Applied Materials & Interfaces</i> , 2010 , 2, 1308-16	9.5	12
71	Wear characteristics of microscopic bushings for MEMS applications investigated by an AFM. <i>Journal of Micromechanics and Microengineering</i> , 2007 , 17, 1877-1887	2	12
70	Study on nanoscale abrasive interaction between nanoprobe and self-assembled molecular surface for probe-based nanolithography process. <i>Ultramicroscopy</i> , 2007 , 107, 1-7	3.1	12
69	Tribological characteristics of ZnO nanowires investigated by atomic force microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2008 , 92, 267-274	2.6	12
68	Vapor phase lubrication using high molecular weight lubricant for friction reduction of metals. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014 , 15, 867-873	1.7	11
67	Dendritic cell-based immunotherapy for colon cancer using an HLA-A*0201-restricted cytotoxic T-lymphocyte epitope from tumor-associated antigen 90K. <i>Cellular and Molecular Immunology</i> , 2013 , 10, 275-82	15.4	11
66	Effects of Self-Assembled Monolayer and PFPE Lubricant on Wear Characteristics of Flat Silicon Tips. <i>Tribology Letters</i> , 2009 , 34, 61-73	2.8	11
65	Fabrication of polytetrafluoroethylene/carbon nanotube composite coatings for friction and wear reduction. <i>Polymer Composites</i> , 2018 , 39, E710-E722	3	10
64	Investigation of micro-abrasion characteristics of thin metallic coatings by in-situ SEM scratch test. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 1139-1147	1.7	10
63	Evaluation of the mechanical and tribological properties of a TFT-LCD panel. <i>Tribology International</i> , 2014 , 73, 95-100	4.9	9
62	Frictional behavior of Ag nanodot-pattern fabricated by thermal dewetting. <i>Surface and Coatings Technology</i> , 2013 , 215, 234-240	4.4	9
61	Mechanism of Heat-Induced Fusion of Silver Nanowires. <i>Scientific Reports</i> , 2020 , 10, 9271	4.9	9
60	Increased elasticity and damping capacity of diamond-like carbon coatings by immobilized C fullerene clusters. <i>Nanoscale</i> , 2019 , 11, 2863-2870	7.7	8
59	MD simulation of the frictional behavior of CNTs with respect to orientation. <i>Tribology International</i> , 2012 , 50, 51-56	4.9	8
58	Development of a CrN/Cu nanocomposite coating on titanium-modified stainless steel for antibacterial activity against <i>Pseudomonas aeruginosa</i> . <i>Biofouling</i> , 2012 , 28, 779-87	3.3	8
57	Assessment of surface damage mechanisms of head/disk interface using CSS and drag tests. <i>IEEE Transactions on Magnetics</i> , 1998 , 34, 1714-1716	2	8

56	Effect of substrate and protective coating on the tribological characteristics of optical recording media. <i>Wear</i> , 2003 , 255, 1306-1313	3.5	8
55	Experimental investigation of AE and friction signals related to the durability of head/disk interface. <i>Tribology International</i> , 1999 , 32, 399-405	4.9	8
54	Effect of slider load on the wear debris contamination tendency of head/slider. <i>IEEE Transactions on Magnetics</i> , 1999 , 35, 2355-2357	2	8
53	Design of endoscopic micro-robotic end effectors: safety and performance evaluation based on physical intestinal tissue damage characteristics. <i>Biomedical Microdevices</i> , 2014 , 16, 397-413	3.7	7
52	Synthesis and Multi Scale Tribological Behavior of WC-Co/Nanodiamond Nanocomposites. <i>Scientific Reports</i> , 2017 , 7, 7060	4.9	7
51	Effect of elevated annealing temperature on the microstructure and nano-hardness of ZnO films deposited by the sol-gel process. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 2005-2009	1.7	7
50	Wear rate of vertically grown ZnO nanowires sliding against steel micro-sphere. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2007 , 460-461, 370-378	5.3	7
49	Experimental Investigation of the Influence of Machining Condition on the Contact Sliding Behavior of Metals. <i>Journal of Manufacturing Science and Engineering, Transactions of the ASME</i> , 1998 , 120, 395-400	3.3	7
48	Effect of friction on the contact stress of a coated polymer gear. <i>Friction</i> , 2020 , 8, 1169-1177	5.6	7
47	In vitro study of a novel multi-substituted hydroxyapatite nanopowder synthesized by an ultra-fast, efficient and green microwave-assisted method. <i>Materials Science and Engineering C</i> , 2020 , 117, 111310	8.3	7
46	Tribological characteristics of micro-ball bearing with V-shaped grooves coated with ultra-thin protective layers. <i>Tribology International</i> , 2018 , 119, 481-490	4.9	7
45	Superior surface protection governed by optimized interface characteristics in WC/DLC multilayer coating. <i>Surface and Coatings Technology</i> , 2020 , 385, 125446	4.4	6
44	Effectiveness of bubble structure in contact damage reduction of Au film. <i>Tribology International</i> , 2012 , 55, 40-45	4.9	6
43	Adhesion characteristics of the snail foot under various surface conditions. <i>International Journal of Precision Engineering and Manufacturing</i> , 2010 , 11, 623-628	1.7	6
42	A Study on Frictional Characteristics of PDMS Under Various Conditions. <i>Journal of the Korean Society for Precision Engineering</i> , 2018 , 35, 803-807	0.3	6
41	Characterization of the friction and wear effects of graphene nanoparticles in oil on the ring/cylinder liner of internal combustion engine. <i>Industrial Lubrication and Tribology</i> , 2019 , 71, 642-652	1.3	5
40	Molecular dynamics investigation on the nano-mechanical behaviour of C fullerene and its crystallized structure. <i>Nanoscale</i> , 2020 , 12, 9849-9858	7.7	5
39	Strategies for improvement of tribological characteristics at the head/disk interface. <i>IEEE Transactions on Magnetics</i> , 2001 , 37, 912-917	2	5

38	Molecular dynamics simulation and experimental investigation of tribological behavior of nanodiamonds in aqueous suspensions. <i>Tribology International</i> , 2021 , 156, 106838	4.9	5
37	Understanding of the lubrication mechanism of reduced graphene oxide coating via dual in-situ monitoring of the chemical and topographic structural evolution. <i>Carbon</i> , 2021 , 173, 941-952	10.4	5
36	Development of flexible polymer sheet with high surface durability using discretely embedded micro-balls. <i>CIRP Annals - Manufacturing Technology</i> , 2017 , 66, 527-530	4.9	4
35	Frictional Characteristics of Sub-100- μm Borosilicate Glass Balls for Actuator Applications. <i>Journal of Microelectromechanical Systems</i> , 2015 , 24, 2161-2169	2.5	4
34	Surface damage behavior of polyurethane O-rings in automated material handling system for glass panels. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016 , 17, 43-50	1.7	4
33	Wear minimization through utilization of atomic-scale functional surface structure. <i>Applied Physics Letters</i> , 2013 , 103, 151904	3.4	4
32	Prediction of asperity contact condition using FFT-based analysis for micro-grooved surface design in tribological applications. <i>Journal Physics D: Applied Physics</i> , 2003 , 36, 939-945	3	4
31	Formation Mechanism of High-Entropy Spinel Thin Film and its Mechanical and Magnetic Properties: Linking High-Entropy Alloy to High-Entropy Ceramic. <i>Applied Surface Science</i> , 2021 , 151719	6.7	4
30	Friction and wear behaviors of bare and diamond-like carbon/chromium bi-layer coated SKH51 steel at low temperatures. <i>Surface and Coatings Technology</i> , 2021 , 412, 127018	4.4	4
29	Hard, Flexible, and Transparent Nanolayered SiN /BN Periodical Coatings. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 9685-9690	9.5	4
28	Friction and Deformation Behaviors of ~60- μm Stainless Steel Micro-balls for Application in Small Precision Devices. <i>Tribology Letters</i> , 2015 , 59, 1	2.8	3
27	Characterization of durability of coatings for cell phone cover by wear, erosion, and pull-off tests. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 1633-1639	1.7	3
26	Comparison of Indentation and Scribing Behaviors of Crystalline and Initially Deformed Silicon Tips by Molecular Dynamics Simulation. <i>IEEE Transactions on Magnetics</i> , 2009 , 45, 2328-2331	2	3
25	Direct force measurement of the interaction between liposome and the C2A domain of synaptotagmin I using atomic force microscopy. <i>Biotechnology Letters</i> , 2006 , 28, 505-9	3	3
24	Nano-mechanical and tribological characteristics of ultra-thin amorphous carbon film investigated by afm. <i>Journal of Mechanical Science and Technology</i> , 2004 , 18, 1772-1781		3
23	Formation of Functional Conductive Carbon Coating on Si by C60 Ion Beam 2021 , 131		3
22	Experimental Investigation of Friction and Wear Characteristics of O-Ring. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2009 , 33, 1125-1131	1	3
21	Effects of molybdenum-based substrate coatings on tribological performance of graphene films. <i>Carbon</i> , 2021 , 176, 488-499	10.4	2

20	Assessment of nano-scale tribological and mechanical properties of flexible transparent polymers based on atomic force microscopy. <i>CIRP Annals - Manufacturing Technology</i> , 2019 , 68, 599-602	4.9	1
19	Fundamental investigation of micro-scale wear characteristics of ultra-fine gold wires under low contact force and long sliding distance. <i>Wear</i> , 2016 , 348-349, 1-9	3.5	1
18	Development of rotary tool for removal of intravascular blood clots. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012 , 13, 413-419	1.7	1
17	Formation of discrete periodic nanolayered coatings through tailoring of nanointerfaces-Toward zero macroscale wear. <i>Science Advances</i> , 2021 , 7, eabk1224	14.3	1
16	Tribochemical reaction and wear mechanism of MoDTC based friction modifier. <i>Tribology International</i> , 2022 , 165, 107302	4.9	1
15	Wear Reduction of Borosilicate Glass Microballs Using Vapor-Phase Lubrication With n-Pentanol. <i>Tribology Transactions</i> , 2016 , 59, 507-512	1.8	1
14	Formation of wear-resistant graphite/diamond-like carbon nanocomposite coatings on Ti using accelerated C60-ions. <i>Surface and Coatings Technology</i> , 2021 , 424, 127670	4.4	1
13	One-step method to enhance biotribological properties and biocompatibility of DLC coating by ion beam irradiation. <i>Friction</i> , 2022 , 10, 1114-1126	5.6	1
12	Effect of V-Groove Surface Pattern on the Tribological Properties of Epoxy. <i>Tribology Transactions</i> , 2021 , 64, 302-312	1.8	0
11	Tribological Self-healing Coating based on Hydrogel. <i>Mechanisms and Machine Science</i> , 2019 , 3771-3774	0.3	
10	Assessment of surface damage characteristics of polymeric optical sheets of LCD backlight unit. <i>Polymer Testing</i> , 2015 , 48, 140-150	4.5	
9	Characteristics of Progressive Damage of ZnO Nanowires during Contact Sliding under Relatively Low Loads. <i>Journal of Nanomaterials</i> , 2011 , 2011, 1-7	3.2	
8	Development of flying type head/slider for optical recording technology. <i>Tribology International</i> , 2005 , 38, 578-587	4.9	
7	Features of the Conductive Carbon Coatings Formation on Titanium Electrodes Using C60 Ion Beams. <i>Springer Proceedings in Physics</i> , 2022 , 385-394	0.2	
6	Numerical and experimental study of tribological properties of glass/polymer-based micro ball bearings. <i>Wear</i> , 2022 , 488-489, 204173	3.5	
5	Tribological properties of the hierarchically structured graphene oxide composite coatings reinforced with polyvinyl alcohol. <i>Wear</i> , 2022 , 490-491, 204212	3.5	
4	Lubrication of Carbon-based Coatings. <i>Mechanisms and Machine Science</i> , 2019 , 3775-3778	0.3	
3	Key Parameter of Peel-off Test for Reliability Assessment of Toner Film. <i>Transactions of the Korean Society of Mechanical Engineers, A</i> , 2010 , 34, 1567-1573	1	

2 Design Approach and Structural Analysis for Development of a Micro-Wear Tester. *Transactions of the Society of Information Storage Systems*, **2012**, 8, 6-10

1 Tribological Characteristics of Silver Electroless-Plating Process According to Thicknesses Variation. *Transactions of the Korean Society of Mechanical Engineers, A*, **2013**, 37, 219-225

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