

Bharat Bhushan

List of Publications by Year in descending order

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1,020
papers

56,151
citations

1171

111
h-index

2381

198
g-index

1100
all docs

1100
docs citations

1100
times ranked

33604
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	A review of nanoindentation continuous stiffness measurement technique and its applications. <i>Materials Characterization</i> , 2002, 48, 11-36.	1.9	1,275
4	Biomimetics: lessons from nature—“an overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2009, 367, 1445-1486.	1.6	993
5	Multifunctional surface structures of plants: An inspiration for biomimetics. <i>Progress in Materials Science</i> , 2009, 54, 137-178.	16.0	756
6	Bioinspired self-cleaning surfaces with superhydrophobicity, superoleophobicity, and superhydrophilicity. <i>RSC Advances</i> , 2013, 3, 671-690.	1.7	702
7	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
8	Diversity of structure, morphology and wetting of plant surfaces. <i>Soft Matter</i> , 2008, 4, 1943.	1.2	613
9	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
10	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
11	Tribology and Mechanics of Magnetic Storage Devices. , 1996, , .		539
12	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
13	Fabrication of Superhydrophobic Surfaces with High and Low Adhesion Inspired from Rose Petal. <i>Langmuir</i> , 2010, 26, 8207-8217.	1.6	440
14	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
15	Self-Cleaning Efficiency of Artificial Superhydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 3240-3248.	1.6	436
16	Biofouling: lessons from nature. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2012, 370, 2381-2417.	1.6	425
17	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
18	Hierarchical structure and mechanical properties of nacre: a review. <i>RSC Advances</i> , 2012, 2, 7617.	1.7	415

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19	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
20	Contact angle, adhesion and friction properties of micro-and nanopatterned polymers for superhydrophobicity. <i>Nanotechnology</i> , 2006, 17, 4970-4980.	1.3	400
21	Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler. <i>Wear</i> , 1995, 190, 76-88.	1.5	390
22	Structural coloration in nature. <i>RSC Advances</i> , 2013, 3, 14862.	1.7	380
23	A Review of Ionic Liquids for Green Molecular Lubrication in Nanotechnology. <i>Tribology Letters</i> , 2010, 40, 247-268.	1.2	378
24	Nanomechanical characterisation of solid surfaces and thin films. <i>International Materials Reviews</i> , 2003, 48, 125-164.	9.4	375
25	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
26	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
27	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
28	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
29	Biomimetic Superhydrophobic Surfaces: Multiscale Approach. <i>Nano Letters</i> , 2007, 7, 2633-2637.	4.5	338
30	Dynamic Effects of Bouncing Water Droplets on Superhydrophobic Surfaces. <i>Langmuir</i> , 2008, 24, 6262-6269.	1.6	323
31	Contact mechanics of rough surfaces in tribology: multiple asperity contact. <i>Tribology Letters</i> , 1998, 4, 1-35.	1.2	321
32	Nanotribology and nanomechanics of MEMS/NEMS and BioMEMS/BioNEMS materials and devices. <i>Microelectronic Engineering</i> , 2007, 84, 387-412.	1.1	320
33	Bioinspired rice leaf and butterfly wing surface structures combining shark skin and lotus effects. <i>Soft Matter</i> , 2012, 8, 11271.	1.2	315
34	Wetting study of patterned surfaces for superhydrophobicity. <i>Ultramicroscopy</i> , 2007, 107, 1033-1041.	0.8	310
35	Plant Surfaces: Structures and Functions for Biomimetic Innovations. <i>Nano-Micro Letters</i> , 2017, 9, 23.	14.4	304
36	Micro- and nanoscale characterization of hydrophobic and hydrophilic leaf surfaces. <i>Nanotechnology</i> , 2006, 17, 2758-2772.	1.3	303

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37	Mechanical characterization of micro/nanoscale structures for MEMS/NEMS applications using nanoindentation techniques. Ultramicroscopy, 2003, 97, 481-494.	0.8	294
38	Modern Tribology Handbook, Two Volume Set. , 0, , .		283
39	Fracture mechanisms of thin amorphous carbon films in nanoindentation. Acta Materialia, 1997, 45, 4453-4461.	3.8	271
40	Roughness optimization for biomimetic superhydrophobic surfaces. Microsystem Technologies, 2005, 11, 535-549.	1.2	270
41	Nanotribological characterization of molecularly thick lubricant films for applications to MEMS/NEMS by AFM. Ultramicroscopy, 2003, 97, 321-340.	0.8	264
42	Fluid Drag Reduction with Sharkâ€™s Skin Riblet Inspired Microstructured Surfaces. Advanced Functional Materials, 2013, 23, 4507-4528.	7.8	261
43	Hierarchical roughness makes superhydrophobic states stable. Microelectronic Engineering, 2007, 84, 382-386.	1.1	258
44	Nanotribology and nanomechanics. Wear, 2005, 259, 1507-1531.	1.5	254
45	Nanoindentation hardness measurements using atomic force microscopy. Applied Physics Letters, 1994, 64, 1653-1655.	1.5	253
46	Wetting transition of water droplets on superhydrophobic patterned surfaces. Scripta Materialia, 2007, 57, 1057-1060.	2.6	253
47	Wetting, adhesion and friction of superhydrophobic and hydrophilic leaves and fabricated micro/nanopatterned surfaces. Journal of Physics Condensed Matter, 2008, 20, 225010.	0.7	250
48	Transparent, Superhydrophobic, and Wear-Resistant Coatings on Glass and Polymer Substrates Using SiO ₂ , ZnO, and ITO Nanoparticles. Langmuir, 2012, 28, 11391-11399.	1.6	245
49	Micromechanical and tribological characterization of doped single-crystal silicon and polysilicon films for microelectromechanical systems devices. Journal of Materials Research, 1997, 12, 54-63.	1.2	244
50	Biologically Inspired Surfaces: Broadening the Scope of Roughness**. Advanced Functional Materials, 2008, 18, 843-855.	7.8	244
51	Hierarchical roughness optimization for biomimetic superhydrophobic surfaces. Ultramicroscopy, 2007, 107, 969-979.	0.8	236
52	Multiscale friction mechanisms and hierarchical surfaces in nano- and bio-tribology. Materials Science and Engineering Reports, 2007, 58, 162-193.	14.8	235
53	An overview of additive manufacturing (3D printing) for microfabrication. Microsystem Technologies, 2017, 23, 1117-1124.	1.2	226
54	Theoretical investigation of the distance dependence of capillary and van der Waals forces in scanning force microscopy. Physical Review B, 2000, 62, 13667-13673.	1.1	222

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55	Tribology and Mechanics of Magnetic Storage Devices. , 1990, , .		221
56	Nanoindentation and picondentation measurements using a capacitive transducer system in atomic force microscopy. Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties, 1996, 74, 1117-1128.	0.7	219
57	Microtribological Characterization of Self-Assembled and Langmuir-Blodgett Monolayers by Atomic and Friction Force Microscopy. Langmuir, 1995, 11, 3189-3198.	1.6	215
58	Fluid drag reduction and efficient self-cleaning with rice leaf and butterfly wing bioinspired surfaces. Nanoscale, 2013, 5, 7685.	2.8	212
59	Measurement of surface topography of magnetic tapes by Mirau interferometry. Applied Optics, 1985, 24, 1489.	2.1	209
60	Effects of particle size, polishing pad and contact pressure in free abrasive polishing. Wear, 1996, 200, 281-295.	1.5	202
61	Blockchain for smart cities: A review of architectures, integration trends and future research directions. Sustainable Cities and Society, 2020, 61, 102360.	5.1	201
62	Anti-fouling properties of microstructured surfaces bio-inspired by rice leaves and butterfly wings. Journal of Colloid and Interface Science, 2014, 419, 114-133.	5.0	198
63	Rice- and butterfly-wing effect inspired self-cleaning and low drag micro/nanopatterned surfaces in water, oil, and air flow. Nanoscale, 2014, 6, 76-96.	2.8	198
64	Bioinspired Structured Surfaces. Langmuir, 2012, 28, 1698-1714.	1.6	196
65	Multiscale Dissipative Mechanisms and Hierarchical Surfaces. Nanoscience and Technology, 2008, , .	1.5	195
66	Patterned Nonadhesive Surfaces: Superhydrophobicity and Wetting Regime Transitions. Langmuir, 2008, 24, 1525-1533.	1.6	193
67	Generalized fractal analysis and its applications to engineering surfaces. Wear, 1995, 180, 17-34.	1.5	191
68	Development of AFM-based techniques to measure mechanical properties of nanoscale structures. Sensors and Actuators A: Physical, 2002, 101, 338-351.	2.0	189
69	Surface characterization and adhesion and friction properties of hydrophobic leaf surfaces. Ultramicroscopy, 2006, 106, 709-719.	0.8	187
70	Scale dependence of micro/nano-friction and adhesion of MEMS/NEMS materials, coatings and lubricants. Nanotechnology, 2004, 15, 1561-1570.	1.3	182
71	Nanotribological properties and mechanisms of alkylthiol and biphenyl thiol self-assembled monolayers studied by AFM. Physical Review B, 2001, 63, .	1.1	180
72	Measurement of fracture toughness of ultra-thin amorphous carbon films. Thin Solid Films, 1998, 315, 214-221.	0.8	179

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73	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
74	Principles and Applications to Tribology. , 2013, , .		171
75	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
76	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
77	Dynamic Effects Induced Transition of Droplets on Biomimetic Superhydrophobic Surfaces. <i>Langmuir</i> , 2009, 25, 9208-9218.	1.6	167
78	Biomimetic structures for fluid drag reduction in laminar and turbulent flows. <i>Journal of Physics Condensed Matter</i> , 2010, 22, 035104.	0.7	166
79	An Optical Profilometer for Surface Characterization of Magnetic Media. <i>ASLE Transactions</i> , 1984, 27, 101-113.	0.6	165
80	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
81	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
82	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
83	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
84	Biomimetics inspired surfaces for drag reduction and oleophobicity/phobicity. <i>Beilstein Journal of Nanotechnology</i> , 2011, 2, 66-84.	1.5	155
85	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
86	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
87	Friction model for the velocity dependence of nanoscale friction. <i>Nanotechnology</i> , 2005, 16, 2309-2324.	1.3	149
88	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
89	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
90	Effect of normal load on microscale friction measurements. <i>Thin Solid Films</i> , 1996, 278, 49-56.	0.8	147

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91	Roughness-induced superhydrophobicity: a way to design non-adhesive surfaces. <i>Journal of Physics Condensed Matter</i> , 2008, 20, 225009.	0.7	144
92	Tribological studies of silicon for magnetic recording applications (invited). <i>Journal of Applied Physics</i> , 1994, 75, 5741-5746.	1.1	143
93	Thin-film friction and adhesion studies using atomic force microscopy. <i>Journal of Applied Physics</i> , 2000, 87, 1201-1210.	1.1	141
94	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
95	Ultrathin Wear-Resistant Ionic Liquid Films for Novel MEMS/NEMS Applications. <i>Advanced Materials</i> , 2008, 20, 1194-1198.	11.1	137
96	Boundary slip and nanobubble study in micro/nanofluidics using atomic force microscopy. <i>Soft Matter</i> , 2010, 6, 29-66.	1.2	137
97	Nano- to microscale wear and mechanical characterization using scanning probe microscopy. <i>Wear</i> , 2001, 251, 1105-1123.	1.5	136
98	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
99	Towards optimization of patterned superhydrophobic surfaces. <i>Journal of the Royal Society Interface</i> , 2007, 4, 643-648.	1.5	132
100	Lotus-Like Biomimetic Hierarchical Structures Developed by the Self-Assembly of Tubular Plant Waxes. <i>Langmuir</i> , 2009, 25, 1659-1666.	1.6	132
101	Micro/nanomechanical characterization of ceramic films for microdevices. <i>Thin Solid Films</i> , 1999, 340, 210-217.	0.8	131
102	Nanostructures for superhydrophobicity and low adhesion. <i>Soft Matter</i> , 2008, 4, 1799.	1.2	131
103	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
104	Use of a nanoscale Kelvin probe for detecting wear precursors. <i>Review of Scientific Instruments</i> , 1998, 69, 3618-3624.	0.6	125
105	Frictional behavior of highly oriented pyrolytic graphite. <i>Journal of Applied Physics</i> , 1994, 76, 8117-8120.	1.1	124
106	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
107	Contact Mechanics of Rough Surfaces in Tribology: Single Asperity Contact. <i>Applied Mechanics Reviews</i> , 1996, 49, 275-298.	4.5	123
108	Micro/nanotribological studies of polysilicon and SiC films for MEMS applications. <i>Wear</i> , 1998, 217, 251-261.	1.5	121

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109	Micro/nanomechanical and tribological characterization of ultrathin amorphous carbon coatings. <i>Journal of Materials Research</i> , 1999, 14, 2328-2337.	1.2	121
110	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
111	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
112	Effect of scan size and surface roughness on microscale friction measurements. <i>Journal of Applied Physics</i> , 1997, 81, 2472-2479.	1.1	118
113	Blockchain based solutions to secure IoT: Background, integration trends and a way forward. <i>Journal of Network and Computer Applications</i> , 2021, 181, 103050.	5.8	118
114	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
115	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
116	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
117	Micromechanical properties of amorphous carbon coatings deposited by different deposition techniques. <i>Thin Solid Films</i> , 1995, 270, 391-398.	0.8	113
118	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
119	Nanomechanical characterization of human hair using nanoindentation and SEM. <i>Ultramicroscopy</i> , 2005, 105, 248-266.	0.8	112
120	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
121	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
122	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
123	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
124	Nanoscale tribophysics and tribomechanics. <i>Wear</i> , 1999, 225-229, 465-492.	1.5	111
125	Liver Regeneration after Acetaminophen Hepatotoxicity. <i>American Journal of Pathology</i> , 2019, 189, 719-729.	1.9	111
126	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

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127	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
128	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
129	Tribological studies of chromium oxide films for magnetic recording applications. <i>Thin Solid Films</i> , 1997, 311, 67-80.	0.8	107
130	Scale effects in friction using strain gradient plasticity and dislocation-assisted sliding (microslip). <i>Acta Materialia</i> , 2003, 51, 4331-4345.	3.8	107
131	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
132	Biomimetic hierarchical structure for self-cleaning. <i>Applied Physics Letters</i> , 2008, 93, .	1.5	104
133	Conceptualizing smart city applications: Requirements, architecture, security issues, and emerging trends. <i>Expert Systems</i> , 2022, 39, .	2.9	104
134	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
135	Nanoscale characterization of human hair and hair conditioners. <i>Progress in Materials Science</i> , 2008, 53, 585-710.	16.0	103
136	Material removal mechanisms of single-crystal silicon on nanoscale and at ultralow loads. <i>Wear</i> , 1998, 223, 66-78.	1.5	102
137	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
138	Biotransformation of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX) by a Rabbit Liver Cytochrome P450: Insight into the Mechanism of RDX Biodegradation by <i>Rhodococcus</i> sp. Strain DN22. <i>Applied and Environmental Microbiology</i> , 2003, 69, 1347-1351.	1.4	100
139	Structure and mechanical properties of beetle wings: a review. <i>RSC Advances</i> , 2012, 2, 12606.	1.7	100
140	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
141	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
142	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
143	Fullerene (C ₆₀) Films for Solid Lubrication. <i>Tribology Transactions</i> , 1993, 36, 573-580.	1.1	99
144	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

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145	Suppression of Nuclear Factor- κ B Activation and Inflammation in Microglia by Physically Modified Saline. <i>Journal of Biological Chemistry</i> , 2012, 287, 29529-29542.	1.6	99
146	Smart polymer brushes and their emerging applications. <i>RSC Advances</i> , 2012, 2, 8557.	1.7	99
147	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
148	Mechanical and tribological properties of hard carbon coatings for magnetic recording heads. <i>Wear</i> , 1995, 190, 110-122.	1.5	98
149	Chemotaxis-mediated biodegradation of cyclic nitramine explosives RDX, HMX, and CL-20 by <i>Clostridium</i> sp. EDB2. <i>Biochemical and Biophysical Research Communications</i> , 2004, 316, 816-821.	1.0	98
150	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
151	Friction and wear studies of human hair and skin. <i>Wear</i> , 2005, 259, 1012-1021.	1.5	97
152	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
153	Impact of albumin based approaches in nanomedicine: Imaging, targeting and drug delivery. <i>Advances in Colloid and Interface Science</i> , 2017, 246, 13-39.	7.0	97
154	Micro/nanotribology and its applications to magnetic storage devices and MEMS. <i>Tribology International</i> , 1995, 28, 85-96.	3.0	96
155	Localized surface elasticity measurements using an atomic force microscope. <i>Review of Scientific Instruments</i> , 1997, 68, 4498-4505.	0.6	96
156	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
157	Kinetics of Biodegradation of p-Nitrophenol by Different Bacteria. <i>Biochemical and Biophysical Research Communications</i> , 2000, 274, 626-630.	1.0	95
158	Mechanical property measurements of nanoscale structures using an atomic force microscope. <i>Ultramicroscopy</i> , 2002, 91, 111-118.	0.8	95
159	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
160	Nanotribological characterization of self-assembled monolayers deposited on silicon and aluminium substrates. <i>Nanotechnology</i> , 2005, 16, 1549-1558.	1.3	94
161	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
162	Tribological properties of polished diamond films. <i>Journal of Applied Physics</i> , 1993, 74, 4174-4180.	1.1	93

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