

Bharat Bhushan

List of Publications by Year in descending order

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849
papers

51,021
citations

1299

109
h-index

2743

192
g-index

871
all docs

871
docs citations

871
times ranked

31713
citing authors

#	ARTICLE	IF	CITATIONS
1	Natural and biomimetic artificial surfaces for superhydrophobicity, self-cleaning, low adhesion, and drag reduction. <i>Progress in Materials Science</i> , 2011, 56, 1-108.	16.0	1,614
2	Nanotribology: friction, wear and lubrication at the atomic scale. <i>Nature</i> , 1995, 374, 607-616.	13.7	1,514
3	Biomimetics: lessons from nature—an overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1445-1486.	1.6	993
4	Multifunctional surface structures of plants: An inspiration for biomimetics. <i>Progress in Materials Science</i> , 2009, 54, 137-178.	16.0	756
5	Bioinspired self-cleaning surfaces with superhydrophobicity, superoleophobicity, and superhydrophilicity. <i>RSC Advances</i> , 2013, 3, 671-690.	1.7	702
6	Micro-, nano- and hierarchical structures for superhydrophobicity, self-cleaning and low adhesion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1631-1672.	1.6	660
7	Diversity of structure, morphology and wetting of plant surfaces. <i>Soft Matter</i> , 2008, 4, 1943.	1.2	613
8	Fabrication of artificial Lotus leaves and significance of hierarchical structure for superhydrophobicity and low adhesion. <i>Soft Matter</i> , 2009, 5, 1386.	1.2	605
9	Shark-skin surfaces for fluid-drag reduction in turbulent flow: a review. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4775-4806.	1.6	542
10	Superhydrophobic surfaces and emerging applications: Non-adhesion, energy, green engineering. <i>Current Opinion in Colloid and Interface Science</i> , 2009, 14, 270-280.	3.4	531
11	Fabrication of Superhydrophobic Surfaces with High and Low Adhesion Inspired from Rose Petal. <i>Langmuir</i> , 2010, 26, 8207-8217.	1.6	440
12	Adhesion and stiction: Mechanisms, measurement techniques, and methods for reduction. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2003, 21, 2262.	1.6	437
13	Self-Cleaning Efficiency of Artificial Superhydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 3240-3248.	1.6	436
14	Biofouling: lessons from nature. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2381-2417.	1.6	425
15	The rose petal effect and the modes of superhydrophobicity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4713-4728.	1.6	418
16	Hierarchical structure and mechanical properties of nacre: a review. <i>RSC Advances</i> , 2012, 2, 7617.	1.7	415
17	Wetting Behavior of Water and Oil Droplets in Three-Phase Interfaces for Hydrophobicity/philicity and Oleophobicity/philicity. <i>Langmuir</i> , 2009, 25, 14165-14173.	1.6	407
18	Contact angle, adhesion and friction properties of micro-and nanopatterned polymers for superhydrophobicity. <i>Nanotechnology</i> , 2006, 17, 4970-4980.	1.3	400

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19	Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler. <i>Wear</i> , 1995, 190, 76-88.	1.5	390
20	Structural coloration in nature. <i>RSC Advances</i> , 2013, 3, 14862.	1.7	380
21	A Review of Ionic Liquids for Green Molecular Lubrication in Nanotechnology. <i>Tribology Letters</i> , 2010, 40, 247-268.	1.2	378
22	Nanomechanical characterisation of solid surfaces and thin films. <i>International Materials Reviews</i> , 2003, 48, 125-164.	9.4	375
23	Mechanically Durable Carbon Nanotube Composite Hierarchical Structures with Superhydrophobicity, Self-Cleaning, and Low-Drag. <i>ACS Nano</i> , 2009, 3, 4155-4163.	7.3	357
24	Hydrophobicity, Adhesion, and Friction Properties of Nanopatterned Polymers and Scale Dependence for Micro- and Nanoelectromechanical Systems. <i>Nano Letters</i> , 2005, 5, 1607-1613.	4.5	354
25	Atomic-Scale Friction Measurements Using Friction Force Microscopy: Part I General Principles and New Measurement Techniques. <i>Journal of Tribology</i> , 1994, 116, 378-388.	1.0	352
26	Chemical, mechanical and tribological characterization of ultra-thin and hard amorphous carbon coatings as thin as 3.5 nm: recent developments. <i>Diamond and Related Materials</i> , 1999, 8, 1985-2015.	1.8	338
27	Biomimetic Superhydrophobic Surfaces: A Multiscale Approach. <i>Nano Letters</i> , 2007, 7, 2633-2637.	4.5	338
28	Dynamic Effects of Bouncing Water Droplets on Superhydrophobic Surfaces. <i>Langmuir</i> , 2008, 24, 6262-6269.	1.6	323
29	Contact mechanics of rough surfaces in tribology: multiple asperity contact. <i>Tribology Letters</i> , 1998, 4, 1-35.	1.2	321
30	Nanotribology and nanomechanics of MEMS/NEMS and BioMEMS/BioNEMS materials and devices. <i>Microelectronic Engineering</i> , 2007, 84, 387-412.	1.1	320
31	Bioinspired rice leaf and butterfly wing surface structures combining shark skin and lotus effects. <i>Soft Matter</i> , 2012, 8, 11271.	1.2	315
32	Wetting study of patterned surfaces for superhydrophobicity. <i>Ultramicroscopy</i> , 2007, 107, 1033-1041.	0.8	310
33	Plant Surfaces: Structures and Functions for Biomimetic Innovations. <i>Nano-Micro Letters</i> , 2017, 9, 23.	14.4	304
34	Micro- and nanoscale characterization of hydrophobic and hydrophilic leaf surfaces. <i>Nanotechnology</i> , 2006, 17, 2758-2772.	1.3	303
35	Mechanical characterization of micro/nanoscale structures for MEMS/NEMS applications using nanoindentation techniques. <i>Ultramicroscopy</i> , 2003, 97, 481-494.	0.8	294
36	Fracture mechanisms of thin amorphous carbon films in nanoindentation. <i>Acta Materialia</i> , 1997, 45, 4453-4461.	3.8	271

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37	Roughness optimization for biomimetic superhydrophobic surfaces. <i>Microsystem Technologies</i> , 2005, 11, 535-549.	1.2	270
38	Nanotribological characterization of molecularly thick lubricant films for applications to MEMS/NEMS by AFM. <i>Ultramicroscopy</i> , 2003, 97, 321-340.	0.8	264
39	Fluid Drag Reduction with Shark's Skin Riblet Inspired Microstructured Surfaces. <i>Advanced Functional Materials</i> , 2013, 23, 4507-4528.	7.8	261
40	Hierarchical roughness makes superhydrophobic states stable. <i>Microelectronic Engineering</i> , 2007, 84, 382-386.	1.1	258
41	Nanotribology and nanomechanics. <i>Wear</i> , 2005, 259, 1507-1531.	1.5	254
42	Nanoindentation hardness measurements using atomic force microscopy. <i>Applied Physics Letters</i> , 1994, 64, 1653-1655.	1.5	253
43	Wetting transition of water droplets on superhydrophobic patterned surfaces. <i>Scripta Materialia</i> , 2007, 57, 1057-1060.	2.6	253
44	Wetting, adhesion and friction of superhydrophobic and hydrophilic leaves and fabricated micro/nanopatterned surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225010.	0.7	250
45	Micromechanical and tribological characterization of doped single-crystal silicon and polysilicon films for microelectromechanical systems devices. <i>Journal of Materials Research</i> , 1997, 12, 54-63.	1.2	244
46	Biologically Inspired Surfaces: Broadening the Scope of Roughness**. <i>Advanced Functional Materials</i> , 2008, 18, 843-855.	7.8	244
47	Hierarchical roughness optimization for biomimetic superhydrophobic surfaces. <i>Ultramicroscopy</i> , 2007, 107, 969-979.	0.8	236
48	Multiscale friction mechanisms and hierarchical surfaces in nano- and bio-tribology. <i>Materials Science and Engineering Reports</i> , 2007, 58, 162-193.	14.8	235
49	An overview of additive manufacturing (3D printing) for microfabrication. <i>Microsystem Technologies</i> , 2017, 23, 1117-1124.	1.2	226
50	Theoretical investigation of the distance dependence of capillary and van der Waals forces in scanning force microscopy. <i>Physical Review B</i> , 2000, 62, 13667-13673.	1.1	222
51	Microtribological Characterization of Self-Assembled and Langmuir-Blodgett Monolayers by Atomic and Friction Force Microscopy. <i>Langmuir</i> , 1995, 11, 3189-3198.	1.6	215
52	Fluid drag reduction and efficient self-cleaning with rice leaf and butterfly wing bioinspired surfaces. <i>Nanoscale</i> , 2013, 5, 7685.	2.8	212
53	Effects of particle size, polishing pad and contact pressure in free abrasive polishing. <i>Wear</i> , 1996, 200, 281-295.	1.5	202
54	Blockchain for smart cities: A review of architectures, integration trends and future research directions. <i>Sustainable Cities and Society</i> , 2020, 61, 102360.	5.1	201

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55	Anti-fouling properties of microstructured surfaces bio-inspired by rice leaves and butterfly wings. <i>Journal of Colloid and Interface Science</i> , 2014, 419, 114-133.	5.0	198
56	Rice- and butterfly-wing effect inspired self-cleaning and low drag micro/nanopatterned surfaces in water, oil, and air flow. <i>Nanoscale</i> , 2014, 6, 76-96.	2.8	198
57	Bioinspired Structured Surfaces. <i>Langmuir</i> , 2012, 28, 1698-1714.	1.6	196
58	Patterned Nonadhesive Surfaces: Superhydrophobicity and Wetting Regime Transitions. <i>Langmuir</i> , 2008, 24, 1525-1533.	1.6	193
59	Generalized fractal analysis and its applications to engineering surfaces. <i>Wear</i> , 1995, 180, 17-34.	1.5	191
60	Development of AFM-based techniques to measure mechanical properties of nanoscale structures. <i>Sensors and Actuators A: Physical</i> , 2002, 101, 338-351.	2.0	189
61	Surface characterization and adhesion and friction properties of hydrophobic leaf surfaces. <i>Ultramicroscopy</i> , 2006, 106, 709-719.	0.8	187
62	Scale dependence of micro/nano-friction and adhesion of MEMS/NEMS materials, coatings and lubricants. <i>Nanotechnology</i> , 2004, 15, 1561-1570.	1.3	182
63	Nanotribological properties and mechanisms of alkylthiol and biphenyl thiol self-assembled monolayers studied by AFM. <i>Physical Review B</i> , 2001, 63, .	1.1	180
64	Measurement of fracture toughness of ultra-thin amorphous carbon films. <i>Thin Solid Films</i> , 1998, 315, 214-221.	0.8	179
65	A Numerical Three-Dimensional Model for the Contact of Rough Surfaces by Variational Principle. <i>Journal of Tribology</i> , 1996, 118, 33-42.	1.0	173
66	Atomic-scale and microscale friction studies of graphite and diamond using friction force microscopy. <i>Journal of Applied Physics</i> , 1994, 76, 5022-5035.	1.1	169
67	Transparent, wear-resistant, superhydrophobic and superoleophobic poly(dimethylsiloxane) (PDMS) surfaces. <i>Journal of Colloid and Interface Science</i> , 2017, 488, 118-126.	5.0	168
68	Dynamic Effects Induced Transition of Droplets on Biomimetic Superhydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 9208-9218.	1.6	167
69	Biomimetic structures for fluid drag reduction in laminar and turbulent flows. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 035104.	0.7	166
70	Enhanced production of a thermostable xylanase from <i>Streptomyces</i> sp. QG-11-3 and its application in biobleaching of eucalyptus kraft pulp. <i>Enzyme and Microbial Technology</i> , 2000, 27, 459-466.	1.6	163
71	Investigation of nanotribological properties of self-assembled monolayers with alkyl and biphenyl spacer chains (Invited). <i>Ultramicroscopy</i> , 2002, 91, 185-202.	0.8	161
72	Mechanically durable, superoleophobic coatings prepared by layer-by-layer technique for anti-smudge and oil-water separation. <i>Scientific Reports</i> , 2015, 5, 8701.	1.6	160

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73	Dual pH- and ammonia-vapor-responsive electrospun nanofibrous membranes for oil-water separations. <i>Journal of Membrane Science</i> , 2017, 537, 128-139.	4.1	157
74	Biomimetics inspired surfaces for drag reduction and oleophobicity/phobicity. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 66-84.	1.5	155
75	Microtribological studies of unlubricated and lubricated surfaces using atomic force/friction force microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1996, 14, 2378-2391.	0.9	150
76	AFM study of perfluoroalkylsilane and alkylsilane self-assembled monolayers for anti-stiction in MEMS/NEMS. <i>Ultramicroscopy</i> , 2005, 105, 176-188.	0.8	149
77	Friction model for the velocity dependence of nanoscale friction. <i>Nanotechnology</i> , 2005, 16, 2309-2324.	1.3	149
78	Durable Lotus-effect surfaces with hierarchical structure using micro- and nanosized hydrophobic silica particles. <i>Journal of Colloid and Interface Science</i> , 2012, 368, 584-591.	5.0	148
79	Self-cleaning, stain-resistant and anti-bacterial superhydrophobic cotton fabric prepared by simple immersion technique. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 66-74.	5.0	148
80	Effect of normal load on microscale friction measurements. <i>Thin Solid Films</i> , 1996, 278, 49-56.	0.8	147
81	Roughness-induced superhydrophobicity: a way to design non-adhesive surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225009.	0.7	144
82	Tribological studies of silicon for magnetic recording applications (invited). <i>Journal of Applied Physics</i> , 1994, 75, 5741-5746.	1.1	143
83	Thin-film friction and adhesion studies using atomic force microscopy. <i>Journal of Applied Physics</i> , 2000, 87, 1201-1210.	1.1	141
84	Use of phase imaging in atomic force microscopy for measurement of viscoelastic contrast in polymer nanocomposites and molecularly thick lubricant films. <i>Ultramicroscopy</i> , 2003, 97, 151-169.	0.8	137
85	Ultrathin Wear-Resistant Ionic Liquid Films for Novel MEMS/NEMS Applications. <i>Advanced Materials</i> , 2008, 20, 1194-1198.	11.1	137
86	Boundary slip and nanobubble study in micro/nanofluidics using atomic force microscopy. <i>Soft Matter</i> , 2010, 6, 29-66.	1.2	137
87	Nano- to microscale wear and mechanical characterization using scanning probe microscopy. <i>Wear</i> , 2001, 251, 1105-1123.	1.5	136
88	Recent Advances in Attacks, Technical Challenges, Vulnerabilities and Their Countermeasures in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , 2018, 98, 2037-2077.	1.8	134
89	Towards optimization of patterned superhydrophobic surfaces. <i>Journal of the Royal Society Interface</i> , 2007, 4, 643-648.	1.5	132
90	Lotus-Like Biomimetic Hierarchical Structures Developed by the Self-Assembly of Tubular Plant Waxes. <i>Langmuir</i> , 2009, 25, 1659-1666.	1.6	132

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91	Micro/nanomechanical characterization of ceramic films for microdevices. <i>Thin Solid Films</i> , 1999, 340, 210-217.	0.8	131
92	Nanostructures for superhydrophobicity and low adhesion. <i>Soft Matter</i> , 2008, 4, 1799.	1.2	131
93	Application of an alkaline and thermostable polygalacturonase from <i>Bacillus</i> sp. MG-cp-2 in degumming of ramie (<i>Boehmeria nivea</i>) and sunn hemp (<i>Crotalaria juncea</i>) bast fibres. <i>Process Biochemistry</i> , 2001, 36, 803-807.	1.8	130
94	Use of a nanoscale Kelvin probe for detecting wear precursors. <i>Review of Scientific Instruments</i> , 1998, 69, 3618-3624.	0.6	125
95	Frictional behavior of highly oriented pyrolytic graphite. <i>Journal of Applied Physics</i> , 1994, 76, 8117-8120.	1.1	124
96	Topography-induced contributions to friction forces measured using an atomic force/friction force microscope. <i>Journal of Applied Physics</i> , 2000, 88, 4825.	1.1	124
97	Micro/nanotribological studies of polysilicon and SiC films for MEMS applications. <i>Wear</i> , 1998, 217, 251-261.	1.5	121
98	Micro/nanomechanical and tribological characterization of ultrathin amorphous carbon coatings. <i>Journal of Materials Research</i> , 1999, 14, 2328-2337.	1.2	121
99	AFM-based nanotribological and electrical characterization of ultrathin wear-resistant ionic liquid films. <i>Journal of Colloid and Interface Science</i> , 2008, 317, 275-287.	5.0	121
100	Adhesion of multi-level hierarchical attachment systems in gecko feet. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 1213-1258.	1.4	119
101	Effect of scan size and surface roughness on microscale friction measurements. <i>Journal of Applied Physics</i> , 1997, 81, 2472-2479.	1.1	118
102	Atomic Force Microscopy of Magnetic Rigid Disks and Sliders and Its Applications to Tribology. <i>Journal of Tribology</i> , 1991, 113, 452-457.	1.0	116
103	Untangling blockchain technology: A survey on state of the art, security threats, privacy services, applications and future research directions. <i>Computers and Electrical Engineering</i> , 2021, 90, 106897.	3.0	116
104	The micro-meniscus effect of a thin liquid film on the static friction of rough surface contact. <i>Journal Physics D: Applied Physics</i> , 1996, 29, 163-178.	1.3	114
105	Bioadhesion: a review of concepts and applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2321-2347.	1.6	114
106	Micromechanical properties of amorphous carbon coatings deposited by different deposition techniques. <i>Thin Solid Films</i> , 1995, 270, 391-398.	0.8	113
107	Measurements and analysis of surface potential change during wear of single-crystal silicon (100) at ultralow loads using Kelvin probe microscopy. <i>Applied Surface Science</i> , 2000, 157, 373-381.	3.1	113
108	Nanomechanical characterization of human hair using nanoindentation and SEM. <i>Ultramicroscopy</i> , 2005, 105, 248-266.	0.8	112

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109	Surface modification of silicon and polydimethylsiloxane surfaces with vapor-phase-deposited ultrathin fluorosilane films for biomedical nanodevices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2006, 24, 1197-1202.	0.9	112
110	Bioinspired, roughness-induced, water and oil super-philic and super-phobic coatings prepared by adaptable layer-by-layer technique. <i>Scientific Reports</i> , 2015, 5, 14030.	1.6	112
111	Unification of Blockchain and Internet of Things (BloT): requirements, working model, challenges and future directions. <i>Wireless Networks</i> , 2021, 27, 55-90.	2.0	112
112	Atomic-Scale Friction Measurements Using Friction Force Microscopy: Part II—Application to Magnetic Media. <i>Journal of Tribology</i> , 1994, 116, 389-396.	1.0	111
113	Nanoscale tribophysics and tribomechanics. <i>Wear</i> , 1999, 225-229, 465-492.	1.5	111
114	Contact Analysis of Non-Gaussian Surfaces for Minimum Static and Kinetic Friction and Wear. <i>Tribology Transactions</i> , 1996, 39, 890-898.	1.1	109
115	Bioinspired superoleophobic/superhydrophilic functionalized cotton for efficient separation of immiscible oil-water mixtures and oil-water emulsions. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 123-130.	5.0	109
116	Micro/nanotribology of ultra-thin hard amorphous carbon coatings using atomic force/friction force microscopy. <i>Wear</i> , 1999, 225-229, 678-689.	1.5	108
117	Tribological studies of chromium oxide films for magnetic recording applications. <i>Thin Solid Films</i> , 1997, 311, 67-80.	0.8	107
118	Scale effects in friction using strain gradient plasticity and dislocation-assisted sliding (microslip). <i>Acta Materialia</i> , 2003, 51, 4331-4345.	3.8	107
119	Adhesion analysis of multi-level hierarchical attachment system contacting with a rough surface. <i>Journal of Adhesion Science and Technology</i> , 2007, 21, 1-20.	1.4	105
120	Biomimetic hierarchical structure for self-cleaning. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	104
121	Adhesion analysis of two-level hierarchical morphology in natural attachment systems for 'smart adhesion'. <i>Journal of Adhesion Science and Technology</i> , 2006, 20, 1475-1491.	1.4	103
122	Nanoscale characterization of human hair and hair conditioners. <i>Progress in Materials Science</i> , 2008, 53, 585-710.	16.0	103
123	Material removal mechanisms of single-crystal silicon on nanoscale and at ultralow loads. <i>Wear</i> , 1998, 223, 66-78.	1.5	102
124	Production and partial purification and characterization of a thermo-alkali stable polygalacturonase from <i>Bacillus</i> sp. MG-cp-2. <i>Process Biochemistry</i> , 2000, 36, 467-473.	1.8	100
125	Structure and mechanical properties of beetle wings: a review. <i>RSC Advances</i> , 2012, 2, 12606.	1.7	100
126	Wear-resistant rose petal-effect surfaces with superhydrophobicity and high droplet adhesion using hydrophobic and hydrophilic nanoparticles. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 182-188.	5.0	100

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127	Morphological, antimicrobial, durability, and physical properties of untreated and treated textiles using silver-nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 436, 975-989.	2.3	100
128	Shark skin inspired low-drag microstructured surfaces in closed channel flow. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 384-396.	5.0	100
129	Fullerene (C ₆₀) Films for Solid Lubrication. <i>Tribology Transactions</i> , 1993, 36, 573-580.	1.1	99
130	Adhesion and Friction Studies of Silicon and Hydrophobic and Low Friction Films and Investigation of Scale Effects. <i>Journal of Tribology</i> , 2004, 126, 583-590.	1.0	99
131	Smart polymer brushes and their emerging applications. <i>RSC Advances</i> , 2012, 2, 8557.	1.7	99
132	An internet of health thingsâ€driven deep learning framework for detection and classification of skin cancer using transfer learning. <i>Transactions on Emerging Telecommunications Technologies</i> , 2021, 32, e3963.	2.6	99
133	Mechanical and tribological properties of hard carbon coatings for magnetic recording heads. <i>Wear</i> , 1995, 190, 110-122.	1.5	98
134	Chemotaxis of a <i>Ralstonia</i> sp. SJ98 toward Different Nitroaromatic Compounds and Their Degradation. <i>Biochemical and Biophysical Research Communications</i> , 2000, 269, 117-123.	1.0	97
135	Friction and wear studies of human hair and skin. <i>Wear</i> , 2005, 259, 1012-1021.	1.5	97
136	Bioinspired materials for water supply and management: water collection, water purification and separation of water from oil. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160135.	1.6	97
137	Micro/nanotribology and its applications to magnetic storage devices and MEMS. <i>Tribology International</i> , 1995, 28, 85-96.	3.0	96
138	Localized surface elasticity measurements using an atomic force microscope. <i>Review of Scientific Instruments</i> , 1997, 68, 4498-4505.	0.6	96
139	Rice and Butterfly Wing Effect Inspired Low Drag and Antifouling Surfaces: A Review. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2015, 40, 1-37.	6.8	96
140	Kinetics of Biodegradation of p-Nitrophenol by Different Bacteria. <i>Biochemical and Biophysical Research Communications</i> , 2000, 274, 626-630.	1.0	95
141	Mechanical property measurements of nanoscale structures using an atomic force microscope. <i>Ultramicroscopy</i> , 2002, 91, 111-118.	0.8	95
142	Adhesion and friction studies of microelectromechanical systems/nanoelectromechanical systems materials using a novel microtriboapparatus. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2003, 21, 1528-1538.	0.9	95
143	Nanotribological characterization of self-assembled monolayers deposited on silicon and aluminium substrates. <i>Nanotechnology</i> , 2005, 16, 1549-1558.	1.3	94
144	Green tribology: principles, research areas and challenges. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4677-4694.	1.6	94

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145	Tribological properties of polished diamond films. <i>Journal of Applied Physics</i> , 1993, 74, 4174-4180.	1.1	93
146	Micro/nanoscale studies of boundary layers of liquid lubricants for magnetic disks. <i>Journal of Applied Physics</i> , 1996, 79, 8071-8075.	1.1	93
147	Fatigue studies of nanoscale structures for MEMS/NEMS applications using nanoindentation techniques. <i>Surface and Coatings Technology</i> , 2003, 163-164, 521-526.	2.2	92
148	Nanotribological characterization of human hair and skin using atomic force microscopy. <i>Ultramicroscopy</i> , 2005, 105, 155-175.	0.8	92
149	Static friction and surface roughness studies of surface micromachined electrostatic micromotors using an atomic force/friction force microscope. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1777-1785.	0.9	91
150	Bonding, degradation, and environmental effects on novel perfluoropolyether lubricants. <i>Wear</i> , 2005, 259, 1352-1361.	1.5	91
151	Comprehensive model for scale effects in friction due to adhesion and two- and three-body deformation (plowing). <i>Acta Materialia</i> , 2004, 52, 2461-2474.	3.8	90
152	Durable, superoleophobic polymer-nanoparticle composite surfaces with re-entrant geometry via solvent-induced phase transformation. <i>Scientific Reports</i> , 2016, 6, 21048.	1.6	89
153	Bioinspired self-healing materials: lessons from nature. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 907-935.	1.5	86
154	Sublimed C60films for tribology. <i>Applied Physics Letters</i> , 1993, 62, 3253-3255.	1.5	85
155	Development of a continuous microscratch technique in an atomic force microscope and its application to study scratch resistance of ultrathin hard amorphous carbon coatings. <i>Journal of Materials Research</i> , 2001, 16, 437-445.	1.2	83
156	Phase contrast imaging of nanocomposites and molecularly thick lubricant films in magnetic media. <i>Nanotechnology</i> , 2003, 14, 886-895.	1.3	83
157	Micro-nanotribological study of perfluorosilane SAMs for antistiction and low wear. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 2005, 23, 995.	1.6	83
158	Theory, fabrication and applications of microfluidic and nanofluidic biosensors. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2269-2303.	1.6	82
159	Evaluation of fracture toughness of ultra-thin amorphous carbon coatings deposited by different deposition techniques. <i>Thin Solid Films</i> , 1999, 355-356, 330-336.	0.8	81
160	Meniscus and viscous forces during separation of hydrophilic and hydrophobic surfaces with liquid-mediated contacts. <i>Materials Science and Engineering Reports</i> , 2008, 61, 78-106.	14.8	81
161	The adhesion model considering capillarity for gecko attachment system. <i>Journal of the Royal Society Interface</i> , 2008, 5, 319-327.	1.5	80
162	Biomass production and distribution of roots in three stands of <i>Populus deltoides</i> . <i>Forest Ecology and Management</i> , 1994, 65, 135-147.	1.4	79

#	ARTICLE	IF	CITATIONS
163	Chemotaxis and Biodegradation of 3-Methyl- 4-Nitrophenol by <i>Ralstonia</i> sp. SJ98. <i>Biochemical and Biophysical Research Communications</i> , 2000, 275, 129-133.	1.0	78
164	Scale effects in dry and wet friction, wear, and interface temperature. <i>Nanotechnology</i> , 2004, 15, 749-761.	1.3	78
165	Micro/nanotribological characterization of PDMS and PMMA used for BioMEMS/NEMS applications. <i>Ultramicroscopy</i> , 2005, 105, 238-247.	0.8	78
166	TNF-alpha gene polymorphism and TNF-alpha levels in obese Asian Indians with obstructive sleep apnea. <i>Respiratory Medicine</i> , 2009, 103, 386-392.	1.3	78
167	Facile approach to develop durable and reusable superhydrophobic/superoleophilic coatings for steel mesh surfaces. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 50-57.	5.0	78
168	In situ tensile deformation characterization of human hair with atomic force microscopy. <i>Acta Materialia</i> , 2008, 56, 774-781.	3.8	77
169	Thermodynamics of surface degradation, self-organization and self-healing for biomimetic surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1607-1627.	1.6	77
170	Normal and Lateral Force Calibration Techniques for AFM Cantilevers. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2010, 35, 73-104.	6.8	77
171	Energy transitions in superhydrophobicity: low adhesion, easy flow and bouncing. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 395005.	0.7	76
172	Self-healing of voids in the wax coating on plant surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1673-1688.	1.6	76
173	Wear-Resistant and Antismudge Superoleophobic Coating on Polyethylene Terephthalate Substrate Using SiO ₂ Nanoparticles. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 743-755.	4.0	75
174	Mechanically durable superoleophobic aluminum surfaces with microstep and nanoreticula hierarchical structure for self-cleaning and anti-smudge properties. <i>Journal of Colloid and Interface Science</i> , 2016, 461, 273-284.	5.0	75
175	Tribological performance of magnetic thin-film glass disks: its relation to surface roughness and lubricant structure and its thickness. <i>Wear</i> , 1995, 190, 60-75.	1.5	74
176	Micromechanical and tribological characterization of hard amorphous carbon coatings as thin as 5 nm for magnetic recording heads. <i>Wear</i> , 1998, 220, 51-58.	1.5	74
177	A Meniscus Model for Optimization of Texturing and Liquid Lubrication of Magnetic Thin-Film Rigid Disks. <i>Tribology Transactions</i> , 1995, 38, 201-212.	1.1	72
178	Scanning and transmission electron microscopies of single-crystal silicon microworn/machined using atomic force microscopy. <i>Journal of Materials Research</i> , 1997, 12, 3219-3224.	1.2	72
179	Multiscale effects and capillary interactions in functional biomimetic surfaces for energy conversion and green engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1511-1539.	1.6	72
180	A comprehensive kinetic meniscus model for prediction of long-term static friction. <i>Journal of Applied Physics</i> , 1999, 86, 4649-4656.	1.1	71

#	ARTICLE	IF	CITATIONS
181	Instrumentation for direct, low frequency scanning capacitance microscopy, and analysis of position dependent stray capacitance. Review of Scientific Instruments, 2002, 73, 3525-3533.	0.6	71
182	Morphology and adhesion of biomolecules on silicon based surfaces. Acta Biomaterialia, 2005, 1, 327-341.	4.1	71
183	Boundary Slip Study on Hydrophilic, Hydrophobic, and Superhydrophobic Surfaces with Dynamic Atomic Force Microscopy. Langmuir, 2009, 25, 8117-8121.	1.6	71
184	Neutron depth profiling technique for studying aging in Li-ion batteries. Electrochimica Acta, 2011, 56, 4735-4743.	2.6	71
185	Silver Nanoparticle Incorporated composite nanofibers for potential wound dressing applications. Journal of Applied Polymer Science, 2015, 132, .	1.3	71
186	Characterization of chemical bonding and physical characteristics of diamond-like amorphous carbon and diamond films. Journal of Materials Research, 1992, 7, 404-410.	1.2	70
187	Title is missing!. , 1998, 20, 157-159.		70
188	Investigation of scale effects and directionality dependence on friction and adhesion of human hair using AFM and macroscale friction test apparatus. Ultramicroscopy, 2006, 106, 720-734.	0.8	70
189	Adhesion, friction and wear characterization of skin and skin cream using atomic force microscope. Colloids and Surfaces B: Biointerfaces, 2010, 76, 1-15.	2.5	70
190	Kelvin probe microscopy measurements of surface potential change under wear at low loads. Wear, 2000, 244, 104-117.	1.5	69
191	Topography and phase imaging using the torsional resonance mode. Nanotechnology, 2004, 15, 731-742.	1.3	69
192	Adhesion and friction properties of polymers in microfluidic devices. Nanotechnology, 2005, 16, 467-478.	1.3	69
193	Fabrication and characterization of the hierarchical structure for superhydrophobicity and self-cleaning. Ultramicroscopy, 2009, 109, 1029-1034.	0.8	69
194	Security vulnerabilities, attacks and countermeasures in wireless sensor networks at various layers of OSI reference model: A survey. , 2017, , .		69
195	Simulation of dynamic modes of atomic force microscopy using a 3D finite element model. Ultramicroscopy, 2006, 106, 847-873.	0.8	68
196	Designing bioinspired superoleophobic surfaces. APL Materials, 2016, 4, .	2.2	68
197	Modeling and optimization of shark-inspired riblet geometries for low drag applications. Journal of Colloid and Interface Science, 2016, 474, 206-215.	5.0	68
198	Nanoindentation, microscratch, friction and wear studies of coatings for contact recording applications. Wear, 1995, 181-183, 743-758.	1.5	67

#	ARTICLE	IF	CITATIONS
199	AFM studies of environmental effects on nanomechanical properties and cellular structure of human hair. <i>Ultramicroscopy</i> , 2006, 106, 755-764.	0.8	67
200	Adhesion and friction of a multiwalled carbon nanotube sliding against single-walled carbon nanotube. <i>Physical Review B</i> , 2008, 77, .	1.1	67
201	Nanotribological characterization of perfluoroalkylphosphonate self-assembled monolayers deposited on aluminum-coated silicon substrates. <i>Microsystem Technologies</i> , 2006, 12, 588-596.	1.2	66
202	The structure and mechanical properties of dragonfly wings and their role on flyability. <i>Comptes Rendus - Mecanique</i> , 2012, 340, 3-17.	2.1	66
203	Fluid flow analysis of a shark-inspired microstructure. <i>Journal of Fluid Mechanics</i> , 2014, 756, 5-29.	1.4	66
204	A new three-dimensional non-contact digital optical profiler. <i>Wear</i> , 1988, 122, 301-312.	1.5	65
205	Surface characterization and friction of a bio-inspired reversible adhesive tape. <i>Microsystem Technologies</i> , 2006, 13, 71-78.	1.2	65
206	Functional characterization of plant-based protein to determine its quality for food applications. <i>Food Hydrocolloids</i> , 2022, 123, 106986.	5.6	65
207	Determination of stress intensity factor in orthotropic composite materials using strain gages. <i>Engineering Fracture Mechanics</i> , 1989, 32, 469-477.	2.0	64
208	Effect of stiffness of multi-level hierarchical attachment system on adhesion enhancement. <i>Ultramicroscopy</i> , 2007, 107, 902-912.	0.8	63
209	Mechanically durable, superomniphobic coatings prepared by layer-by-layer technique for self-cleaning and anti-smudge. <i>Journal of Colloid and Interface Science</i> , 2015, 456, 210-218.	5.0	63
210	Man-in-the-middle attack in wireless and computer networking " A review. , 2017, , .		63
211	Optimization of bioinspired conical surfaces for water collection from fog. <i>Journal of Colloid and Interface Science</i> , 2019, 551, 26-38.	5.0	63
212	Nanotribology and nanomechanics in nano/biotechnology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1499-1537.	1.6	62
213	Nanotribological characterization of digital micromirror devices using an atomic force microscope. <i>Ultramicroscopy</i> , 2004, 100, 391-412.	0.8	61
214	Stochastic model for metastable wetting of roughness-induced superhydrophobic surfaces. <i>Microsystem Technologies</i> , 2006, 12, 231-237.	1.2	61
215	Wetting of rough three-dimensional superhydrophobic surfaces. <i>Microsystem Technologies</i> , 2006, 12, 273-281.	1.2	61
216	Dual-layered-coated mechanically-durable superomniphobic surfaces with anti-smudge properties. <i>Journal of Colloid and Interface Science</i> , 2013, 409, 227-236.	5.0	61

#	ARTICLE	IF	CITATIONS
217	Bioinspired micro/nanostructured surfaces for oil drag reduction in closed channel flow. <i>Soft Matter</i> , 2013, 9, 1620-1635.	1.2	61
218	The coupling of surface charge and boundary slip at the solid-liquid interface and their combined effect on fluid drag: A review. <i>Journal of Colloid and Interface Science</i> , 2015, 454, 152-179.	5.0	61
219	Nanoindentation studies of sublimed fullerene films using atomic force microscopy. <i>Journal of Materials Research</i> , 1993, 8, 3019-3022.	1.2	59
220	Nanotribology, nanomechanics and nanomaterials characterization. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1351-1381.	1.6	59
221	Atomic force microscopy measurement of boundary slip on hydrophilic, hydrophobic, and superhydrophobic surfaces. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2009, 27, 754-760.	0.9	59
222	Modification of paper using polyhydroxybutyrate to obtain biomimetic superhydrophobic substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2013, 416, 51-55.	2.3	59
223	Stress in silicon dioxide films deposited using chemical vapor deposition techniques and the effect of annealing on these stresses. <i>Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , 1990, 8, 1068.	1.6	57
224	Microtribological studies of doped single-crystal silicon and polysilicon films for MEMS devices. <i>Sensors and Actuators A: Physical</i> , 1996, 57, 91-102.	2.0	57
225	A new atomic force microscopy based technique for studying nanoscale friction at high sliding velocities. <i>Journal Physics D: Applied Physics</i> , 2005, 38, 764-773.	1.3	57
226	Nasal saline irrigation in children: A study of compliance and tolerance. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2012, 76, 409-413.	0.4	57
227	Introduction to Nanotechnology. <i>Springer Handbooks</i> , 2017, , 1-19.	0.3	57
228	Fabrication techniques for bioinspired, mechanically-durable, superliquiphobic surfaces for water, oil, and surfactant repellency. <i>Advances in Colloid and Interface Science</i> , 2017, 241, 1-23.	7.0	56
229	Thermal diffusivity study of aged Li-ion batteries using flash method. <i>Journal of Power Sources</i> , 2010, 195, 872-876.	4.0	55
230	Routing Protocols in Wireless Sensor Networks. <i>Studies in Computational Intelligence</i> , 2019, , 215-248.	0.7	55
231	Nanoindentation measurements of amorphous carbon coatings. <i>Journal of Materials Research</i> , 1997, 12, 2707-2714.	1.2	54
232	Investigation of the adhesion, friction, and wear properties of biphenyl thiol self-assembled monolayers by atomic force microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2001, 19, 1234-1240.	0.9	54
233	Wetting properties of human hair by means of dynamic contact angle measurement. <i>Journal of Applied Polymer Science</i> , 2006, 102, 5255-5265.	1.3	54
234	On the reliability of electrostatic NEMS/MEMS devices: Review of present knowledge on the dielectric charging and stiction failure mechanisms and novel characterization methodologies. <i>Microelectronics Reliability</i> , 2011, 51, 1810-1818.	0.9	54

#	ARTICLE	IF	CITATIONS
235	Nano/picoindentation measurements on single-crystal aluminum using modified atomic force microscopy. <i>Materials Letters</i> , 1996, 29, 221-227.	1.3	53
236	A Numerical Three-Dimensional Model for the Contact of Layered Elastic/Plastic Solids With Rough Surfaces by a Variational Principle. <i>Journal of Tribology</i> , 2001, 123, 330-342.	1.0	53
237	Depth-sensing indentation of nanomaterials and nanostructures. <i>Materials Characterization</i> , 2013, 78, 1-20.	1.9	53
238	In situ electrochemical studies of lithium-ion battery cathodes using atomic force microscopy. <i>Journal of Power Sources</i> , 2014, 249, 373-384.	4.0	53
239	Why re-entrant surface topography is needed for robust oleophobicity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160185.	1.6	53
240	Materials characterization and effect of purity and ion implantation on the friction and wear of sublimed fullerene films. <i>Journal of Materials Research</i> , 1994, 9, 2823-2838.	1.2	52
241	Micro/nanomechanical and tribological studies of bulk and thin-film materials used in magnetic recording heads. <i>Thin Solid Films</i> , 2001, 398-399, 313-319.	0.8	52
242	Finite-element vibration analysis of tapping-mode atomic force microscopy in liquid. <i>Ultramicroscopy</i> , 2007, 107, 1095-1104.	0.8	52
243	Nanotribological characterization of fluoropolymer thin films for biomedical micro/nanoelectromechanical system applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2005, 23, 804-810.	0.9	51
244	Nanomanufacturing of bioinspired surfaces. <i>Tribology International</i> , 2019, 129, 67-74.	3.0	51
245	Blockchain Technology-Future Of IoT: Including Structure, Limitations And Various Possible Attacks. , 2019, , .		51
246	Electrical Measurement Techniques in Atomic Force Microscopy. <i>Critical Reviews in Solid State and Materials Sciences</i> , 2010, 35, 38-51.	6.8	50
247	Fatty-acid binding protein 4 gene polymorphisms and plasma levels in children with obstructive sleep apnea. <i>Sleep Medicine</i> , 2011, 12, 666-671.	0.8	50
248	Multi-Scale Characterization Studies of Aged Li-Ion Large Format Cells for Improved Performance: An Overview. <i>Journal of the Electrochemical Society</i> , 2013, 160, A2111-A2154.	1.3	50
249	Bioarchitecture: bioinspired art and architectureâ€™a perspective. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160192.	1.6	50
250	A surface topography-independent friction measurement technique using torsional resonance mode in an AFM. <i>Nanotechnology</i> , 2004, 15, 923-935.	1.3	49
251	Scale Effect in Dry Friction During Multiple-Asperity Contact. <i>Journal of Tribology</i> , 2005, 127, 37-46.	1.0	49
252	Nanotribological and nanomechanical characterization of human hair using a nanoscratch technique. <i>Ultramicroscopy</i> , 2006, 106, 742-754.	0.8	49

#	ARTICLE	IF	CITATIONS
253	Surface self-organization: From wear to self-healing in biological and technical surfaces. Applied Surface Science, 2010, 256, 3982-3987.	3.1	49
254	Fabrication and characterization of hierarchical nanostructured smart adhesion surfaces. Journal of Colloid and Interface Science, 2012, 372, 231-238.	5.0	49
255	Fabrication of bioinspired, self-cleaning superhydrophilic/hydrophobic stainless steel using different pathways. Journal of Colloid and Interface Science, 2018, 518, 284-297.	5.0	49
256	In situ microscopic surface characterization studies of polymeric thin films during tensile deformation using atomic force microscopy. Journal of Materials Research, 2001, 16, 844-855.	1.2	48
257	Development of a nanoscale fatigue measurement technique and its application to ultrathin amorphous carbon coatings. Scripta Materialia, 2002, 47, 473-479.	2.6	48
258	Degradation Mechanisms and Environmental Effects on Perfluoropolyether, Self-Assembled Monolayers, and Diamondlike Carbon Films. Langmuir, 2005, 21, 2391-2399.	1.6	48
259	Nanoindents produced by nanobubbles on ultrathin polystyrene films in water. Nanotechnology, 2009, 20, 045301.	1.3	48
260	The study of surface wetting, nanobubbles and boundary slip with an applied voltage: A review. Beilstein Journal of Nanotechnology, 2014, 5, 1042-1065.	1.5	48
261	Security vulnerabilities and countermeasures against jamming attacks in Wireless Sensor Networks: A survey. , 2017, , .		48
262	Ultraviolet-driven switchable superhydrophobic/superhydrophilic coating for separation of oil-water mixtures and emulsions and water purification. Journal of Colloid and Interface Science, 2019, 557, 395-407.	5.0	48
263	Phase behavior of capillary bridges: towards nanoscale water phase diagram. Physical Chemistry Chemical Physics, 2008, 10, 2137.	1.3	47
264	The Hydraulic Mechanism of the Unfolding of Hind Wings in <i>Dorcus titanus platymelus</i> (Order: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 30	1.8	47
265	Requirements, Protocols, and Security Challenges in Wireless Sensor Networks: An Industrial Perspective. , 2020, , 683-713.		47
266	Effect of bonded lubricant films on the tribological performance of magnetic thin-film rigid disks. Wear, 1996, 202, 50-59.	1.5	46
267	Nanorheology and boundary slip in confined liquids using atomic force microscopy. Journal of Physics Condensed Matter, 2008, 20, 315201.	0.7	46
268	Nanotribological and nanomechanical properties of skin with and without cream treatment using atomic force microscopy and nanoindentation. Journal of Colloid and Interface Science, 2012, 367, 1-33.	5.0	46
269	Effect of amino acids on production of xylanase and pectinase from <i>Streptomyces</i> sp. QG-11-3. World Journal of Microbiology and Biotechnology, 2000, 16, 211-213.	1.7	45
270	A numerical three-dimensional contact model for rough, multilayered elastic/plastic solid surfaces. Wear, 2005, 259, 1408-1423.	1.5	45

#	ARTICLE	IF	CITATIONS
271	The effect of riblets in rectangular duct flow. <i>Applied Surface Science</i> , 2012, 258, 3936-3947.	3.1	45
272	Depth-sensing nanoindentation measurement techniques and applications. <i>Microsystem Technologies</i> , 2017, 23, 1595-1649.	1.2	45
273	Friction and wear studies of magnetic thin-film rigid disks with glass-ceramic, glass and aluminum-magnesium substrates. <i>Wear</i> , 1995, 190, 44-59.	1.5	44
274	Effect of ethnicity and treatments on in situ tensile response and morphological changes of human hair characterized by atomic force microscopy. <i>Acta Materialia</i> , 2008, 56, 3585-3597.	3.8	44
275	Effect of MoS ₂ and WS ₂ Nanotubes on Nanofriction and Wear Reduction in Dry and Liquid Environments. <i>Tribology Letters</i> , 2013, 49, 323-339.	1.2	44
276	Lubrication performance and mechanisms of Mg/Al-, Zn/Al-, and Zn/Mg/Al-layered double hydroxide nanoparticles as lubricant additives. <i>Applied Surface Science</i> , 2016, 378, 308-319.	3.1	44
277	IoT Enabled Technology in Secured Healthcare: Applications, Challenges and Future Directions. <i>Studies in Systems, Decision and Control</i> , 2021, , 25-48.	0.8	44
278	Microtribological studies of Al ₂ O ₃ , Al ₂ O ₃ -TiC, polycrystalline and single-crystal Mn-Zn ferrite, and SiC head slider materials. <i>Wear</i> , 1996, 202, 110-122.	1.5	43
279	Tensile and dynamic mechanical properties of improved ultrathin polymeric films. <i>Journal of Applied Polymer Science</i> , 2002, 83, 2225-2244.	1.3	43
280	Atomic force microscopy dynamic modes: modeling and applications. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225012.	0.7	43
281	Improved Enzyme Catalytic Characteristics upon Glutaraldehyde Cross-Linking of Alginate Entrapped Xylanase Isolated from <i>Aspergillus flavus</i> MTCC 9390. <i>Enzyme Research</i> , 2015, 2015, 1-9.	1.8	43
282	Transparent, superhydrophobic, and wear-resistant surfaces using deep reactive ion etching on PDMS substrates. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 82-90.	5.0	43
283	E^2SR^2 : An acknowledgement-based mobile sink routing protocol with rechargeable sensors for wireless sensor networks. <i>Wireless Networks</i> , 2019, 25, 2697-2721.	2.0	43
284	Tribology of Ion Bombarded Silicon for Micromechanical Applications. <i>Journal of Tribology</i> , 1993, 115, 392-399.	1.0	42
285	Friction and wear studies of various head materials and magnetic tapes in a linear mode accelerated test using a new nano-scratch wear measurement technique. <i>Wear</i> , 1995, 190, 1-15.	1.5	42
286	Meniscus and viscous forces during normal separation of liquid-mediated contacts. <i>Nanotechnology</i> , 2007, 18, 465704.	1.3	42
287	Quantification of Surface Charge Density and Its Effect on Boundary Slip. <i>Langmuir</i> , 2013, 29, 6953-6963.	1.6	42
288	Continuous stiffness measurement and creep behavior of composite magnetic tapes. <i>Thin Solid Films</i> , 2000, 377-378, 401-406.	0.8	41

#	ARTICLE	IF	CITATIONS
289	Nanoscale adhesion, friction and wear studies of biomolecules on silane polymer-coated silica and alumina-based surfaces. <i>Journal of the Royal Society Interface</i> , 2009, 6, 719-733.	1.5	41
290	Improved Nanobubble Immobility Induced by Surface Structures on Hydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 9328-9336.	1.6	41
291	Tribological performance of thin film amorphous carbon overcoats for magnetic recording rigid disks in various environments. <i>Surface and Coatings Technology</i> , 1994, 68-69, 644-650.	2.2	40
292	Integrative miRNA-mRNA Profiling of Adipose Tissue Unravels Transcriptional Circuits Induced by Sleep Fragmentation. <i>PLoS ONE</i> , 2012, 7, e37669.	1.1	40
293	Bioinspired water collection methods to supplement water supply. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190119.	1.6	40
294	A Comprehensive survey on Blockchain: Working, security analysis, privacy threats and potential applications. , 2019, , .		40
295	Evaluation of Nutritional, Phytochemical, and Mineral Composition of Selected Medicinal Plants for Therapeutic Uses from Cold Desert of Western Himalaya. <i>Plants</i> , 2021, 10, 1429.	1.6	40
296	Real contact area measurements on magnetic rigid disks. <i>Wear</i> , 1990, 137, 41-50.	1.5	39
297	The sliding friction and wear behavior of single-crystal, polycrystalline and oxidized silicon. <i>Wear</i> , 1994, 171, 25-32.	1.5	39
298	Surface roughness analysis of glass-ceramic substrates and finished magnetic disks, and Ni-P coated Al-Mg and glass substrates. <i>Wear</i> , 1995, 190, 89-109.	1.5	39
299	Scanning capacitance microscopy for thin film measurements. <i>Nanotechnology</i> , 2006, 17, 1484-1491.	1.3	39
300	Surface potential measurement of aged Li-ion batteries using Kelvin probe microscopy. <i>Journal of Power Sources</i> , 2011, 196, 1508-1512.	4.0	39
301	AFM characterization of nanobubble formation and slip condition in oxygenated and electrokinetically altered fluids. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 105-116.	5.0	39
302	Metagenomics: Retrospect and Prospects in High Throughput Age. <i>Biotechnology Research International</i> , 2015, 2015, 1-13.	1.4	39
303	Friction, wear and mechanical behavior of nano-objects on the nanoscale. <i>Materials Science and Engineering Reports</i> , 2015, 95, 1-43.	14.8	39
304	Artificial Intelligence and Machine Learning based Legal Application: The State-of-the-Art and Future Research Trends. , 2019, , .		39
305	Passive water harvesting by desert plants and animals: lessons from nature. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190444.	1.6	39
306	The role of environment in the friction of diamond for magnetic recording head applications. <i>Wear</i> , 1992, 153, 79-89.	1.5	38

#	ARTICLE	IF	CITATIONS
307	Friction and wear studies of silicon in sliding contact with thin-film magnetic rigid disks. Journal of Materials Research, 1993, 8, 1611-1628.	1.2	38
308	Nanotribological effects of hair care products and environment on human hair using atomic force microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 1034-1045.	0.9	38
309	Surface characterization of human hair using tapping mode atomic force microscopy and measurement of conditioner thickness distribution. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2006, 24, 1258-1269.	0.9	38
310	Engineering functional protein interfaces for immunologically modified field effect transistor (ImmunoFET) by molecular genetic means. Journal of the Royal Society Interface, 2008, 5, 123-127.	1.5	38
311	Molecularly thick dicationic ionic liquid films for nanolubrication. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2009, 27, 986-995.	0.9	38
312	Propensity and geometrical distribution of surface nanobubbles: effect of electrolyte, roughness, pH, and substrate bias. Soft Matter, 2011, 7, 9184.	1.2	38
313	Durability studies of micro/nanoelectromechanical systems materials, coatings and lubricants at high sliding velocities (up to 10mm ² s) using a modified atomic force microscope. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 830-835.	0.9	37
314	Microfabrication and nanomechanical characterization of polymer microelectromechanical system for biological applications. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2005, 23, 811-819.	0.9	37
315	Nanoscale adhesion, friction and wear studies of biomolecules on silicon based surfaces. Acta Biomaterialia, 2006, 2, 39-49.	4.1	37
316	Adhesion and friction between individual carbon nanotubes measured using force-versus-distance curves in atomic force microscopy. Physical Review B, 2008, 78, .	1.1	37
317	Bioadhesion of various proteins on random, diblock and triblock copolymer surfaces and the effect of pH conditions. Journal of the Royal Society Interface, 2011, 8, 630-640.	1.5	37
318	Role of surface charge on boundary slip in fluid flow. Journal of Colloid and Interface Science, 2013, 392, 117-121.	5.0	37
319	Architectural Model of Security Threats & their Countermeasures in IoT. , , .		37
320	Mechanochemical robust, magnetic-driven, superhydrophobic 3D porous materials for contaminated oil recovery. Journal of Colloid and Interface Science, 2019, 538, 25-33.	5.0	37
321	Design of water harvesting towers and projections for water collection from fog and condensation. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190440.	1.6	37
322	Microtribology of PET Polymeric Films. Tribology Transactions, 1995, 38, 119-127.	1.1	36
323	Nanomechanical characterization of multilayered thin film structures for digital micromirror devices. Ultramicroscopy, 2004, 100, 375-389.	0.8	36
324	Surface potential and resistance measurements for detecting wear of chemically-bonded and unbonded molecularly-thick perfluoropolyether lubricant films using atomic force microscopy. Journal of Colloid and Interface Science, 2007, 315, 261-269.	5.0	36

#	ARTICLE	IF	CITATIONS
325	Scanning spreading resistance characterization of aged Li-ion batteries using atomic force microscopy. <i>Scripta Materialia</i> , 2009, 60, 933-936.	2.6	36
326	Effect of heat shock protein 70 polymorphism on thermotolerance in Tharparkar cattle. <i>Veterinary World</i> , 2016, 9, 113-117.	0.7	36
327	Measurement of dynamic material behavior under nearly uniaxial strain conditions. <i>International Journal of Solids and Structures</i> , 1978, 14, 739-753.	1.3	35
328	Contact analysis of three-dimensional rough surfaces under frictionless and frictional contact. <i>Wear</i> , 1996, 200, 265-280.	1.5	35
329	New technique for studying nanoscale friction at sliding velocities up to 200mm/s using atomic force microscope. <i>Review of Scientific Instruments</i> , 2006, 77, 103705.	0.6	35
330	Velocity dependence of nanoscale wear in atomic force microscopy. <i>Applied Physics Letters</i> , 2007, 91, .	1.5	35
331	Slip-length measurement of confined air flow using dynamic atomic force microscopy. <i>Physical Review E</i> , 2008, 78, 027302.	0.8	35
332	Study of the Relationship between Boundary Slip and Nanobubbles on a Smooth Hydrophobic Surface. <i>Langmuir</i> , 2016, 32, 11287-11294.	1.6	35
333	Post-harvest processing and valorization of Kinnow mandarin (<i>Citrus reticulata</i> L.): A review. <i>Journal of Food Science and Technology</i> , 2020, 57, 799-815.	1.4	35
334	ISFC-BLS (Intelligent and Secured Fuzzy Clustering Algorithm Using Balanced Load Sub-Cluster) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 38	1.8	35
335	Ultrathin diamond-like carbon coatings used for reduction of pole tip recession in magnetic tape heads. <i>Journal of Applied Physics</i> , 2000, 87, 6182-6184.	1.1	34
336	Title is missing!. <i>World Journal of Microbiology and Biotechnology</i> , 2001, 17, 5-8.	1.7	34
337	Identifying materials with low friction and adhesion for nanotechnology applications. <i>Applied Physics Letters</i> , 2005, 86, 061906.	1.5	34
338	Wetting properties of AFM probes by means of contact angle measurement. <i>Journal Physics D: Applied Physics</i> , 2006, 39, 3858-3862.	1.3	34
339	Obstructive Sleep Apnoea correlates with C-reactive protein in obese Asian Indians. <i>Nutrition, Metabolism and Cardiovascular Diseases</i> , 2009, 19, 184-189.	1.1	34
340	Fatty-acid binding protein 4 gene variants and childhood obesity: potential implications for insulin sensitivity and CRP levels. <i>Lipids in Health and Disease</i> , 2010, 9, 18.	1.2	34
341	In situ atomic force microscopy analysis of morphology and particle size changes in Lithium Iron Phosphate cathode during discharge. <i>Journal of Colloid and Interface Science</i> , 2014, 423, 151-157.	5.0	34
342	Development of continuous stiffness measurement technique for composite magnetic tapes. <i>Scripta Materialia</i> , 2000, 42, 929-935.	2.6	33

#	ARTICLE	IF	CITATIONS
343	Investigation of nanotribological and nanomechanical properties of the digital micromirror device by atomic force microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2004, 22, 1388-1396.	0.9	33
344	Meniscus and viscous forces during separation of hydrophilic and hydrophobic smooth/rough surfaces with symmetric and asymmetric contact angles. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1627-1647.	1.6	33
345	A nanoscale friction investigation during the manipulation of nanoparticles in controlled environments. <i>Nanotechnology</i> , 2008, 19, 315710.	1.3	33
346	Nanoscale biomimetics studies of <i>Salvinia molesta</i> for micropattern fabrication. <i>Journal of Colloid and Interface Science</i> , 2011, 363, 187-192.	5.0	33
347	The second branchial cleft fistula. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2012, 76, 1042-1045.	0.4	33
348	Intermittent hypoxia activates temporally coordinated transcriptional programs in visceral adipose tissue. <i>Journal of Molecular Medicine</i> , 2012, 90, 435-445.	1.7	33
349	Nanomechanical and nanotribological characterization of two synthetic skins with and without skin cream treatment using atomic force microscopy. <i>Journal of Colloid and Interface Science</i> , 2013, 398, 247-254.	5.0	33
350	Electrical and dielectric behavior of a zinc oxide composite. <i>Journal of Applied Physics</i> , 1981, 52, 2932-2936.	1.1	32
351	Numerical contact and stiction analyses of Gaussian isotropic surfaces for magnetic head slider/disk contact. <i>Wear</i> , 1996, 202, 68-82.	1.5	32
352	Optimization of Asperities for Laser-Textured Magnetic Disk Surfaces. <i>Tribology Transactions</i> , 1997, 40, 303-311.	1.1	32
353	Stress analysis of nanostructures using a finite element method. <i>Nanotechnology</i> , 2002, 13, 515-523.	1.3	32
354	A technique to measure Poisson's ratio of ultrathin polymeric films using atomic force microscopy. <i>Review of Scientific Instruments</i> , 2003, 74, 1043-1047.	0.6	32
355	Velocity dependence and rest time effect on nanoscale friction of ultrathin films at high sliding velocities. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 1267-1274.	0.9	32
356	Effect of physical wear and triboelectric interaction on surface charge as measured by Kelvin probe microscopy. <i>Journal of Colloid and Interface Science</i> , 2007, 310, 321-330.	5.0	32
357	Gecko-inspired fibril nanostructures for reversible adhesion in biomedical applications. <i>Materials Letters</i> , 2013, 92, 409-412.	1.3	32
358	Electroviscous effect on fluid drag in a microchannel with large zeta potential. <i>Beilstein Journal of Nanotechnology</i> , 2015, 6, 2207-2216.	1.5	32
359	Role of <i>Aspergillus fumigatus</i> in Triggering Protease-Activated Receptor-2 in Airway Epithelial Cells and Skewing the Cells toward a T-helper 2 Bias. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2016, 54, 60-70.	1.4	32
360	Designing bioinspired surfaces for water collection from fog. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180269.	1.6	32

#	ARTICLE	IF	CITATIONS
361	Real Time Indian License Plate Detection using Deep Neural Networks and Optical Character Recognition using LSTM Tesseract. , 2019, , .		32
362	Micromechanical and tribological characterization of alternate pole tip materials for magnetic recording heads. <i>Wear</i> , 1996, 202, 99-109.	1.5	31
363	Pole tip recession studies of hard carbon-coated thin-film tape heads. <i>Journal of Applied Physics</i> , 1996, 79, 5916.	1.1	31
364	Three-dimensional contact analysis of layered elastic/plastic solids with rough surfaces. <i>Wear</i> , 2001, 249, 741-760.	1.5	31
365	Quantitative extraction of in-plane surface properties using torsional resonance mode of atomic force microscopy. <i>Journal of Applied Physics</i> , 2005, 97, 083533.	1.1	31
366	Nanotribology and nanomechanics of AFM probe-based data recording technology. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 365207.	0.7	31
367	Tactile perception of skin and skin cream by friction induced vibrations. <i>Journal of Colloid and Interface Science</i> , 2016, 481, 131-143.	5.0	31
368	Substrate-independent superliquiphobic coatings for water, oil, and surfactant repellency: An overview. <i>Journal of Colloid and Interface Science</i> , 2018, 526, 90-105.	5.0	31
369	Machine learning methods for IoT and their Future Applications. , 2019, , .		31
370	Cu-chitosan nano-net improves keeping quality of tomato by modulating physio-biochemical responses. <i>Scientific Reports</i> , 2020, 10, 21914.	1.6	31
371	Development of r.f. sputtered chromium oxide coating for wear application. <i>Thin Solid Films</i> , 1979, 64, 231-241.	0.8	30
372	Friction and Wear Properties of Chemomechanically Polished Diamond Films. <i>Journal of Tribology</i> , 1994, 116, 445-453.	1.0	30
373	Nanoindentation studies of ion implanted silicon. <i>Surface and Coatings Technology</i> , 1994, 68-69, 564-570.	2.2	30
374	Nanomechanical characterization of polymer beam structures for BioMEMS applications. <i>Sensors and Actuators A: Physical</i> , 2007, 135, 637-650.	2.0	30
375	Effect of boundary slip and surface charge on the pressure-driven flow. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 15-26.	5.0	30
376	Biomechanical Evaluation of Wasp and Honeybee Stingers. <i>Scientific Reports</i> , 2018, 8, 14945.	1.6	30
377	Applicability of Industrial IoT in Diversified Sectors: Evolution, Applications and Challenges. <i>Studies in Big Data</i> , 2021, , 45-67.	0.8	30
378	Modification of Tribological Properties of Silicon by Boron Ion Implantation. <i>Tribology Transactions</i> , 1994, 37, 601-607.	1.1	29

#	ARTICLE	IF	CITATIONS
379	Platinum-coated probes sliding at up to 100 mm s ⁻¹ against coated silicon wafers for AFM probe-based recording technology. <i>Nanotechnology</i> , 2007, 18, 345504.	1.3	29
380	Coalescence and movement of nanobubbles studied with tapping mode AFM and tip-bubble interaction analysis. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 485004.	0.7	29
381	Durable superoleophobic polypropylene surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160193.	1.6	29
382	Bioinspired oil-water separation approaches for oil spill clean-up and water purification. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190120.	1.6	29
383	Designing bioinspired conical surfaces for water collection from condensation. <i>Journal of Colloid and Interface Science</i> , 2020, 560, 138-148.	5.0	29
384	Metallurgical re-examination of wear modes II: adhesive and abrasive. <i>Thin Solid Films</i> , 1985, 123, 113-126.	0.8	28
385	Title is missing!. <i>Tribology Letters</i> , 1999, 6, 129-139.	1.2	28
386	Nanofatigue studies of ultrathin hard carbon overcoats used in magnetic storage devices. <i>Journal of Applied Physics</i> , 2002, 91, 8334.	1.1	28
387	Characterization of nanomechanical and nanotribological properties of digital micromirror devices. <i>Nanotechnology</i> , 2004, 15, 1785-1791.	1.3	28
388	Adhesion, friction and wear on the nanoscale of MWNT tips and SWNT and MWNT arrays. <i>Nanotechnology</i> , 2008, 19, 125702.	1.3	28
389	Nanotribological properties of novel lubricants for magnetic tapes. <i>Ultramicroscopy</i> , 2009, 109, 980-990.	0.8	28
390	Surface, tribological, and mechanical characterization of synthetic skins for tribological applications in cosmetic science. <i>Journal of Applied Polymer Science</i> , 2011, 120, 2881-2890.	1.3	28
391	Scale effects of nanomechanical properties and deformation behavior of Au nanoparticle and thin film using depth sensing nanoindentation. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 822-836.	1.5	28
392	Purification, physico-chemico-kinetic characterization and thermal inactivation thermodynamics of milk clotting enzyme from <i>Bacillus subtilis</i> MTCC 10422. <i>LWT - Food Science and Technology</i> , 2016, 65, 652-660.	2.5	28
393	Mechanisms of static and kinetic friction of polypropylene, polyethylene terephthalate, and high-density polyethylene pairs during sliding. <i>Tribology International</i> , 2016, 94, 165-175.	3.0	28
394	Liquid-impregnated porous polypropylene surfaces for liquid repellency. <i>Journal of Colloid and Interface Science</i> , 2017, 487, 437-443.	5.0	28
395	A review of beetle hindwings: Structure, mechanical properties, mechanism and bioinspiration. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019, 94, 63-73.	1.5	28
396	Emergence of Blockchain Technology: Fundamentals, Working and its Various Implementations. <i>SSRN Electronic Journal</i> , 0, , .	0.4	28

#	ARTICLE	IF	CITATIONS
397	Microscale mechanical and tribological characterization of hard amorphous carbon coatings as thin as 5 nm for magnetic disks. <i>Surface and Coatings Technology</i> , 1995, 76-77, 655-669.	2.2	27
398	Measurement and Origin of Tape Edge Damage in a Linear Tape Drive. <i>Tribology Letters</i> , 2003, 14, 167-180.	1.2	27
399	Surface potential measurement of human hair using Kelvin probe microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 893-902.	0.9	27
400	Nanotribological Characterization and Lubricant Degradation Studies of Metal-Film Magnetic Tapes Using Novel Lubricants. <i>Journal of Tribology</i> , 2007, 129, 621-627.	1.0	27
401	Physics and tribology of chemical mechanical planarization. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225011.	0.7	27
402	Role of Electric Field on Surface Wetting of Polystyrene Surface. <i>Langmuir</i> , 2011, 27, 9425-9429.	1.6	27
403	Nanomechanical characterization and mechanical integrity of unaged and aged Li-ion battery cathodes. <i>Journal of Power Sources</i> , 2014, 246, 219-224.	4.0	27
404	Combinatorial approaches for controlling pericarp browning in Litchi (<i>Litchi chinensis</i>) fruit. <i>Journal of Food Science and Technology</i> , 2015, 52, 5418-5426.	1.4	27
405	Fluid flow analysis of continuous and segmented riblet structures. <i>RSC Advances</i> , 2016, 6, 10962-10978.	1.7	27
406	A comprehensive survey of secure and energy efficient routing protocols and data collection approaches in wireless sensor networks. , 2017, , .		27
407	Fabrication of bioinspired superhydrophobic synthetic leather with self-cleaning and low adhesion. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2018, 545, 130-137.	2.3	27
408	Evolution of IoT & Data Analytics using Deep Learning. , 2019, , .		27
409	Security Concerns and Future Trends of Internet of Things. , 2019, , .		27
410	Friction and Wear of Ceramics for Magnetic Recording Applications: Part I—A Review. <i>Journal of Tribology</i> , 1990, 112, 1-16.	1.0	26
411	Magnetic media tribology: State of the art and future challenges. <i>Wear</i> , 1990, 136, 169-197.	1.5	26
412	Macro and microtribological studies of CrO ₂ video tapes. <i>Wear</i> , 1995, 180, 9-16.	1.5	26
413	Nanoscale mechanical characterization of glass fibers. <i>Materials Letters</i> , 1996, 29, 215-220.	1.3	26
414	Nano-asperity contact analysis and surface optimization for magnetic head slider/disk contact. <i>Wear</i> , 1996, 202, 83-98.	1.5	26

#	ARTICLE	IF	CITATIONS
415	Effective mechanical properties of layered rough surfaces. <i>Thin Solid Films</i> , 2005, 473, 278-295.	0.8	26
416	Nanoscale friction mapping. <i>Applied Physics Letters</i> , 2005, 86, 193102.	1.5	26
417	Coupling of cantilever lateral bending and torsion in torsional resonance and lateral excitation modes of atomic force microscopy. <i>Journal of Applied Physics</i> , 2006, 99, 094911.	1.1	26
418	Discovery of lithium in copper current collectors used in batteries. <i>Scripta Materialia</i> , 2012, 67, 669-672.	2.6	26
419	A Comparison of Revision Adenoidectomy Rates Based on Techniques. <i>Otolaryngology - Head and Neck Surgery</i> , 2013, 148, 841-846.	1.1	26
420	Nanomechanical behavior of MoS ₂ and WS ₂ multi-walled nanotubes and Carbon nanohorns. <i>Scientific Reports</i> , 2015, 5, 8539.	1.6	26
421	Enhancement of water collection and transport in bioinspired triangular patterns from combined fog and condensation. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 528-536.	5.0	26
422	Measurement of rheological properties of ultrathin lubricant films at very high shear rates and near-ambient pressure. <i>Journal of Applied Physics</i> , 1995, 78, 3107-3114.	1.1	25
423	Surface Modification of AFM Si ₃ N ₄ Probes for Adhesion/Friction Reduction and Imaging Improvement. <i>Journal of Tribology</i> , 2006, 128, 865-875.	1.0	25
424	Nanotribological characterization of vapor phase deposited fluorosilane self-assembled monolayers deposited on polydimethylsiloxane surfaces for biomedical micro-/nanodevices. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 1285-1293.	0.9	25
425	Effect of rubbing load on nanoscale charging characteristics of human hair characterized by AFM based Kelvin probe. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 580-587.	5.0	25
426	A review of block copolymer-based biomaterials that control protein and cell interactions. <i>Journal of Biomedical Materials Research - Part A</i> , 2014, 102, 2467-2480.	2.1	25
427	A dynamic nanoindentation technique to investigate the nanomechanical properties of a colored beetle. <i>RSC Advances</i> , 2016, 6, 79106-79113.	1.7	25
428	Attacks, Countermeasures and Security Paradigms in IoT. , 2019, , .		25
429	Information Security threats and attacks with conceivable counteraction. , 2019, , .		25
430	Bis- η^5 -cyclopentadienyl and Bis- η^5 -methylcyclopentadienylN,N-dialkyldithiocarbamate(chloro)titanium(IV) compounds. <i>Transition Metal Chemistry</i> , 1978, 3, 215-217.	0.7	23
431	The tribological and dynamic behavior of alternative magnetic tape substrates. <i>Wear</i> , 1995, 190, 28-43.	1.5	23
432	High shear rate viscosity measurements of perfluoropolyether lubricants for magnetic thin-film rigid disks. <i>Journal of Applied Physics</i> , 1997, 81, 5384-5386.	1.1	23

#	ARTICLE	IF	CITATIONS
433	Tribological performance of PFPE and X-IP lubricants at head-disk interface. Part II. Mechanisms. Tribology Letters, 1999, 6, 141-148.	1.2	23
434	Corrosion and wear studies of uncoated and ultra-thin DLC coated magnetic tape-write heads and magnetic tapes. Wear, 2000, 243, 31-42.	1.5	23
435	Nanoscale friction and wear maps. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2008, 366, 1405-1424.	1.6	23
436	Correlation between respiratory cultures and sinus cultures in children with cystic fibrosis. International Journal of Pediatric Otorhinolaryngology, 2013, 77, 686-689.	0.4	23
437	Probing the aging effects on nanomechanical properties of a LiFePO ₄ cathode in a large format prismatic cell. Journal of Power Sources, 2015, 280, 256-262.	4.0	23
438	Rapid, ultraviolet-induced, reversibly switchable wettability of superhydrophobic/superhydrophilic surfaces. Beilstein Journal of Nanotechnology, 2019, 10, 866-873.	1.5	23
439	Blockchain-based Security Solutions to Preserve Data Privacy And Integrity. , 2019, , .		23
440	Multistep Wettability Gradient on Bioinspired Conical Surfaces for Water Collection from Fog. Langmuir, 2019, 35, 16944-16947.	1.6	23
441	A novel technique to measure the Poisson's ratio and submicron lateral dimensional changes of ultrathin polymeric films. Review of Scientific Instruments, 2002, 73, 1813-1820.	0.6	22
442	Sliding Contact Analysis of Layered Elastic/Plastic Solids With Rough Surfaces. Journal of Tribology, 2002, 124, 46-61.	1.0	22
443	Optimization of biomimetic attachment system contacting with a rough surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2007, 25, 1003-1012.	0.9	22
444	Wear detection of candidate MEMS/NEMS lubricant films using atomic force microscopy-based surface potential measurements. Scripta Materialia, 2007, 57, 821-824.	2.6	22
445	Capillary effects and instabilities in nanocontacts. Ultramicroscopy, 2008, 108, 1181-1185.	0.8	22
446	Technique to measure contact angle of micro/nanodroplets using atomic force microscopy. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2008, 26, 777-782.	0.9	22
447	Shark-skin surfaces for fluid-drag reduction in turbulent flow: a review. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2010, 368, 5737-5737.	1.6	22
448	Biochemical characterization and kinetic comparison of encapsulated haze removing acidophilic xylanase with partially purified free xylanase isolated from Aspergillus flavus MTCC 9390. Journal of Food Science and Technology, 2015, 52, 191-200.	1.4	22
449	Classification and analysis of security attacks in WSNs and IEEE 802.15.4 standards : A survey. , 2017, , .		22
450	Lessons from mosquitoes' painless piercing. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 84, 178-187.	1.5	22

#	ARTICLE	IF	CITATIONS
451	Security vulnerabilities in Information communication technology: Blockchain to the rescue (A) Tj ETQq1 1 0.784314 rgBT /Oyerlock 10		22
452	Authentication & Encryption Based Security Services in Blockchain Technology. , 2019, , .		22
453	Unifying Blockchian and IoT:Security Requirements, Challenges, Applications and Future Trends. , 2019, , .		22
454	Non-Fungicides-Based Promising Technologies for Managing Post-Production<i>Penicillium</i>Induced Spoilage in Horticultural Commodities: A Comprehensive Review. Food Reviews International, 2022, 38, 227-267.	4.3	22
455	Ethnomedicinal Plants Used in the Health Care System: Survey of the Mid Hills of Solan District, Himachal Pradesh, India. Plants, 2021, 10, 1842.	1.6	22
456	Contact analysis of laser textured disks in magnetic head&€“disk interface. Wear, 1999, 230, 11-23.	1.5	21
457	Effect of particulate concentration, materials and size on the friction and wear of a negative-pressure picoslider flying on a laser-textured disk. Wear, 2001, 247, 180-190.	1.5	21
458	Orientation and relocation of biphenyl thiol self-assembled monolayers under sliding. Ultramicroscopy, 2002, 91, 177-183.	0.8	21
459	Tape edge study in a linear tape drive with single-flanged guides. Journal of Magnetism and Magnetic Materials, 2004, 271, 409-430.	1.0	21
460	Protein binding on thermally grown silicon dioxide. Journal of Vacuum Science & Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena, 2005, 23, 1856.	1.6	21
461	Effect of spherical Au nanoparticles on nanofriction and wear reduction in dry and liquid environments. Beilstein Journal of Nanotechnology, 2012, 3, 759-772.	1.5	21
462	Suppression of Epithelial Signal Transducer and Activator of Transcription 1 Activation by Extracts of <i>Aspergillus fumigatus</i>. American Journal of Respiratory Cell and Molecular Biology, 2015, 53, 87-95.	1.4	21
463	Self-Assembled Monolayers on Aluminum and Copper Oxide Surfaces: Surface and Interface Characteristics, Nanotribological Properties, and Chemical Stability. , 2008, , 235-281.		21
464	Synthesis and Characterisation of Bis(Î€-cyclopentadienyl) N-aryl Substituted Dithiocarbamate Chloro Titanium (IV) Compounds. Synthesis and Reactivity in Inorganic, Metal Organic, and Nano Metal Chemistry, 1978, 8, 467-476.	1.8	20
465	Influence of test parameters on the measurement of the coefficient of friction of magnetic tapes. Wear, 1984, 93, 81-99.	1.5	20
466	Wear and degradation mechanisms of magnetic thin-film rigid disks with different lubricants using mass spectrometry. Journal of Applied Physics, 1997, 81, 5390-5392.	1.1	20
467	Nanoscale fatigue and fracture toughness measurements of multilayered thin film structures for digital micromirror devices. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2004, 22, 1397-1405.	0.9	20
468	Synthesis and morphological characterization of block copolymers for improved biomaterials. Ultramicroscopy, 2010, 110, 639-649.	0.8	20

#	ARTICLE	IF	CITATIONS
469	Nanobubbles and their role in slip and drag. <i>Journal of Physics Condensed Matter</i> , 2013, 25, 184003.	0.7	20
470	Postoperative Observation of Children after Endoscopic Type 1 Posterior Laryngeal Cleft Repair. <i>Otolaryngology - Head and Neck Surgery</i> , 2015, 152, 153-158.	1.1	20
471	The effect of surface charge on the boundary slip of various oleophilic/phobic surfaces immersed in liquids. <i>Soft Matter</i> , 2015, 11, 7680-7695.	1.2	20
472	Effect of microtrichia on the interlocking mechanism in the Asian ladybeetle, <i>Harmonia axyridis</i> (Coleoptera: Coccinellidae). <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 812-823.	1.5	20
473	Use of Machine Learning algorithms for designing efficient cyber security solutions. , 2019, , .		20
474	Core-shell magnetic nanoparticles for substrate-independent super-amphiphobic surfaces and mechanochemically robust liquid marbles. <i>Chemical Engineering Journal</i> , 2020, 391, 123523.	6.6	20
475	Delineating the inherent functional descriptors and biofunctionalities of pectic polysaccharides. <i>Carbohydrate Polymers</i> , 2021, 269, 118319.	5.1	20
476	Novel nonohmic binary composite. <i>Applied Physics Letters</i> , 1981, 38, 160-161.	1.5	19
477	Lubrication of advanced metal evaporated tape using novel perfluoropolyether lubricants. <i>Microsystem Technologies</i> , 2006, 12, 579-587.	1.2	19
478	Do hierarchical mechanisms of superhydrophobicity lead to self-organized criticality?. <i>Scripta Materialia</i> , 2008, 59, 941-944.	2.6	19
479	Nanolubrication of sliding components in adaptive optics used in microprojectors. <i>Applied Surface Science</i> , 2010, 256, 7545-7558.	3.1	19
480	Liquid Microdroplet Sliding on Hydrophobic Surfaces in the Presence of an Electric Field. <i>Langmuir</i> , 2010, 26, 4013-4017.	1.6	19
481	Local electronic structure of LiFePO ₄ nanoparticles in aged Li-ion batteries. <i>Acta Materialia</i> , 2011, 59, 6917-6926.	3.8	19
482	Fabrication and characterization of multi-level hierarchical surfaces. <i>Faraday Discussions</i> , 2012, 156, 235.	1.6	19
483	Effect of carbon nanohorns on nanofriction and wear reduction in dry and liquid environments. <i>Journal of Colloid and Interface Science</i> , 2013, 400, 147-160.	5.0	19
484	Boundary Slip of Superoleophilic, Oleophobic, and Superoleophobic Surfaces Immersed in Deionized Water, Hexadecane, and Ethylene Glycol. <i>Langmuir</i> , 2013, 29, 14691-14700.	1.6	19
485	Characterization of nanofriction of MoS ₂ and WS ₂ nanotubes. <i>Materials Letters</i> , 2015, 142, 207-210.	1.3	19
486	Study on Nanobubble-on-Pancake Objects Forming at Polystyrene/Water Interface. <i>Langmuir</i> , 2016, 32, 11256-11264.	1.6	19

#	ARTICLE	IF	CITATIONS
487	Discovery of riblets in a bird beak (<i>Rynchops</i>) for low fluid drag. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160134.	1.6	19
488	Multistep wettability gradient in bioinspired triangular patterns for water condensation and transport. Journal of Colloid and Interface Science, 2020, 560, 866-873.	5.0	19
489	Propagation of weak waves in elastic-plastic and elastic-viscoplastic solids with interfaces. International Journal of Solids and Structures, 1978, 14, 39-51.	1.3	18
490	Bis (f-cyclopentadienyl) N-aryl substituted dithiocarbamate chloro zirconium(IV) compounds. Journal of Inorganic and Nuclear Chemistry, 1980, 42, 457-461.	0.5	18
491	Metal Core Recession and Head Stain Studies of MIG Heads Sliding against Cobalt-Doped Gamma Iron Oxide and Metal Particle Tapes. Tribology Transactions, 1995, 38, 941-949.	1.1	18
492	Non-Gaussian surface roughness distribution of magnetic media for minimum friction/stiction. Journal of Applied Physics, 1996, 79, 5794.	1.1	18
493	Pole tip recession studies of thin-film rigid disk head sliders I. Mechanisms of pole tip recession growth. Wear, 1998, 219, 16-29.	1.5	18
494	Effect of thermal oxidation on indentation and scratching of single-crystal silicon carbide on microscale. Wear, 2000, 237, 116-128.	1.5	18
495	Three-Dimensional Dry/Wet Contact Analysis of Multilayered Elastic/Plastic Solids With Rough Surfaces. Journal of Tribology, 2006, 128, 18-31.	1.0	18
496	Evidence of the No-Slip Boundary Condition of Water Flow between Hydrophilic Surfaces Using Atomic Force Microscopy. Langmuir, 2009, 25, 12002-12005.	1.6	18
497	Obstructive Sleep Apnea Is Independently Associated with the Metabolic Syndrome in Obese Asian Indians in Northern India. Metabolic Syndrome and Related Disorders, 2010, 8, 431-435.	0.5	18
498	Anti-smudge screening apparatus for electronic touch screens. Microsystem Technologies, 2013, 19, 1261-1263.	1.2	18
499	Extracellular biosynthesis and characterization of gold nanoparticles using the fungus Penicillium chrysogenum. Microsystem Technologies, 2015, 21, 2279-2285.	1.2	18
500	Bioinspired triangular patterns for water collection from fog. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190128.	1.6	18
501	Facile approach to develop anti-corrosive superhydrophobic aluminium with high mechanical, chemical and thermal durability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180272.	1.6	18
502	Water condensation and transport on bioinspired triangular patterns with heterogeneous wettability at a low temperature. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180335.	1.6	18
503	Lipase production from an alkalophilic yeast sp. by solid state fermentation. Biotechnology Letters, 1994, 16, 841-842.	1.1	17
504	Viscoelastic and shrinkage behavior of ultrathin polymeric films. Journal of Applied Polymer Science, 1995, 58, 2381-2398.	1.3	17

#	ARTICLE	IF	CITATIONS
505	Enhanced production of xylanase from <i>Staphylococcus</i> sp. SG-13 using amino acids. <i>World Journal of Microbiology and Biotechnology</i> , 1999, 15, 511-512.	1.7	17
506	Novel phenotypic markers and screening score for the metabolic syndrome in adult Asian Indians. <i>Diabetes Research and Clinical Practice</i> , 2008, 79, e1-e5.	1.1	17
507	ImmunoFET feasibility in physiological salt environments. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2474-2488.	1.6	17
508	Friction and durability of virgin and damaged skin with and without skin cream treatment using atomic force microscopy. <i>Beilstein Journal of Nanotechnology</i> , 2012, 3, 731-746.	1.5	17
509	Metabolic alterations in adolescents with obstructive sleep apnea. <i>International Journal of Pediatric Otorhinolaryngology</i> , 2015, 79, 2368-2373.	0.4	17
510	The hydraulic mechanism in the hind wing veins of <i>Cyrtopogon japonicus</i> Sharp (order: Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td	1.5	17
511	Slip length measurement of gas flow. <i>Nanotechnology</i> , 2016, 27, 374004.	1.3	17
512	Lessons from nature for green science and technology: an overview and bioinspired superliquiphobic/philic surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180274.	1.6	17
513	Friction and Wear of Metal Particle, Barium Ferrite and Metal Evaporated Tapes in Rotary Head Recorders. <i>Journal of Tribology</i> , 1996, 118, 21-32.	1.0	16
514	Fundamental wear studies with magnetic particles and head cleaning agents used in magnetic tapes. <i>Wear</i> , 1996, 202, 3-16.	1.5	16
515	Nanotribology of carbon nanotubes. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 365214.	0.7	16
516	The mRNA expression of immune-related genes in crossbred and Tharparkar cattle in response to in vitro infection with <i>Theileria annulata</i> . <i>Molecular Biology Reports</i> , 2015, 42, 1247-1255.	1.0	16
517	Nanomechanical, nanotribological and macrotribological characterization of hard coatings and surface treatment of H-13 steel. <i>Tribology International</i> , 2015, 81, 149-158.	3.0	16
518	Nanofriction and nanowear of polypropylene, polyethylene terephthalate, and high-density polyethylene during sliding. <i>Wear</i> , 2016, 352-353, 18-23.	1.5	16
519	Optimization of bioinspired triangular patterns for water condensation and transport. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190127.	1.6	16
520	Taxonomy of Attacks on Web Based Applications. , 2019, , .		16
521	Single nucleotide polymorphisms in toll-like receptor genes and case-control association studies with bovine tuberculosis. <i>Veterinary World</i> , 2016, 9, 458-464.	0.7	16
522	Friction and wear of ion-implanted diamondlike carbon and fullerene films for thin-film rigid disks. <i>Journal of Applied Physics</i> , 1994, 75, 6156-6158.	1.1	15

#	ARTICLE	IF	CITATIONS
523	Environmental effects on the pause mode performance of metal-evaporated and metal-particle tapes. <i>Journal of Applied Physics</i> , 1996, 79, 5802.	1.1	15
524	Time-dependent mechanical properties and tribological behavior of magnetic tapes. <i>Wear</i> , 2001, 251, 1150-1158.	1.5	15
525	Finite element analysis of nanostructures with roughness and scratches. <i>Ultramicroscopy</i> , 2003, 97, 495-507.	0.8	15
526	Nanotribological and nanomechanical properties of lubricated PZT thin films for ferroelectric data storage applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 768-776.	0.9	15
527	Manipulating microobject by using liquid droplet as a transporting vehicle. <i>Journal of Colloid and Interface Science</i> , 2009, 329, 196-201.	5.0	15
528	Role of surface roughness and lubricant film thickness in nanolubrication of sliding components in adaptive optics. <i>Journal of Colloid and Interface Science</i> , 2011, 353, 574-581.	5.0	15
529	Governance, policy, and legislation of nanotechnology: a perspective. <i>Microsystem Technologies</i> , 2015, 21, 1137-1155.	1.2	15
530	Designing liquid repellent, icephobic and self-cleaning surfaces with high mechanical and chemical durability. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180270.	1.6	15
531	Security Countermeasures in Web Based Application. , 2019, , .		15
532	Accelerated Wear Test Using Magnetic-Particle Slurries. <i>Tribology Transactions</i> , 1988, 31, 228-238.	1.1	14
533	Creep and shrinkage behavior of improved ultrathin polymeric films. <i>Journal of Applied Polymer Science</i> , 2002, 84, 1477-1498.	1.3	14
534	Effects of operating speed and tension and sources of lateral tape motion in a linear tape drive. <i>Journal of Magnetism and Magnetic Materials</i> , 2005, 293, 826-848.	1.0	14
535	Adhesion hysteresis and friction at nanometer and micrometer lengths. <i>Journal of Applied Physics</i> , 2006, 99, 014310.	1.1	14
536	Three-Dimensional Sliding Contact Analysis of Multilayered Solids With Rough Surfaces. <i>Journal of Tribology</i> , 2007, 129, 40-59.	1.0	14
537	Triboelectrification studies of skin and skin cream using Kelvin probe microscopy. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 1018-1028.	0.9	14
538	High resolution morphology and electrical characterization of aged Li-ion battery cathode. <i>Journal of Colloid and Interface Science</i> , 2012, 380, 187-191.	5.0	14
539	Nanomanipulation, nanotribology and nanomechanics of Au nanorods in dry and liquid environments using an AFM and depth sensing nanoindenter. <i>Nanoscale</i> , 2014, 6, 5838-5852.	2.8	14
540	Perspective: Science and technology policy – What is at stake and why should scientists participate?. <i>Science and Public Policy</i> , 2015, 42, 887-900.	1.2	14

#	ARTICLE	IF	CITATIONS
541	Superhydrophilic Al ₂ O ₃ Particle Layer for Efficient Separation of Oil-in-Water (O/W) and Water-in-Oil (W/O) Emulsions. <i>Langmuir</i> , 2020, 36, 13285-13291.	1.6	14
542	Scanning Probe Microscopy – Principle of Operation, Instrumentation, and Probes. , 2011, , 37-110.		14
543	Chemical analyses of stains formed on Co–Nb–Zr metal-in-gap heads sliding against oxide and metal particle magnetic tapes. <i>Journal of Materials Research</i> , 1995, 10, 1795-1810.	1.2	13
544	Lubricant film thickness mapping using a capacitance technique on magnetic thin-film rigid disks. <i>Review of Scientific Instruments</i> , 1998, 69, 3339-3349.	0.6	13
545	Effect of peak radius on design of W-type donut shaped laser textured surfaces. <i>Wear</i> , 1999, 230, 118-123.	1.5	13
546	Comparison studies on degradation mechanisms of perfluoropolyether lubricants and model lubricants. <i>Tribology Letters</i> , 2001, 9, 187-197.	1.2	13
547	Bending and fatigue study on a nanoscale hinge by an atomic force microscope. <i>Nanotechnology</i> , 2004, 15, 1246-1251.	1.3	13
548	Dynamic analysis of torsional resonance mode of atomic force microscopy and its application to in-plane surface property extraction. <i>Microsystem Technologies</i> , 2006, 12, 219-230.	1.2	13
549	Platinum-coated probes sliding at up to 100 mm/s against lead zirconate titanate films for atomic force microscopy probe-based ferroelectric recording technology. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2008, 26, 783-793.	0.9	13
550	Kelvin probe force microscopy-based characterization techniques applied for electrostatic MEMS/NEMS devices and bare dielectric films to investigate the dielectric and substrate charging phenomena. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2011, 29, 051101.	0.9	13
551	Designing nanostructured block copolymer surfaces to control protein adhesion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2348-2380.	1.6	13
552	Mechanically durable liquid-impregnated honeycomb surfaces. <i>Scientific Reports</i> , 2017, 7, 6083.	1.6	13
553	Global gene expression profile of peripheral blood mononuclear cells challenged with <i>Theileria annulata</i> in crossbred and indigenous cattle. <i>Infection, Genetics and Evolution</i> , 2017, 47, 9-18.	1.0	13
554	Nullifying phosphatidic acid effect and controlling phospholipase D associated browning in litchi pericarp through combinatorial application of hexanal and inositol. <i>Scientific Reports</i> , 2019, 9, 2402.	1.6	13
555	Nanotribology, Nanomechanics, and Materials Characterization. , 2011, , 3-106.		13
556	Associations of -308G/A polymorphism of tumor necrosis factor (TNF)- β gene and serum TNF- β levels with measures of obesity, intra-abdominal and subcutaneous abdominal fat, subclinical inflammation and insulin resistance in Asian Indians in north India. <i>Disease Markers</i> , 2011, 31, 39-46.	0.6	13
557	Surface analysis study of electrical-arc-induced wear. <i>Thin Solid Films</i> , 1983, 108, 135-156.	0.8	12
558	Prediction of surface parameters in magnetic media. <i>Wear</i> , 1984, 95, 19-27.	1.5	12

#	ARTICLE	IF	CITATIONS
559	Wear Behavior of Ceramic Sliders in Sliding Contact with Rigid Magnetic Thin-Film Disks. Tribology Transactions, 1992, 35, 603-610.	1.1	12
560	In Situ Studies of Wear Mechanisms in Magnetic Thin-Film Disks. Tribology Transactions, 1997, 40, 549-558.	1.1	12
561	Pole tip recession studies of thin-film rigid disk head sliders II. Effects of air bearing surface and pole tip region designs and carbon coating. Wear, 1998, 219, 30-41.	1.5	12
562	Three-dimensional finite element analysis of the magnetic tape slitting process. Journal of Materials Processing Technology, 2005, 170, 71-88.	3.1	12
563	Nanomechanical and nanotribological characterization of noble metal-coated AFM tips for probe-based ferroelectric data recording. Nanotechnology, 2008, 19, 105705.	1.3	12
564	The role of lubricants, scanning velocity and operating environment in adhesion, friction and wear of Pt-Ir coated probes for atomic force microscope probe-based ferroelectric recording technology. Journal of Physics Condensed Matter, 2008, 20, 325240.	0.7	12
565	Raman and NMR studies of aged LiFePO ₄ cathode. Applied Surface Science, 2012, 259, 49-54.	3.1	12
566	Clinical indicators that predict the presence of moderate to severe obstructive sleep apnea after adenotonsillectomy in children. American Journal of Otolaryngology - Head and Neck Medicine and Surgery, 2014, 35, 487-495.	0.6	12
567	Association and Expression Analysis of Single Nucleotide Polymorphisms of Partial Tumor Necrosis Factor Alpha Gene with Mastitis in Crossbred Cattle. Animal Biotechnology, 2015, 26, 98-104.	0.7	12
568	Historical evolution of magnetic data storage devices and related conferences. Microsystem Technologies, 2018, 24, 4423-4436.	1.2	12
569	Properties of Blisters Formed on Polymer Films and Differentiating them from Nanobubbles/Nanodrops. Langmuir, 2019, 35, 3005-3012.	1.6	12
570	Working principle, Application areas and Challenges for Blockchain Technology. , 2020, , .		12
571	Blockchain-Based Cyberthreat Mitigation Systems for Smart Vehicles and Industrial Automation. Studies in Big Data, 2021, , 13-32.	0.8	12
572	Development of polyurethane-based superhydrophobic coatings on steel surfaces. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190446.	1.6	12
573	Association of ATP1A1 gene polymorphism with thermotolerance in Tharparkar and Vrindavani cattle. Veterinary World, 2015, 8, 892-897.	0.7	12
574	Bis(η-cyclopentadienyl) BIS(N-aryl substituted dithiocarbamate) titanium(IV) complexes. Journal of Inorganic and Nuclear Chemistry, 1979, 41, 159-160.	0.5	11
575	Effect of Interchanging Tapes and Head Contour on the Durability of Metal Evaporated, Metal Particle and Barium Ferrite Magnetic Tapes. Tribology Transactions, 1995, 38, 801-810.	1.1	11
576	Rough surface contact analysis and its relation to plastic deformation at the head-disk interface. Journal of Applied Physics, 1996, 79, 5799.	1.1	11

#	ARTICLE	IF	CITATIONS
577	Ultrathin Liquid Lubrication of Magnetic Head-Rigid Disk Interface for Near-Contact Recording: Part I—A Closed-Form Solution to the Reynolds Equation. <i>Journal of Tribology</i> , 1996, 118, 388-395.	1.0	11
578	Concurrent measurement of in situ friction force and head signal amplitude during dropouts in rotary head tape drives. <i>Wear</i> , 1996, 202, 35-49.	1.5	11
579	Humidity effect on friction/stiction and durability of head-disk interface with polar perfluoropolyether lubricant. <i>Journal of Applied Physics</i> , 1997, 81, 5387-5389.	1.1	11
580	Mechanical, hygroscopic, and thermal properties of ultrathin polymeric substrates for magnetic tapes. <i>Journal of Applied Polymer Science</i> , 2003, 89, 3052-3080.	1.3	11
581	Measurement and Prediction of Tape Cupping Under Mechanical and Hygrothermal Loads and Its Influence on Debris Generation in Linear Tape Drives. <i>Journal of Tribology</i> , 2003, 125, 364-376.	1.0	11
582	Vibration modeling of magnetic tape with vibro-impact of tape—guide contact. <i>Journal of Sound and Vibration</i> , 2006, 289, 632-655.	2.1	11
583	Thermally-treated Pt-coated silicon AFM tips for wear resistance in ferroelectric data storage. <i>Acta Materialia</i> , 2008, 56, 4233-4241.	3.8	11
584	Nanotribology of polyvinylidene difluoride (PVDF) in the presence of electric field. <i>Journal of Colloid and Interface Science</i> , 2011, 360, 777-784.	5.0	11
585	Nanotribology-based novel characterization techniques for the dielectric charging failure mechanism in electrostatically actuated NEMS/MEMS devices using force—distance curve measurements. <i>Journal of Colloid and Interface Science</i> , 2012, 365, 236-253.	5.0	11
586	Inactivation thermodynamics and iso-kinetic profiling for evaluating operational suitability of milk clotting enzyme immobilized in composite polymer matrix. <i>International Journal of Biological Macromolecules</i> , 2016, 91, 317-328.	3.6	11
587	Structural properties and their influence on the prey retention in the spider web. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180271.	1.6	11
588	Evolution of 5G Wireless Network in IoT. , 2020, , .		11
589	Transaction Privacy Preservations for Blockchain Technology. <i>Advances in Intelligent Systems and Computing</i> , 2021, , 377-393.	0.5	11
590	Applicability of WSN and Biometric Models in the Field of Healthcare. <i>Advances in Information Security, Privacy, and Ethics Book Series</i> , 2020, , 304-329.	0.4	11
591	Characterization of r.f.-sputter-deposited chromium oxide films. <i>Thin Solid Films</i> , 1980, 73, 255-265.	0.8	10
592	Metallurgical re-examination of wear modes I: erosive, electrical arcing and fretting. <i>Thin Solid Films</i> , 1985, 123, 93-112.	0.8	10
593	Endoscopic retrograde cholangiopancreatographic features of pancreaticobiliary ascariasis. <i>Gastrointestinal Radiology</i> , 1988, 13, 327-330.	0.4	10
594	Contact Analysis of Regular Patterned Rough Surfaces in Magnetic Recording. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 1995, 117, 26-33.	1.2	10

#	ARTICLE	IF	CITATIONS
595	Role of tape abrasivity on friction, wear, staining and signal degradation in audio tapes. <i>Wear</i> , 1995, 190, 16-27.	1.5	10
596	Accelerated Friction and Wear Studies of Various Particulate and Thin-Film Magnetic Tapes Against Tape Path Materials in Pure Sliding and Rotary/Sliding Modes. <i>Tribology Transactions</i> , 1995, 38, 329-341.	1.1	10
597	Title is missing!. , 1999, 15, 403-404.		10
598	Atomic-scale topographic and friction force imaging and cantilever dynamics in friction force microscopy. <i>Physical Review B</i> , 2006, 74, .	1.1	10
599	Adhesion properties of polymer/silicon interfaces for biological micro-/nanoelectromechanical systems applications. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2007, 25, 1275-1284.	0.9	10
600	Integrating electrowetting into micromanipulation of liquid droplets. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 485009.	0.7	10
601	Biomimetics. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1443-1444.	1.6	10
602	Green tribology. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 4675-4676.	1.6	10
603	Introduction to Nanotechnology: History, Status, and Importance of Nanoscience and Nanotechnology Education. <i>Science Policy Reports</i> , 2016, , 1-31.	0.1	10
604	Surface charge-induced EDL interaction on the contact angle of surface nanobubbles. <i>Langmuir</i> , 2016, 32, 11123-11132.	1.6	10
605	Friction and wear of various polymer pairs used for label and wiper in labeling machine. <i>Tribology International</i> , 2016, 98, 10-19.	3.0	10
606	Plant Surfaces: Structures and Functions for Biomimetic Applications. <i>Springer Handbooks</i> , 2017, , 1265-1305.	0.3	10
607	Detection and defense mechanisms against wormhole attacks in wireless sensor networks. , 2017, , .		10
608	Fabrication of superoleophobic cotton fabric for multi-purpose applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190129.	1.6	10
609	Water droplet dynamics on bioinspired conical surfaces. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190118.	1.6	10
610	A Hybrid Secure and Energy Efficient Cluster Based Intrusion Detection system for Wireless Sensing Environment. , 2019, , .		10
611	Enhancement of security and energy efficiency in WSNs: Machine Learning to the rescue. , 2019, , .		10
612	Traversing the "œmic landscape of microbial halotolerance for key molecular processes and new insights. <i>Critical Reviews in Microbiology</i> , 2020, 46, 631-653.	2.7	10

#	ARTICLE	IF	CITATIONS
613	Importunity & Evolution of IoT for 5G. , 2020, , .		10
614	Static evaluation of surface coatings for compliant gas bearings in an oxidizing atmosphere to 650Å°C. Thin Solid Films, 1978, 53, 313-331.	0.8	9
615	A study by scanning electron microscopy of magnetic head-disk interface sliding. Wear, 1990, 139, 367-381.	1.5	9
616	Grain Boundary and Crystallographic Orientation Effects on Friction. Tribology Transactions, 2000, 43, 33-38.	1.1	9
617	Long-term mechanical and viscoelastic behavior of constitutive polymeric materials used for magnetic tapes. Journal of Applied Polymer Science, 2001, 81, 1142-1160.	1.3	9
618	Micro/nano-scale differential wear of multiphase materials: pole tip recession in magnetic-tape heads. Wear, 2002, 252, 103-122.	1.5	9
619	New technique for monitoring lateral tape motion using a magnetic signal. Microsystem Technologies, 2006, 12, 565-570.	1.2	9
620	Generation of Composite Surfaces With Bimodal Distribution and Contact Analysis for Optimum Tribological Performance. Journal of Tribology, 2006, 128, 851-864.	1.0	9
621	Humidity effect on the interaction between carbon nanotubes and graphite. Applied Surface Science, 2010, 256, 4672-4676.	3.1	9
622	Chemical bonding and degradation of ultrathin liquid films for nanolubrication of sliding components in adaptive optics. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2010, 369, 39-52.	2.3	9
623	Effect of Deposition Gas Ratio, RF Power, and Substrate Temperature on the Charging/Discharging Processes in PECVD Silicon Nitride Films for Electrostatic NEMS/MEMS Reliability Using Atomic Force Microscopy. Journal of Microelectromechanical Systems, 2011, 20, 1395-1418.	1.7	9
624	Interfacial design and structure of protein/polymer films on oxidized AlGaN surfaces. Journal Physics D: Applied Physics, 2011, 44, 034010.	1.3	9
625	Access to care for children with symptoms of sleep disordered breathing. International Journal of Pediatric Otorhinolaryngology, 2012, 76, 1671-1673.	0.4	9
626	Nanoscale adhesion, friction and wear of proteins on polystyrene. Colloids and Surfaces B: Biointerfaces, 2013, 102, 484-491.	2.5	9
627	Effect of Nanoparticles on Nanomechanical and Nanotribological Properties of Polyethylene Blend Films. Macromolecular Reaction Engineering, 2013, 7, 538-548.	0.9	9
628	Association of humoral response to classical swine fever vaccination with single nucleotide polymorphisms of swine leukocyte antigens. Journal of Applied Animal Research, 2016, 44, 99-103.	0.4	9
629	Optimization of mixed aonla-guava fruit bar using response surface methodology. Nutrition and Food Science, 2018, 48, 621-630.	0.4	9
630	Bioinspired conical design for efficient water collection from fog. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190125.	1.6	9

#	ARTICLE	IF	CITATIONS
631	Emerging Trends in Machine Learning. , 2019, , .		9
632	Spontaneous transport of air bubbles on bioinspired superhydrophilic triangular patterns. Journal of Colloid and Interface Science, 2020, 575, 399-405.	5.0	9
633	Bis[n(chlorophenyl)dithiocarbamato] complexes of Cu(II), Zn(II), Cd(II) and Sn(II). Thermochemica Acta, 1984, 76, 345-357.	1.2	8
634	BisN(chlorophenyl)dithiocarbamato complexes of cobalt(II), nickel(II), palladium(II) and platinum(II). Transition Metal Chemistry, 1984, 9, 250-255.	0.7	8
635	Dielectric behaviour of ZnO-based ceramic semiconductors. Bulletin of Materials Science, 1987, 9, 169-180.	0.8	8
636	Friction and Wear of Ceramics for Magnetic Recording Applicationsâ€”Part II: Friction Measurements. Journal of Tribology, 1991, 113, 313-317.	1.0	8
637	Friction and wear of ultrahighâ€”density magnetic tapes. Journal of Applied Physics, 1994, 75, 5771-5773.	1.1	8
638	Role of water vapor on the wear of Mnâ€”Zn ferrite heads sliding against magnetic tapes. Wear, 1996, 202, 30-34.	1.5	8
639	Gecko Feet: Natural Attachment Systems for Smart Adhesion. Nanoscience and Technology, 2007, , 41-76.	1.5	8
640	Noble metal-coated probes sliding at up to 100 mm sâ€”1 against PZT films for AFM probe-based ferroelectric recording technology. Journal of Physics Condensed Matter, 2008, 20, 225013.	0.7	8
641	Protein conformation changes on block copolymer surfaces detected by antibodyâ€”functionalized atomic force microscope tips. Journal of Biomedical Materials Research - Part A, 2012, 100A, 18-25.	2.1	8
642	No change in mRNA expression of immune-related genes in peripheral blood mononuclear cells challenged with Theileria annulata in Murrah buffalo (Bubalus bubalis). Ticks and Tick-borne Diseases, 2016, 7, 754-758.	1.1	8
643	Bioinspired self-healing, superliquiphobic and self-cleaning hydrogel-coated surfaces with high durability. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190117.	1.6	8
644	Frontiers in nanotribology: Magnetic storage, bio/nanotechnology, cosmetics, and bioinspiration. Journal of Colloid and Interface Science, 2020, 577, 127-162.	5.0	8
645	Contact angles and movement of air bubbles on bioinspired conical surfaces. Journal of Colloid and Interface Science, 2020, 577, 530-541.	5.0	8
646	Neoteric Security and Privacy Sanctuary Technologies in Smart Cities. , 2020, , .		8
647	MEMS/NEMS and BioMEMS/BioNEMS: Materials, Devices, and Biomimetics. , 2011, , 833-945.		8
648	Mimicking high strength lightweight novel structures inspired from the trabecular bone microarchitecture. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190448.	1.6	8

#	ARTICLE	IF	CITATIONS
649	An iteration method for the large amplitude flexural vibration of antisymmetric cross-ply rectangular plates. <i>Composite Structures</i> , 1991, 18, 263-282.	3.1	7
650	A model of pole tip recession growth in magnetic heads. <i>Journal of Applied Physics</i> , 2002, 91, 8328.	1.1	7
651	Mechanical, hygroscopic, and thermal properties of metal particle and metal evaporated tapes and their individual layers. <i>Journal of Applied Polymer Science</i> , 2004, 92, 1319-1345.	1.3	7
652	Effect of polyhedral oligomeric silsesquioxane concentration on the friction and wear of dental polymers. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 2010, 28, 713-718.	0.9	7
653	Tribology and Superhydrophobicity of Laser-Controlled-Melted Alumina Surfaces with Hard Particles. <i>Jom</i> , 2014, 66, 1068-1079.	0.9	7
654	Effect of Surface Charge on the Nanofriction and Its Velocity Dependence in an Electrolyte Based on Lateral Force Microscopy. <i>Langmuir</i> , 2017, 33, 1792-1798.	1.6	7
655	Differential expression of ten candidate genes regulating prostaglandin action in reproductive tissues of buffalo during estrous cycle and pregnancy. <i>Theriogenology</i> , 2018, 105, 7-14.	0.9	7
656	Blockchain for Internet of Things: Architecture, Consensus Advancements, Challenges and Application Areas. , 2019, , .		7
657	Monitoring of Input and Output Water Quality in Treatment of Urban Waste Water Using IOT and Artificial Neural Network. , 2019, , .		7
658	Scanning Probe Microscopyâ€™Principle of Operation, Instrumentation, and Probes. , 2017, , 33-93.		7
659	Modeling of Tip-Cantilever Dynamics in Atomic Force Microscopy. <i>Nanoscience and Technology</i> , 2007, , 149-223.	1.5	7
660	Gecko Feet: Natural Hairy Attachment Systems for Smart Adhesion. , 2011, , 701-767.		7
661	Isolation, Screening and Optimized Production of Extracellular Xylanase under Submerged Condition from <i>Aspergillus Flavus</i> Mtcc 9390. <i>Enzyme Engineering</i> , 2012, 01, .	0.3	7
662	Surface pretreatment of thin inconel X-750 foils for improved coating adherence. <i>Thin Solid Films</i> , 1978, 53, 99-107.	0.8	6
663	Voltage contrast imaging of barriers in ceramic semiconductors. <i>Journal of Applied Physics</i> , 1983, 54, 1610-1612.	1.1	6
664	Osteopathia Striata with Cranial Sclerosis. <i>Journal of Medical Imaging and Radiation Oncology</i> , 1990, 34, 249-252.	0.6	6
665	Tribological studies of various magnetic heads and thin-film rigid disks. <i>Wear</i> , 1992, 153, 65-78.	1.5	6
666	Characterization of lipase from an alkalophilic yeast sp.. <i>Biotechnology Letters</i> , 1994, 16, 837-840.	1.1	6

#	ARTICLE	IF	CITATIONS
667	Thermal considerations for the edge guiding of thin magnetic tape in a longitudinal tape transport. <i>Wear</i> , 1994, 171, 179-193.	1.5	6
668	Ultrathin Liquid Lubrication of Magnetic Head-Rigid Disk Interface for Near-Contact Recording: Part II-Shear Thinning and Thermal Thinning. <i>Journal of Tribology</i> , 1996, 118, 396-401.	1.0	6
669	The relationship between dynamic mechanical behavior, transverse curvature, and wear of magnetic tapes. <i>Wear</i> , 1996, 202, 17-29.	1.5	6
670	Erratum to "Effect of normal load on microscale friction measurements" [Thin Solid Films, 278 (1996) 49-56]. <i>Thin Solid Films</i> , 1997, 293, 333.	0.8	6
671	Studies on Degradation Mechanisms of Tape Lubricants in a High Vacuum Environment. , 2001, 11, 133-141.		6
672	Introduction to Nanotechnology. , 2004, , 1-6.		6
673	Finite element analysis of the magnetic tape slitting process. <i>Journal of Materials Processing Technology</i> , 2005, 166, 205-217.	3.1	6
674	Effects of Different Magnetic Tapes and Operating Parameters on Lateral Tape Motion in a Linear Tape Drive. <i>Tribology Transactions</i> , 2006, 49, 347-360.	1.1	6
675	Laser Treatment of Sintered Silicon Carbide Surface for Enhanced Hydrophobicity. <i>Jom</i> , 2014, 66, 87-94.	0.9	6
676	Study on the Formation and Properties of Trapped Nanobubbles and Surface Nanobubbles by Spontaneous and Temperature Difference Methods. <i>Langmuir</i> , 2019, 35, 12035-12041.	1.6	6
677	<i>In vivo</i> structural dynamic analysis of the dragonfly wing: the effect of stigma as its modulator. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20190132.	1.6	6
678	Precedence & Issues of IoT based on Edge Computing. , 2020, , .		6
679	Security Challenges & Controls in Cyber Physical System. , 2020, , .		6
680	Movement of air bubbles under various liquids using bioinspired conical surfaces. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 41-50.	5.0	6
681	Scanning Probe Microscopy - Principle of Operation, Instrumentation, and Probes. , 2005, , 41-115.		6
682	Effect of infrared lamps to ameliorate cold stress in Vrindavani calves. <i>Veterinary World</i> , 2015, 8, 777-782.	0.7	6
683	An In-depth Analysis of Various Steganography Techniques. <i>International Journal of Security and Its Applications</i> , 2015, 9, 67-94.	0.5	6
684	Ashwagandha Root Extract Inhibits Acetylcholine Esterase, Protein Modification and Ameliorates H ₂ O ₂ -Induced Oxidative Stress in Rat Lymphocytes. <i>Pharmacognosy Journal</i> , 2017, 9, 302-309.	0.3	6

#	ARTICLE	IF	CITATIONS
685	Bending stiffness measurements of magnetic tapes and substrates. <i>Thin Solid Films</i> , 1997, 308-309, 323-328.	0.8	5
686	Effect of Particulate Contamination on Pole Tip Recession in a Linear Tape Drive. <i>Tribology Letters</i> , 2002, 12, 235-245.	1.2	5
687	Technique development and measurement of Poisson's ratio, lateral creep behavior, and thermal and hygroscopic expansion of individual layers in magnetic tapes. <i>Journal of Applied Polymer Science</i> , 2003, 88, 2082-2096.	1.3	5
688	Dynamic mechanical and thermal analyses of magnetic particle and metal evaporated tapes and their individual layers. <i>Journal of Applied Polymer Science</i> , 2003, 89, 548-567.	1.3	5
689	Modeling of creep and shrinkage behavior of polymeric films used in magnetic tapes. <i>Journal of Applied Polymer Science</i> , 2004, 91, 78-88.	1.3	5
690	Self-Assembled Monolayers for Controlling Adhesion, Friction and Wear. , 2005, , 885-928.		5
691	Magnetic evaluation of advanced metal-evaporated tape in an advanced linear tape drive. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 308, 153-164.	1.0	5
692	Effect of temperature on nanowear of platinum-coated probes sliding against coated silicon wafers for probe-based recording technology. <i>Acta Materialia</i> , 2008, 56, 380-386.	3.8	5
693	Dry and Wet Contact Modeling of Multilayered Rough Solid Surfaces. <i>Applied Mechanics Reviews</i> , 2008, 61, 050803.	4.5	5
694	Biomimetics Inspired Surfaces for Superhydrophobicity, Self-cleaning, Low Adhesion, and Drag Reduction. , 2011, , 533-699.		5
695	Protein adhesion of block copolymer surfaces. <i>Colloid and Polymer Science</i> , 2011, 289, 219-225.	1.0	5
696	Slip Length Measurement of Confined Air Flow on Three Smooth Surfaces. <i>Langmuir</i> , 2013, 29, 4298-4302.	1.6	5
697	Role of liquid repellency on fluid slip, fluid drag, and formation of nanobubbles. <i>Microsystem Technologies</i> , 2017, 23, 4367-4390.	1.2	5
698	Extraction and Evaluation of Antioxidant and Free Radical Scavenging Potential Correlated with Biochemical Components of Red Rose Petals. <i>Iranian Journal of Science and Technology, Transaction A: Science</i> , 2018, 42, 1027-1036.	0.7	5
699	Insects locomotion, piercing, sucking and stinging mechanisms. <i>Microsystem Technologies</i> , 2018, 24, 4703-4728.	1.2	5
700	Effect of vein microstructure and nanomechanical behaviors on wind-resistant performance of Asian ladybeetle hindwing. <i>Tribology International</i> , 2020, 142, 105719.	3.0	5
701	Water collection and transport in bioinspired nested triangular patterns. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2020, 378, 20190441.	1.6	5
702	Micro/Nanotribology of MEMS/NEMS Materials and Devices. , 2005, , 1031-1089.		5

#	ARTICLE	IF	CITATIONS
703	Torsional Resonance Microscopy and Its Applications. Nanoscience and Technology, 2007, , 113-148.	1.5	5
704	Genotyping of major histocompatibility complex Class II DRB gene in Rohilkhandi goats by polymerase chain reaction-restriction fragment length polymorphism and DNA sequencing. Veterinary World, 2015, 8, 1183-1188.	0.7	5
705	Growth, quality and pest infestation in tomato under protected cultivation in semi-arid region of Punjab. Indian Journal of Horticulture, 2015, 72, 518.	0.1	5
706	Smart Surveillance Systems with Edge Intelligence: Convergence of Deep Learning and Edge Computing. SSRN Electronic Journal, 0, , .	0.4	5
707	Influence of Abrasive Properties on Residual Stresses in Lapped Ferrite and Alumina. Journal of the American Ceramic Society, 1990, 73, 1907-1911.	1.9	4
708	Processing of diamond/alumina composites for low wear applications. Journal of Materials Research, 1992, 7, 3010-3018.	1.2	4
709	Macro- and microtribology of magnetic rigid-disk storage devices. Journal of Magnetism and Magnetic Materials, 1996, 155, 318-322.	1.0	4
710	Wear and friction studies of contact recording interface with microfabricated heads. Wear, 1996, 202, 60-67.	1.5	4
711	Erratum to "Tribological studies of chromium oxide films for magnetic recording applications"[Thin Solid Films, 311 (1997) 67-80]. Thin Solid Films, 1998, 320, 330.	0.8	4
712	Vibration analysis of axially moving magnetic tape with comparisons to static and dynamic experimental results. Microsystem Technologies, 2007, 13, 689-699.	1.2	4
713	Nanomechanical characterization of adaptive optics components in microprojectors. Journal of Micromechanics and Microengineering, 2010, 20, 064002.	1.5	4
714	New insights into reliability of electrostatic capacitive RF MEMS switches. International Journal of Microwave and Wireless Technologies, 2011, 3, 571-586.	1.5	4
715	An extension to switching bilateral filter for mixed noise removal from colour image. International Journal of Signal and Imaging Systems Engineering, 2016, 9, 1.	0.6	4
716	Nanofabrication Techniques Used for Superhydrophobic Surfaces. Springer Series in Materials Science, 2018, , 109-119.	0.4	4
717	Innovative approach to Wireless Sensor Networks: SD-WSN. , 2019, , .		4
718	Bioinspired movement of gas bubbles: composition, applications, generation, contact angle, and movement " an overview. Molecular Systems Design and Engineering, 2020, 5, 1555-1577.	1.7	4
719	Accelerated Computer Vision Inference with AI on the Edge. , 2020, , .		4
720	Security Issues & Seclusion in Bitcoin System. , 2020, , .		4

#	ARTICLE	IF	CITATIONS
721	A New Efficient Architecture for Adaptive Bit-Rate Video Streaming. Sustainability, 2021, 13, 4541.	1.6	4
722	Introducing Machine Learning to Wireless Sensor Networks. Advances in Information Security, Privacy, and Ethics Book Series, 2020, , 1-22.	0.4	4
723	Development of CdO-graphite-Ag coatings for gas bearings to 427 Â°C. Wear, 1982, 75, 333-356.	1.5	3
724	Indian Science Citation Index: a strategy. Data Technologies and Applications, 1991, 25, 59-67.	0.8	3
725	Wear studies of contact recording interface with a microfabricated head. Journal of Applied Physics, 1996, 79, 5791.	1.1	3
726	Origins of friction and wear of the thin metallic layer of metal evaporated magnetic tape. Wear, 1999, 224, 126-140.	1.5	3
727	Effect of Magnetic-Head Slot Orientation on Pole Tip Recession and Debris Generation in Linear Tape Drives. Tribology Transactions, 2001, 44, 263-269.	1.1	3
728	Effect of operating environment on headâ€tape interface in a linear tape drive. Journal of Magnetism and Magnetic Materials, 2003, 261, 277-294.	1.0	3
729	Mechanical Properties of Nanostructures. , 2011, , 527-584.		3
730	Enzyme adsorption on polymer-based confined bioinspired biosensing surface. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2012, 30, .	0.9	3
731	Device level studies of adaptive optics sliding components in microprojectors. Microsystem Technologies, 2012, 18, 137-148.	1.2	3
732	Single- and Two-Layer Coatings of Metal Blends onto Carbon Steel: Mechanical, Wear, and Friction Characterizations. Jom, 2014, 66, 37-45.	0.9	3
733	Growth and yield attributes of commercial guava (Psidium guajava L.) cultivars under sub-tropical condition. Indian Journal of Plant Physiology, 2014, 19, 79-82.	0.8	3
734	Differential response of immune-related genes to peptidoglycan and lipoteichoic acid challenge in vitro. Veterinary World, 2016, 9, 983-988.	0.7	3
735	Nanotribology and Nanomechanics of MEMS/NEMS and BioMEMS/BioNEMS Materials and Devices. , 2017, , 797-907.		3
736	MEMS/NEMS and BioMEMS/BioNEMS: Tribology, Mechanics, Materials and Devices. Springer Handbooks, 2017, , 1331-1416.	0.3	3
737	Skimmer Bird Beak (Rynchops) Surface for Fluid Drag Reduction in Turbulent Flow. Springer Series in Materials Science, 2018, , 563-576.	0.4	3
738	Characterization of Rose Petals and Fabrication and Characterization of Superhydrophobic Surfaces with High and Low Adhesion. Springer Series in Materials Science, 2018, , 259-287.	0.4	3

#	ARTICLE	IF	CITATIONS
739	Fabrication of bioinspired, self-cleaning, anti-icing, superliquiphilic/phobic titanium using different pathways. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180273.	1.6	3
740	Micro/Nanotribology and Micro/Nanomechanics of Magnetic Storage Devices. , 2017, , 749-796.		3
741	Introduction “ Measurement Techniques and Applications. , 2011, , 1-34.		3
742	Micro/Nanotribology Studies Using Scanning Probe Microscopy. Nanoscience and Technology, 2004, , 171-205.	1.5	3
743	Study on genetic variation of Short Tandem Repeats (STR) markers and their association with Somatic Cell Scores (SCS) in crossbred cows. Indian Journal of Animal Research, 2015, , .	0.0	3
744	A Methodological Comparison of the Most Efficient Load Balancing Algorithms in Cloud Computing. SSRN Electronic Journal, 0, , .	0.4	3
745	Physicochemical Characterization of Selected Pomegranate (Punica granatum L.) Cultivars. Turkish Journal of Agricultural Engineering Research, 2021, 2, 425-433.	0.2	3
746	Postbuckling of elliptical plates. Mechanics Research Communications, 1994, 21, 89-94.	1.0	2
747	Micro/nanoscale tribological and mechanical characterization for MEMS/NEMS. , 2004, , .		2
748	Micro-/nanoscale tribological and mechanical characterization for MEMS/NEMS. , 2004, , .		2
749	Comparative analysis and associated failure mechanisms of magnetic media in advanced linear tape drives. Microsystem Technologies, 2006, 12, 485-528.	1.2	2
750	Lotus Effect: Roughness-Induced Superhydrophobicity. Nanoscience and Technology, 2007, , 1-40.	1.5	2
751	Study of magnitude and component frequency variation of lateral tape motion across an unsupported tape region. Microsystem Technologies, 2008, 14, 427-438.	1.2	2
752	The surface microstructure of cusps and leaflets in rabbit and mouse heart valves. Beilstein Journal of Nanotechnology, 2014, 5, 622-629.	1.5	2
753	Single nucleotide polymorphism mining and nucleotide sequence analysis of Mx1 gene in exonic regions of Japanese quail. Veterinary World, 2015, 8, 1435-1443.	0.7	2
754	Optimization of Upstream Process Parameters for Enhanced Production of Thermostable Milk Clotting Enzyme from <i>Bacillus Subtilis</i> MTCC 10422. Journal of Food Process Engineering, 2017, 40, e12356.	1.5	2
755	Nanomechanical Properties of Nanostructures and Scale Effects. , 2017, , 253-299.		2
756	Global Perspectives of Nanotechnology Education. Springer Handbooks, 2017, , 1603-1624.	0.3	2

#	ARTICLE	IF	CITATIONS
757	Insects Locomotion, Piercing, Sucking and Stinging Mechanisms. Springer Series in Materials Science, 2018, , 819-860.	0.4	2
758	Roughness-Induced Superliquiphilic/Phobic Surfaces: Wetting States and Lessons from Living Nature. Springer Series in Materials Science, 2018, , 39-49.	0.4	2
759	Modeling of Contact Angle for a Liquid in Contact with a Rough Surface for Various Wetting Regimes. Springer Series in Materials Science, 2018, , 51-80.	0.4	2
760	Plant Leaf Surfaces in Living Nature. Springer Series in Materials Science, 2018, , 81-107.	0.4	2
761	Shark Skin Surface for Fluid-Drag Reduction in Turbulent Flow. Springer Series in Materials Science, 2018, , 491-562.	0.4	2
762	Micro/Nanotribology and Materials Characterization Studies Using Scanning Probe Microscopy. , 2005, , 315-387.		2
763	Gecko Feet: Natural Attachment Systems for Smart Adhesion-Mechanism, Modeling, and Development of Bio-Inspired Materials. , 2008, , 1-61.		2
764	Calibration of Normal and Lateral Forces in Cantilevers Used in Atomic Force Microscopy. , 2011, , 135-193.		2
765	Optimization of Process Variables for Preparation of Pomegranate Juice-Fortified Aonla Candy. Current Science, 2020, 118, 114.	0.4	2
766	Evaluation of Salt Tolerance in Different Isabgol (Plantago ovata Forsk.) Genotypes under Differential Salt Stress Imposition. Indian Journal of Agricultural Biochemistry, 2017, 30, 41.	0.1	2
767	Framework and Methodological Solutions for Cyber Security in Industry 4.0. SSRN Electronic Journal, 0, , .	0.4	2
768	Introduction to nature-inspired solutions for engineering. Molecular Systems Design and Engineering, 2021, 6, 984-985.	1.7	2
769	Bone Metastasis from Carcinoma of the Oesophagus. Journal of Medical Imaging and Radiation Oncology, 1987, 31, 414-417.	0.6	1
770	Osteosclerotic Metastasis from Thyroid Carcinoma. Journal of Medical Imaging and Radiation Oncology, 1987, 31, 204-207.	0.6	1
771	Tribology and Mechanics of Magnetic Storage Devices. Journal of Tribology, 1990, 112, 575-575.	1.0	1
772	Pattern of Skin Diseases in the Leh-Ladakh Region of India. International Journal of Dermatology, 1994, 33, 674-675.	0.5	1
773	Ultrasound diagnosis of para-testicular neoplasm. , 1996, 24, 375-377.		1
774	Effect of magnetic tape thickness on friction and wear in a linear tape drive. Wear, 2003, 255, 1323-1333.	1.5	1

#	ARTICLE	IF	CITATIONS
775	Durability studies of head-disk interface using padded and load/unload picosliders for magnetic rigid disk drives. <i>Wear</i> , 2003, 255, 1334-1343.	1.5	1
776	Micro-/nanoscale tribology and mechanics of MEMS/NEMS materials, lubricants and devices. , 2003, , .		1
777	Mechanical Properties of Nanostructures. , 2005, , 731-771.		1
778	Nanoscratch Studies of Uncoated and Coated Ceramic Matrix Composite Materials. <i>Journal of the American Ceramic Society</i> , 2006, 89, 2542-2546.	1.9	1
779	Measurement and mechanism of pole tip recession with advanced metal evaporated tape at low tension in a linear tape drive. <i>Microsystem Technologies</i> , 2006, 12, 193-203.	1.2	1
780	A videographic method of measuring lateral tape motion in a linear tape drive. <i>Measurement Science and Technology</i> , 2006, 17, 2683-2688.	1.4	1
781	New delay-integration method for resolving individual components of a pair of composite signals. <i>Review of Scientific Instruments</i> , 2007, 78, 085110.	0.6	1
782	Contact Analysis of a Nanocomposite Surface with Two Particle Size Distributions for Magnetic Particulate Tapes. <i>Tribology Transactions</i> , 2007, 50, 165-177.	1.1	1
783	Scale Effect in Mechanical Properties and Tribology. , 2011, , 293-344.		1
784	Biosensors: surface structures and materials. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2267-2268.	1.6	1
785	Nanomechanical Characterization of Solid Surfaces and Thin Films. , 2017, , 177-251.		1
786	Biological Molecules in Therapeutic Nanodevices. <i>Springer Handbooks</i> , 2017, , 693-722.	0.3	1
787	Scanning Probe Microscopy – Principle of Operation, Instrumentation and Probes. <i>Springer Handbooks</i> , 2017, , 725-768.	0.3	1
788	Bioinspired Nanostructured Anti-Biofouling and Anti-inorganic Surfaces. <i>Springer Handbooks</i> , 2017, , 1307-1327.	0.3	1
789	Relative expression of oxytocin receptor gene in buffalo endometrium in late luteal phase and pregnancy stages. <i>Journal of Applied Animal Research</i> , 2018, 46, 146-149.	0.4	1
790	Bio- and Inorganic Fouling. <i>Springer Series in Materials Science</i> , 2018, , 621-664.	0.4	1
791	Bioinspired Strategies for Water Collection and Water Purification. <i>Springer Series in Materials Science</i> , 2018, , 665-701.	0.4	1
792	Self-healing Materials and Defense Mechanisms. <i>Springer Series in Materials Science</i> , 2018, , 911-958.	0.4	1

#	ARTICLE	IF	CITATIONS
793	Fabrication and Characterization of Mechanically Durable Superliquiphobic Surfaces. Springer Series in Materials Science, 2018, , 429-490.	0.4	1
794	Bioinspired materials and surfaces for green science and technology. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180336.	1.6	1
795	Molecular Characterization of Mx1 Gene in Native Indian Breeds of Chicken. Animal Biotechnology, 2019, 30, 113-117.	0.7	1
796	A Comprehensive Survey on various Security Authentication Schemes for Mobile Touch Screen. , 2020, , .		1
797	Producing Energy Using Blind Man Stick. , 2020, , .		1
798	Bioinspired materials and surfaces for green science and technology (partÂ3). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2020, 378, 20190439.	1.6	1
799	Scale Effect in Mechanical Properties and Tribology. , 2005, , 773-824.		1
800	Calibration of Normal and Lateral Forces in Cantilevers Used in Atomic Force Microscopy. , 2017, , 95-134.		1
801	Applications of Scanning Probe Methods in Chemical Mechanical Planarization. , 2008, , 131-151.		1
802	Self-Assembled Monolayers for Nanotribology and Surface Protection. , 2011, , 403-460.		1
803	Nanotribology of Ultrathin and Hard Amorphous Carbon Films. , 2011, , 347-402.		1
804	Nanoscale Boundary Lubrication Studies. , 2017, , 689-746.		1
805	Nanotribology of Ultrathin and Hard Amorphous Carbon Films. , 2017, , 593-640.		1
806	Optimization of button mushroom browning inhibition using response surface methodology. Indian Journal of Horticulture, 2018, 75, 470.	0.1	1
807	Application, Classification and System Requirements of Blockchain Technology. SSRN Electronic Journal, 0, , .	0.4	1
808	On a semiempirical friction model for solid-lubricated rolling-sliding contact. Wear, 1982, 82, 387-390.	1.5	0
809	Dyschondrosteosis. Journal of Medical Imaging and Radiation Oncology, 1984, 28, 39-41.	0.6	0
810	Instabilities in the Mechanical Stress in Deposited SiO2 Films Caused by Thermal Treatments. Materials Research Society Symposia Proceedings, 1990, 181, 463.	0.1	0

#	ARTICLE	IF	CITATIONS
811	Discussion: "Dependence of Nano-Friction and Nano-Wear on Loading Force for Sharp Diamond Tips Sliding on Si, Mn-Zn Ferrite, and Au" (Jiang, Zhaoguo, Lu, C.-J., Bogy, D. B., and Miyamoto, T., 1995, ASME J. Tribol.)	1.0	4314
812	Discussion: "Simultaneous Measurement of Surface Topography and Friction Force by a Single-Head Lateral Force Microscope" (Lu, C.-J., Jiang, Zhaoguo, Bogy, D. B., and Miyamoto, T., 1995, ASME J. Tribol.)	1.0	0
813	Continuation and change. <i>Microsystem Technologies</i> , 2003, 9, 379-380.	1.2	0
814	Effects of varying operating tension and speed on lateral tape motion in MP and AME tapes using magnetic signal and optical probe methods. <i>Journal of Magnetism and Magnetic Materials</i> , 2007, 312, 480-492.	1.0	0
815	Study of durability and lateral tape motion of magnetic tape data storage media under high-speed operating conditions using magnetic and edge probe methods. <i>Microsystem Technologies</i> , 2008, 14, 841-853.	1.2	0
816	Preface. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2008, 366, 1349-1349.	1.6	0
817	Material, Mechanical, and Tribological Characterization of Laser-Treated Surfaces. <i>Journal of Thermal Spray Technology</i> , 2014, 23, 1210-1224.	1.6	0
818	Commentary: Science and tech policy needs scientists' input. <i>Physics Today</i> , 2015, 68, 8-10.	0.3	0
819	Preface. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2016, 374, 20160136.	1.6	0
820	Nanotribology, Nanomechanics and Materials Characterization Studies Using Scanning Probe Microscopy. , 2017, , 373-455.		0
821	Self-assembled Monolayers (SAMs) for Nanotribology and Surface Protection. , 2017, , 641-688.		0
822	Nanotribology, Nanomechanics and Materials Characterization. <i>Springer Handbooks</i> , 2017, , 869-934.	0.3	0
823	Nanomechanical Properties of Nanostructures and Scale Effects. <i>Springer Handbooks</i> , 2017, , 1101-1137.	0.3	0
824	Nanotribology of Ultrathin and Hard Amorphous Carbon Films. <i>Springer Handbooks</i> , 2017, , 1141-1178.	0.3	0
825	Self-Assembled Monolayers for Nanotribology and Surface Protection. <i>Springer Handbooks</i> , 2017, , 1179-1214.	0.3	0
826	Nanoscale Boundary Lubrication Studies. <i>Springer Handbooks</i> , 2017, , 1215-1261.	0.3	0
827	Gecko Adhesion. <i>Springer Series in Materials Science</i> , 2018, , 739-817.	0.4	0
828	Role of Liquid Repellency on Fluid Slip, Fluid Drag, and Formation of Nanobubbles. <i>Springer Series in Materials Science</i> , 2018, , 703-738.	0.4	0

#	ARTICLE	IF	CITATIONS
829	Fabrication and Characterization of Mechanically Durable Superhydrophobic Surfaces. Springer Series in Materials Science, 2018, , 199-248.	0.4	0
830	Strategies for Superliquiphobic/Philic Surfaces. Springer Series in Materials Science, 2018, , 289-325.	0.4	0
831	Adaptable Fabrication Techniques for Mechanically Durable Superliquiphobic/philic Surfaces. Springer Series in Materials Science, 2018, , 327-427.	0.4	0
832	Structural Coloration. Springer Series in Materials Science, 2018, , 879-910.	0.4	0
833	Strategies for Micropatterned, Nanopatterned, and Hierarchically Structured Lotus-like Surfaces. Springer Series in Materials Science, 2018, , 121-197.	0.4	0
834	Fabrication and Characterization of Micropatterned Structures Inspired by Salvinia molesta. Springer Series in Materials Science, 2018, , 249-257.	0.4	0
835	Bioinspired materials and surfaces for green science and technology (partÂ2). Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20190198.	1.6	0
836	Anthocyanins and Proanthocyanidins as Anticancer Agents. , 2021, , 95-124.		0
837	Development of MOEMS Devices and Their Reliability Issues. Nanoscience and Technology, 2007, , 349-366.	1.5	0
838	Capillary Adhesion and Nanoscale Properties of Water. Nanoscience and Technology, 2011, , 551-571.	1.5	0
839	Micro/Nanotribology and Micro/Nanomechanics of Magnetic Storage Devices. , 2011, , 771-831.		0
840	Nanoscale Boundary Lubrication Studies. , 2011, , 461-530.		0
841	Molecular characterization of lactoferrin gene and its association with mastitis in crossbred cattle. Indian Journal of Animal Research, 2015, 49, .	0.0	0
842	Nucleotide sequence analysis of Mx1 gene in Japanese quail. Indian Journal of Animal Research, 2015, , .	0.0	0
843	Role of Infrared lamps in cold stress alleviation during winter in Murrah calves. Indian Journal of Animal Research, 2015, , .	0.0	0
844	Influence of particle size on rheological properties of mango peel powder. Indian Journal of Horticulture, 2017, 74, 627.	0.1	0
845	Introductionâ€”Measurement Techniques and Applications. , 2017, , 1-29.		0
846	Scale Effect in Mechanical Properties and Tribology. , 2017, , 549-589.		0

#	ARTICLE	IF	CITATIONS
847	The Dark Web: A Dive Into the Darkest Side of the Internet. SSRN Electronic Journal, 0, , .	0.4	0
848	Enhancement of Security using Various Web Development Frameworks. SSRN Electronic Journal, 0, , .	0.4	0
849	High Sliding Velocity Nanotribological Investigations of Materials for Nanotechnology Applications. , 2008, , 283-310.		0