

Dae-Eun Kim

List of Publications by Year in descending order

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165
papers

5,110
citations

87886

38
h-index

114455

63
g-index

166
all docs

166
docs citations

166
times ranked

5645
citing authors

#	ARTICLE	IF	CITATIONS
1	A review of recent applications of atmospheric pressure plasma jets for materials processing. <i>Journal of Coatings Technology Research</i> , 2015, 12, 225-235.	2.5	209
2	Non-volatile organic memory with sub-millimetre bending radius. <i>Nature Communications</i> , 2014, 5, 3583.	12.8	196
3	Fretting wear and friction reduction of CP titanium and Ti-6Al-4V alloy by ultrasonic nanocrystalline surface modification. <i>Surface and Coatings Technology</i> , 2012, 207, 135-142.	4.8	188
4	Tribology of graphene: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2014, 15, 577-585.	2.2	167
5	Friction and wear characteristics of multi-layer graphene films investigated by atomic force microscopy. <i>Surface and Coatings Technology</i> , 2011, 205, 4864-4869.	4.8	159
6	Tribology of multilayer coatings for wear reduction: A review. <i>Friction</i> , 2017, 5, 248-262.	6.4	145
7	Durability and degradation mechanism of graphene coatings deposited on Cu substrates under dry contact sliding. <i>Carbon</i> , 2013, 54, 472-481.	10.3	132
8	Mechanically Recoverable and Highly Efficient Perovskite Solar Cells: Investigation of Intrinsic Flexibility of Organic-Inorganic Perovskite. <i>Advanced Energy Materials</i> , 2015, 5, 1501406.	19.5	131
9	Effects of ultrasonic nanocrystalline surface modification on the tribological properties of AZ91D magnesium alloy. <i>Tribology International</i> , 2012, 54, 106-113.	5.9	130
10	Characteristics of fracture during the approach process and wear mechanism of a silicon AFM tip. <i>Ultramicroscopy</i> , 2005, 102, 161-171.	1.9	126
11	Fundamental Investigation of Micro Wear Rate Using an Atomic Force Microscope. <i>Tribology Letters</i> , 2003, 15, 135-144.	2.6	95
12	A highly flexible transparent conductive electrode based on nanomaterials. <i>NPG Asia Materials</i> , 2017, 9, e438-e438.	7.9	92
13	Experimental investigation of frictional and viscoelastic properties of intestine for microendoscope application. <i>Tribology Letters</i> , 2006, 22, 143-149.	2.6	89
14	Water Lubrication of Stainless Steel using Reduced Graphene Oxide Coating. <i>Scientific Reports</i> , 2015, 5, 17034.	3.3	84
15	Nano-scale friction: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2009, 10, 141-151.	2.2	78
16	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.	2.6	69
17	Nano-scale wear: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2012, 13, 1709-1718.	2.2	68
18	Investigation of the tribological behavior of octadecyltrichlorosilane deposited on silicon. <i>Wear</i> , 2001, 251, 1169-1176.	3.1	67

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19	Docetaxel-loaded thermoresponsive conjugated linoleic acid-incorporated poloxamer hydrogel for the suppression of peritoneal metastasis of gastric cancer. <i>Biomaterials</i> , 2013, 34, 1433-1441.	11.4	62
20	Ultrafast green microwave-assisted synthesis of high-entropy oxide nanoparticles for Li-ion battery applications. <i>Materials Chemistry and Physics</i> , 2021, 262, 124265.	4.0	61
21	Micro/nano-tribological characteristics of self-assembled monolayer and its application in nano-structure fabrication. <i>Wear</i> , 2003, 255, 808-818.	3.1	58
22	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.	3.6	54
23	Significant improvement in cell adhesion and wear resistance of biomedical $\hat{\text{T}}^2$ -type titanium alloy through ultrasonic nanocrystal surface modification. <i>Journal of Alloys and Compounds</i> , 2018, 762, 941-949.	5.5	54
24	Structural and tribological characteristics of poly(vinylidene fluoride)/functionalized graphene oxide nanocomposite thin films. <i>Composites Science and Technology</i> , 2014, 90, 187-192.	7.8	52
25	Nanostructured $\hat{\text{T}}^2$ -type titanium alloy fabricated by ultrasonic nanocrystal surface modification. <i>Ultrasonics Sonochemistry</i> , 2017, 39, 698-706.	8.2	50
26	Tribological properties of nanostructured DLC coatings deposited by C60 ion beam. <i>Tribology International</i> , 2013, 60, 127-135.	5.9	49
27	Tribological properties, corrosion resistance and biocompatibility of magnetron sputtered titanium-amorphous carbon coatings. <i>Applied Surface Science</i> , 2016, 371, 262-274.	6.1	49
28	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.	4.8	48
29	Highly efficient perovskite solar cells based on mechanically durable molybdenum cathode. <i>Nano Energy</i> , 2015, 17, 131-139.	16.0	48
30	Effect of surface topography on the frictional behavior at the micro/nano-scale. <i>Wear</i> , 2003, 254, 1019-1031.	3.1	47
31	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.	10.4	45
32	Wear characteristics of diamond-coated atomic force microscope probe. <i>Ultramicroscopy</i> , 2007, 108, 1-10.	1.9	43
33	Toward Zero Micro/Macro-Scale Wear Using Periodic Nano-Layered Coatings. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18136-18144.	8.0	42
34	Elevated temperature wear behavior of thermally sprayed WC-Co/nanodiamond composite coatings. <i>Surface and Coatings Technology</i> , 2017, 315, 283-293.	4.8	42
35	Simultaneous grain refinement and nanoscale spinodal decomposition of $\hat{\text{T}}^2$ phase in Ti-Nb-Ta-Zr alloy induced by ultrasonic mechanical impacts. <i>Journal of Alloys and Compounds</i> , 2018, 738, 540-549.	5.5	42
36	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.	1.8	41

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37	Highly wear-resistant and biocompatible carbon nanocomposite coatings for dental implants. <i>Biomaterials</i> , 2016, 102, 130-136.	11.4	41
38	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.	2.3	40
39	Nano-lubrication: A review. <i>International Journal of Precision Engineering and Manufacturing</i> , 2016, 17, 829-841.	2.2	40
40	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.	4.9	39
41	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.	3.6	36
42	Accelerated wear test of FKM elastomer for life prediction of seals. <i>Polymer Testing</i> , 2012, 31, 993-1000.	4.8	36
43	Sliding and rolling frictional behavior of a single ZnO nanowire during manipulation with an AFM. <i>Nanoscale</i> , 2013, 5, 6081.	5.6	36
44	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.	7.0	36
45	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.	4.8	35
46	Improvement of the tribological properties of Al ₆₀₆₁ -T6 alloy under dry sliding conditions. <i>Tribology International</i> , 2013, 64, 24-32.	5.9	35
47	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.	8.0	35
48	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.	4.8	33
49	Smart wearable heaters with high durability, flexibility, water-repellent and shape memory characteristics. <i>Composites Science and Technology</i> , 2017, 152, 173-180.	7.8	32
50	Nano-scale patterning by mechano-chemical scanning probe lithography. <i>Applied Surface Science</i> , 2005, 239, 209-221.	6.1	31
51	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.	2.2	31
52	Self-healing Characteristics of Collagen Coatings with Respect to Surface Abrasion. <i>Scientific Reports</i> , 2016, 6, 20563.	3.3	31
53	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.	2.6	30
54	Effect of surface roughness of top cover layer on the efficiency of dye-sensitized solar cell. <i>Solar Energy</i> , 2012, 86, 2049-2055.	6.1	30

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55	Tribological characteristics of probe tip and PZT media for AFM-based recording technology. IEEE Transactions on Magnetics, 2005, 41, 849-854.	2.1	28
56	Development of highly durable and low friction micro-structured PDMS coating based on bio-inspired surface design. CIRP Annals - Manufacturing Technology, 2015, 64, 519-522.	3.6	28
57	Wetting characteristics of ZnO smooth film and nanowire structure with and without OTS coating. Applied Surface Science, 2008, 254, 7370-7376.	6.1	27
58	A phase II study of concurrent chemoradiotherapy with weekly docetaxel and cisplatin in advanced oesophageal cancer. Cancer Chemotherapy and Pharmacology, 2012, 70, 683-690.	2.3	27
59	Ultra-thin nano-patterned wear-protective diamond-like carbon coatings deposited on glass using a C 60 ion beam. Carbon, 2014, 80, 534-543.	10.3	27
60	Tribological Properties of Graphene Oxide Nanosheet Coating Fabricated by Using Electrodynamic Spraying Process. Tribology Letters, 2015, 57, 1.	2.6	27
61	Surface Damage Characteristics of Self-Assembled Monolayers of Alkanethiols on Metal Surfaces. Tribology Letters, 2004, 17, 835-844.	2.6	26
62	Effectiveness of high-frequency ultrasonic peening treatment on the tribological characteristics of Cu-based sintered materials on steel substrate. Materials & Design, 2013, 45, 118-124.	5.1	26
63	Tribological properties of twin wire arc spray coated aluminum cylinder liner. Materials and Design, 2015, 84, 231-237.	7.0	26
64	Tribological properties of polymer/silica composite coatings for microsystems applications. Tribology International, 2011, 44, 1926-1931.	5.9	25
65	Investigation of penetration force of living cell using an atomic force microscope. Journal of Mechanical Science and Technology, 2009, 23, 1932-1938.	1.5	24
66	An investigation of the tribological and nano-scratch behaviors of Fe-Ni-Cr alloy sintered by direct metal laser sintering. Materials & Design, 2013, 47, 386-394.	5.1	24
67	Durability and Self-healing Effects of Hydrogel Coatings with respect to Contact Condition. Scientific Reports, 2017, 7, 6896.	3.3	24
68	Nano-tribological characteristics of PZT thin film investigated by atomic force microscopy. Surface and Coatings Technology, 2007, 201, 7983-7991.	4.8	23
69	Effects of vibration frequency and amplitude on friction reduction and wear characteristics of silicon. Tribology International, 2016, 94, 198-206.	5.9	23
70	Highly durable and biocompatible periodical Si/DLC nanocomposite coatings. Nanoscale, 2018, 10, 4852-4860.	5.6	23
71	Tribological properties of carbon nanotube-polyethylene oxide composite coatings. Composites Science and Technology, 2014, 101, 102-109.	7.8	22
72	Understanding of the lubrication mechanism of reduced graphene oxide coating via dual in-situ monitoring of the chemical and topographic structural evolution. Carbon, 2021, 173, 941-952.	10.3	22

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73	Effect of friction on the contact stress of a coated polymer gear. <i>Friction</i> , 2020, 8, 1169-1177.	6.4	21
74	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> , 2022, 576, 151719.	6.1	21
75	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.	1.5	20
76	Molecular dynamics simulation of atomic-scale frictional behavior of corrugated nano-structured surfaces. <i>Nanoscale</i> , 2012, 4, 3937.	5.6	20
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.	4.8	20
78	Design and Construction of a Micro-Tribotester for Precise In-Situ Wear Measurements. <i>Micromachines</i> , 2017, 8, 103.	2.9	20
79	Superior lubrication of dense/porous-coupled nanoscale C/WS ₂ multilayer coating on ductile substrate. <i>Applied Surface Science</i> , 2019, 476, 724-732.	6.1	20
80	Effects of Proximity on Hardness and Elastic Modulus Measurements of SiO ₂ and Cu by Nanoindentation. <i>Tribology Letters</i> , 2013, 49, 85-94.	2.6	19
81	Selective release of less defective graphene during sliding of an incompletely reduced graphene oxide coating on steel. <i>Carbon</i> , 2018, 134, 411-422.	10.3	19
82	Enhancement of tribological properties of DLC by incorporation of amorphous titanium using magnetron sputtering process. <i>Ceramics International</i> , 2019, 45, 11971-11981.	4.8	19
83	Ion-beam irradiation of DLC-based nanocomposite: Creation of a highly biocompatible surface. <i>Applied Surface Science</i> , 2019, 469, 896-903.	6.1	19
84	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.	7.3	19
85	Application of single asperity abrasion process for surface micro-machining. <i>Wear</i> , 2001, 251, 1133-1143.	3.1	18
86	Fundamental Investigation of the Wear Progression of Silicon Atomic Force Microscope Probes. <i>Tribology Letters</i> , 2013, 52, 315-325.	2.6	18
87	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, 1693-1701.	2.2	18
88	Tribological behavior of dual-layer electroless-plated Ag-carbon nanotube coatings. <i>Thin Solid Films</i> , 2013, 534, 410-416.	1.8	17
89	Self-Healing Phenomenon and Dynamic Hardness of C ₆₀ -Based Nanocomposite Coatings. <i>Nano Letters</i> , 2014, 14, 2536-2540.	9.1	17
90	Exceptional improvement in the wear resistance of biomedical β -type titanium alloy with the use of a biocompatible multilayer Si/DLC nanocomposite coating. <i>Ceramics International</i> , 2022, 48, 17376-17384.	4.8	17

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91	Fabrication of polytetrafluoroethylene-carbon nanotube composite coatings for friction and wear reduction. <i>Polymer Composites</i> , 2018, 39, E710.	4.6	16
92	Mechanism of Heat-Induced Fusion of Silver Nanowires. <i>Scientific Reports</i> , 2020, 10, 9271.	3.3	16
93	Particle monitoring method using acoustic emission signal for analysis of slider/disk/particle interaction. <i>Tribology International</i> , 2004, 37, 849-857.	5.9	15
94	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, 275-282.	10.5	15
95	Ultra-thin carbon-based nanocomposite coatings for superior wear resistance under lubrication with nano-diamond additives. <i>RSC Advances</i> , 2016, 6, 56918-56929.	3.6	15
96	Frictional behavior of atmospheric plasma jet deposited carbon-ZnO composite coatings. <i>Composites Science and Technology</i> , 2013, 77, 60-66.	7.8	14
97	Highly transparent micro-patterned protective coatings on polyethylene terephthalate for flexible solar cell applications. <i>Solar Energy</i> , 2018, 171, 629-637.	6.1	14
98	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.	7.3	14
99	Molecular dynamics simulation and experimental investigation of tribological behavior of nanodiamonds in aqueous suspensions. <i>Tribology International</i> , 2021, 156, 106838.	5.9	14
100	Tribological design methods for minimum surface damage of HDD slider. <i>Tribology International</i> , 2003, 36, 467-473.	5.9	13
101	Study on nanoscale abrasive interaction between nanoprobe and self-assembled molecular surface for probe-based nanolithography process. <i>Ultramicroscopy</i> , 2007, 107, 1-7.	1.9	13
102	Tribological characteristics of ZnO nanowires investigated by atomic force microscope. <i>Applied Physics A: Materials Science and Processing</i> , 2008, 92, 267-274.	2.3	13
103	Effects of Self-Assembled Monolayer and PFPE Lubricant on Wear Characteristics of Flat Silicon Tips. <i>Tribology Letters</i> , 2009, 34, 61-73.	2.6	13
104	MD simulation of the frictional behavior of CNTs with respect to orientation. <i>Tribology International</i> , 2012, 50, 51-56.	5.9	13
105	Tribological characteristics of micro-ball bearing with V-shaped grooves coated with ultra-thin protective layers. <i>Tribology International</i> , 2018, 119, 481-490.	5.9	13
106	Superior surface protection governed by optimized interface characteristics in WC/DLC multilayer coating. <i>Surface and Coatings Technology</i> , 2020, 385, 125446.	4.8	13
107	Tribochemical reaction and wear mechanism of MoDTC based friction modifier. <i>Tribology International</i> , 2022, 165, 107302.	5.9	13
108	Wear characteristics of microscopic bushings for MEMS applications investigated by an AFM. <i>Journal of Micromechanics and Microengineering</i> , 2007, 17, 1877-1887.	2.6	12

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109	An Optimal Micropatterned End-Effector for Enhancing Frictional Force on Large Intestinal Surface. ACS Applied Materials & Interfaces, 2010, 2, 1308-1316.	8.0	12
110	Vapor phase lubrication using high molecular weight lubricant for friction reduction of metals. International Journal of Precision Engineering and Manufacturing, 2014, 15, 867-873.	2.2	12
111	Increased elasticity and damping capacity of diamond-like carbon coatings by immobilized C ₆₀ fullerene clusters. Nanoscale, 2019, 11, 2863-2870.	5.6	12
112	A Study on Frictional Characteristics of PDMS Under Various Conditions. Journal of the Korean Society for Precision Engineering, 2018, 35, 803-807.	0.2	12
113	Assessment of surface damage mechanisms of head/disk interface using CSS and drag tests. IEEE Transactions on Magnetics, 1998, 34, 1714-1716.	2.1	11
114	Formation of discrete periodic nanolayered coatings through tailoring of nanointerfaces—Toward zero macroscale wear. Science Advances, 2021, 7, eabk1224.	10.3	11
115	Effect of slider load on the wear debris contamination tendency of head/slider. IEEE Transactions on Magnetics, 1999, 35, 2355-2357.	2.1	10
116	Frictional behavior of Ag nanodot-pattern fabricated by thermal dewetting. Surface and Coatings Technology, 2013, 215, 234-240.	4.8	10
117	Investigation of micro-abrasion characteristics of thin metallic coatings by in-situ SEM scratch test. International Journal of Precision Engineering and Manufacturing, 2016, 17, 1139-1147.	2.2	10
118	Synthesis and Multi Scale Tribological Behavior of WC-Co/Nanodiamond Nanocomposites. Scientific Reports, 2017, 7, 7060.	3.3	10
119	Hard, Flexible, and Transparent Nanolayered SiN _x /BN Periodical Coatings. ACS Applied Materials & Interfaces, 2019, 11, 9685-9690.	8.0	10
120	Molecular dynamics investigation on the nano-mechanical behaviour of C60 fullerene and its crystallized structure. Nanoscale, 2020, 12, 9849-9858.	5.6	10
121	Experimental Investigation of the Influence of Machining Condition on the Contact Sliding Behavior of Metals. Journal of Manufacturing Science and Engineering, Transactions of the ASME, 1998, 120, 395-400.	2.2	9
122	Effect of substrate and protective coating on the tribological characteristics of optical recording media. Wear, 2003, 255, 1306-1313.	3.1	9
123	Adhesion characteristics of the snail foot under various surface conditions. International Journal of Precision Engineering and Manufacturing, 2010, 11, 623-628.	2.2	9
124	Development of a CrN/Cu nanocomposite coating on titanium-modified stainless steel for antibacterial activity against Pseudomonas aeruginosa. Biofouling, 2012, 28, 779-787.	2.2	9
125	Effect of elevated annealing temperature on the microstructure and nano-hardness of ZnO films deposited by the sol-gel process. International Journal of Precision Engineering and Manufacturing, 2012, 13, 2005-2009.	2.2	9
126	Evaluation of the mechanical and tribological properties of a TFT-LCD panel. Tribology International, 2014, 73, 95-100.	5.9	9

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127	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.	2.8	9
128	Development of flexible polymer sheet with high surface durability using discretely embedded micro-balls. <i>CIRP Annals - Manufacturing Technology</i> , 2017, 66, 527-530.	3.6	9
129	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.	4.8	9
130	Experimental investigation of AE and friction signals related to the durability of head/disk interface. <i>Tribology International</i> , 1999, 32, 399-405.	5.9	8
131	Effects of molybdenum-based substrate coatings on tribological performance of graphene films. <i>Carbon</i> , 2021, 176, 488-499.	10.3	8
132	One-step method to enhance biotribological properties and biocompatibility of DLC coating by ion beam irradiation. <i>Friction</i> , 2022, 10, 1114-1126.	6.4	8
133	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, 370-376.	5.6	7
134	Effectiveness of bubble structure in contact damage reduction of Au film. <i>Tribology International</i> , 2012, 55, 40-45.	5.9	7
135	Strategies for improvement of tribological characteristics at the head/disk interface. <i>IEEE Transactions on Magnetics</i> , 2001, 37, 912-917.	2.1	6
136	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	6
137	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.	4.8	6
138	Wear minimization through utilization of atomic-scale functional surface structure. <i>Applied Physics Letters</i> , 2013, 103, 151904.	3.3	5
139	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.	2.2	5
140	Formation of Functional Conductive Carbon Coating on Si by C60 Ion Beam. <i>Springer Proceedings in Physics</i> , 2021, , 131-139.	0.2	5
141	Molecular weight tuning optimizes poly(2-methoxyethyl acrylate) dispersion to enhance the aging resistance and anti-fouling behavior of denture base resin. <i>Biomaterials Science</i> , 2022, 10, 2224-2236.	5.4	5
142	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.	2.8	4
143	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
144	Wear Reduction of Borosilicate Glass Microballs Using Vapor-Phase Lubrication With n-Pentanol. <i>Tribology Transactions</i> , 2016, 59, 507-512.	2.0	4

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145	Nano-mechanical and tribological characteristics of ultra-thin amorphous carbon film investigated by afm. Journal of Mechanical Science and Technology, 2004, 18, 1772-1781.	0.4	3
146	Direct Force Measurement of the Interaction Between Liposome and the C2A Domain of Synaptotagmin I using Atomic Force Microscopy. Biotechnology Letters, 2006, 28, 505-509.	2.2	3
147	Comparison of Indentation and Scribing Behaviors of Crystalline and Initially Deformed Silicon Tips by Molecular Dynamics Simulation. IEEE Transactions on Magnetics, 2009, 45, 2328-2331.	2.1	3
148	Characterization of durability of coatings for cell phone cover by wear, erosion, and pull-off tests. International Journal of Precision Engineering and Manufacturing, 2012, 13, 1633-1639.	2.2	3
149	Friction and Deformation Behaviors of ~60- μ m Stainless Steel Micro-balls for Application in Small Precision Devices. Tribology Letters, 2015, 59, 1.	2.6	3
150	Experimental Investigation of Friction and Wear Characteristics of O-Ring. Transactions of the Korean Society of Mechanical Engineers, A, 2009, 33, 1125-1131.	0.2	3
151	Development of rotary tool for removal of intravascular blood clots. International Journal of Precision Engineering and Manufacturing, 2012, 13, 413-419.	2.2	2
152	Fundamental investigation of micro-scale wear characteristics of ultra-fine gold wires under low contact force and long sliding distance. Wear, 2016, 348-349, 1-9.	3.1	2
153	Effect of V-Groove Surface Pattern on the Tribological Properties of Epoxy. Tribology Transactions, 2021, 64, 302-312.	2.0	2
154	Tribological properties of the hierarchically structured graphene oxide composite coatings reinforced with polyvinyl alcohol. Wear, 2022, 490-491, 204212.	3.1	2
155	Assessment of nano-scale tribological and mechanical properties of flexible transparent polymers based on atomic force microscopy. CIRP Annals - Manufacturing Technology, 2019, 68, 599-602.	3.6	1
156	Numerical and experimental study of tribological properties of glass/polymer-based micro ball bearings. Wear, 2022, 488-489, 204173.	3.1	1
157	Tribological characteristics of probe tip and PZT media for AFM-based recording technology. , 0, , .		0
158	Development of flying type head/slider for optical recording technology. Tribology International, 2005, 38, 578-587.	5.9	0
159	Characteristics of Progressive Damage of ZnO Nanowires during Contact Sliding under Relatively Low Loads. Journal of Nanomaterials, 2011, 2011, 1-7.	2.7	0
160	Assessment of surface damage characteristics of polymeric optical sheets of LCD backlight unit. Polymer Testing, 2015, 48, 140-150.	4.8	0
161	Tribological Self-healing Coating based on Hydrogel. Mechanisms and Machine Science, 2019, , 3771-3774.	0.5	0
162	Key Parameter of Peel-off Test for Reliability Assessment of Toner Film. Transactions of the Korean Society of Mechanical Engineers, A, 2010, 34, 1567-1573.	0.2	0

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