

# Bharat Bhushan

## List of Publications by Citations

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#	Paper	IF	Citations
1034	Natural and biomimetic artificial surfaces for superhydrophobicity, self-cleaning, low adhesion, and drag reduction. <i>Progress in Materials Science</i> , <b>2011</b> , 56, 1-108	42.2	1349
1033	Nanotribology: friction, wear and lubrication at the atomic scale. <i>Nature</i> , <b>1995</b> , 374, 607-616	50.4	1345
1032	A review of nanoindentation continuous stiffness measurement technique and its applications. <i>Materials Characterization</i> , <b>2002</b> , 48, 11-36	3.9	1054
1031	Biomimetics: lessons from nature--an overview. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 1445-86	3	811
1030	Multifunctional surface structures of plants: An inspiration for biomimetics. <i>Progress in Materials Science</i> , <b>2009</b> , 54, 137-178	42.2	614
1029	Bioinspired self-cleaning surfaces with superhydrophobicity, superoleophobicity, and superhydrophilicity. <i>RSC Advances</i> , <b>2013</b> , 3, 671-690	3.7	573
1028	Micro-, nano- and hierarchical structures for superhydrophobicity, self-cleaning and low adhesion. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2009</b> , 367, 1631-72	3	562
1027	Diversity of structure, morphology and wetting of plant surfaces. <i>Soft Matter</i> , <b>2008</b> , 4, 1943	3.6	523
1026	Fabrication of artificial Lotus leaves and significance of hierarchical structure for superhydrophobicity and low adhesion. <i>Soft Matter</i> , <b>2009</b> , 5, 1386	3.6	517
1025	Superhydrophobic surfaces and emerging applications: Non-adhesion, energy, green engineering. <i>Current Opinion in Colloid and Interface Science</i> , <b>2009</b> , 14, 270-280	7.6	471
1024	Shark-skin surfaces for fluid-drag reduction in turbulent flow: a review. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 4775-806	3	413
1023	Self-cleaning efficiency of artificial superhydrophobic surfaces. <i>Langmuir</i> , <b>2009</b> , 25, 3240-8	4	389
1022	Adhesion and stiction: Mechanisms, measurement techniques, and methods for reduction. <i>Journal of Vacuum Science &amp; Technology an Official Journal of the American Vacuum Society B, Microelectronics Processing and Phenomena</i> , <b>2003</b> , 21, 2262		376
1021	Fabrication of superhydrophobic surfaces with high and low adhesion inspired from rose petal. <i>Langmuir</i> , <b>2010</b> , 26, 8207-17	4	370
1020	Tribology and Mechanics of Magnetic Storage Devices <b>1996</b> ,		360
1019	Wetting behavior of water and oil droplets in three-phase interfaces for hydrophobicity/phillicity and oleophobicity/phillicity. <i>Langmuir</i> , <b>2009</b> , 25, 14165-73	4	353
1018	Contact angle, adhesion and friction properties of micro-and nanopatterned polymers for superhydrophobicity. <i>Nanotechnology</i> , <b>2006</b> , 17, 4970-4980	3.4	350

1017	The rose petal effect and the modes of superhydrophobicity. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 4713-28	3	344
1016	Hydrophobicity, adhesion, and friction properties of nanopatterned polymers and scale dependence for micro- and nanoelectromechanical systems. <i>Nano Letters</i> , <b>2005</b> , 5, 1607-13	11.5	337
1015	Atomic-Scale Friction Measurements Using Friction Force Microscopy: Part II General Principles and New Measurement Techniques. <i>Journal of Tribology</i> , <b>1994</b> , 116, 378-388	1.8	336
1014	A Review of Ionic Liquids for Green Molecular Lubrication in Nanotechnology. <i>Tribology Letters</i> , <b>2010</b> , 40, 247-268	2.8	335
1013	Nanomechanical characterisation of solid surfaces and thin films. <i>International Materials Reviews</i> , <b>2003</b> , 48, 125-164	16.1	329
1012	<b>2013</b> ,		329
1011	Comparison of surface roughness measurements by stylus profiler, AFM and non-contact optical profiler. <i>Wear</i> , <b>1995</b> , 190, 76-88	3.5	328
1010	Biofouling: lessons from nature. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2012</b> , 370, 2381-417	3	321
1009	Mechanically durable carbon nanotube-composite hierarchical structures with superhydrophobicity, self-cleaning, and low-drag. <i>ACS Nano</i> , <b>2009</b> , 3, 4155-63	16.7	318
1008	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> , <b>1999</b> , 8, 1985-2015	3.5	317
1007	Biomimetic superhydrophobic surfaces: multiscale approach. <i>Nano Letters</i> , <b>2007</b> , 7, 2633-7	11.5	307
1006	Hierarchical structure and mechanical properties of nacre: a review. <i>RSC Advances</i> , <b>2012</b> , 2, 7617	3.7	306
1005	Dynamic effects of bouncing water droplets on superhydrophobic surfaces. <i>Langmuir</i> , <b>2008</b> , 24, 6262-9	4	279
1004	Wetting study of patterned surfaces for superhydrophobicity. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 1033-41	3.1	273
1003	Nanotribology and nanomechanics of MEMS/NEMS and BioMEMS/BioNEMS materials and devices. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 387-412	2.5	269
1002	Micro- and nanoscale characterization of hydrophobic and hydrophilic leaf surfaces. <i>Nanotechnology</i> , <b>2006</b> , 17, 2758-2772	3.4	269
1001	Contact mechanics of rough surfaces in tribology: multiple asperity contact. <i>Tribology Letters</i> , <b>1998</b> , 4, 1-35	2.8	267
1000	Structural coloration in nature. <i>RSC Advances</i> , <b>2013</b> , 3, 14862	3.7	266

999	Bioinspired rice leaf and butterfly wing surface structures combining shark skin and lotus effects. <i>Soft Matter</i> , <b>2012</b> , 8, 11271	3.6	260
998	Mechanical characterization of micro/nanoscale structures for MEMS/NEMS applications using nanoindentation techniques. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 481-94	3.1	255
997	Roughness optimization for biomimetic superhydrophobic surfaces. <i>Microsystem Technologies</i> , <b>2005</b> , 11, 535-549	1.7	250
996	Nanotribological characterization of molecularly thick lubricant films for applications to MEMS/NEMS by AFM. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 321-40	3.1	239
995	Fracture mechanisms of thin amorphous carbon films in nanoindentation. <i>Acta Materialia</i> , <b>1997</b> , 45, 4453-4461	3.4	233
994	Wetting transition of water droplets on superhydrophobic patterned surfaces. <i>Scripta Materialia</i> , <b>2007</b> , 57, 1057-1060	5.6	227
993	Biologically Inspired Surfaces: Broadening the Scope of Roughness**. <i>Advanced Functional Materials</i> , <b>2008</b> , 18, 843-855	15.6	225
992	Hierarchical roughness makes superhydrophobic states stable. <i>Microelectronic Engineering</i> , <b>2007</b> , 84, 382-386	2.5	223
991	Nanoindentation hardness measurements using atomic force microscopy. <i>Applied Physics Letters</i> , <b>1994</b> , 64, 1653-1655	3.4	221
990	Transparent, superhydrophobic, and wear-resistant coatings on glass and polymer substrates using SiO <sub>2</sub> , ZnO, and ITO nanoparticles. <i>Langmuir</i> , <b>2012</b> , 28, 11391-9	4	220
989	Hierarchical roughness optimization for biomimetic superhydrophobic surfaces. <i>Ultramicroscopy</i> , <b>2007</b> , 107, 969-79	3.1	218
988	Modern Tribology Handbook, Two Volume Set		218
987	Micromechanical and tribological characterization of doped single-crystal silicon and polysilicon films for microelectromechanical systems devices. <i>Journal of Materials Research</i> , <b>1997</b> , 12, 54-63	2.5	216
986	Multiscale friction mechanisms and hierarchical surfaces in nano- and bio-tribology. <i>Materials Science and Engineering Reports</i> , <b>2007</b> , 58, 162-193	30.9	213
985	Tribology and Mechanics of Magnetic Storage Devices <b>1990</b> ,		213
984	Nanotribology and nanomechanics. <i>Wear</i> , <b>2005</b> , 259, 1507-1531	3.5	212
983	Plant Surfaces: Structures and Functions for Biomimetic Innovations. <i>Nano-Micro Letters</i> , <b>2017</b> , 9, 23	19.5	203
982	Theoretical investigation of the distance dependence of capillary and van der Waals forces in scanning force microscopy. <i>Physical Review B</i> , <b>2000</b> , 62, 13667-13673	3.3	203

981	Wetting, adhesion and friction of superhydrophobic and hydrophilic leaves and fabricated micro/nanopatterned surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 225010	1.8	202
980	Nanoindentation and picondentation measurements using a capacitive transducer system in atomic force microscopy. <i>Philosophical Magazine A: Physics of Condensed Matter, Structure, Defects and Mechanical Properties</i> , <b>1996</b> , 74, 1117-1128		201
979	Microtribological Characterization of Self-Assembled and Langmuir-Blodgett Monolayers by Atomic and Friction Force Microscopy. <i>Langmuir</i> , <b>1995</b> , 11, 3189-3198	4	189
978	Fluid Drag Reduction with Shark-Skin Riblet Inspired Microstructured Surfaces. <i>Advanced Functional Materials</i> , <b>2013</b> , 23, 4507-4528	15.6	183
977	Effects of particle size, polishing pad and contact pressure in free abrasive polishing. <i>Wear</i> , <b>1996</b> , 200, 281-295	3.5	181
976	Bioinspired structured surfaces. <i>Langmuir</i> , <b>2012</b> , 28, 1698-714	4	179
975	Fluid drag reduction and efficient self-cleaning with rice leaf and butterfly wing bioinspired surfaces. <i>Nanoscale</i> , <b>2013</b> , 5, 7685-710	7.7	176
974	Patterned nonadhesive surfaces: superhydrophobicity and wetting regime transitions. <i>Langmuir</i> , <b>2008</b> , 24, 1525-33	4	174
973	Surface characterization and adhesion and friction properties of hydrophobic leaf surfaces. <i>Ultramicroscopy</i> , <b>2006</b> , 106, 709-19	3.1	172
972	Nanotribological properties and mechanisms of alkylthiol and biphenyl thiol self-assembled monolayers studied by AFM. <i>Physical Review B</i> , <b>2001</b> , 63,	3.3	171
971	Multiscale Dissipative Mechanisms and Hierarchical Surfaces. <i>Nanoscience and Technology</i> , <b>2008</b> ,	0.6	168
970	Rice- and butterfly-wing effect inspired self-cleaning and low drag micro/nanopatterned surfaces in water, oil, and air flow. <i>Nanoscale</i> , <b>2014</b> , 6, 76-96	7.7	163
969	Generalized fractal analysis and its applications to engineering surfaces. <i>Wear</i> , <b>1995</b> , 180, 17-34	3.5	162
968	Measurement of surface topography of magnetic tapes by Mirau interferometry. <i>Applied Optics</i> , <b>1985</b> , 24, 1489	1.7	162
967	Scale dependence of micro/nano-friction and adhesion of MEMS/NEMS materials, coatings and lubricants. <i>Nanotechnology</i> , <b>2004</b> , 15, 1561-1570	3.4	161
966	Development of AFM-based techniques to measure mechanical properties of nanoscale structures. <i>Sensors and Actuators A: Physical</i> , <b>2002</b> , 101, 338-351	3.9	161
965	Measurement of fracture toughness of ultra-thin amorphous carbon films. <i>Thin Solid Films</i> , <b>1998</b> , 315, 214-221	2.2	158
964	Anti-fouling properties of microstructured surfaces bio-inspired by rice leaves and butterfly wings. <i>Journal of Colloid and Interface Science</i> , <b>2014</b> , 419, 114-33	9.3	156

963	Investigation of nanotribological properties of self-assembled monolayers with alkyl and biphenyl spacer chains (invited). <i>Ultramicroscopy</i> , <b>2002</b> , 91, 185-202	3.1	155
962	<b>2013</b> ,		151
961	Atomic-scale and microscale friction studies of graphite and diamond using friction force microscopy. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 5022-5035	2.5	148
960	A Numerical Three-Dimensional Model for the Contact of Rough Surfaces by Variational Principle. <i>Journal of Tribology</i> , <b>1996</b> , 118, 33-42	1.8	146
959	Dynamic effects induced transition of droplets on biomimetic superhydrophobic surfaces. <i>Langmuir</i> , <b>2009</b> , 25, 9208-18	4	145
958	An overview of additive manufacturing (3D printing) for microfabrication. <i>Microsystem Technologies</i> , <b>2017</b> , 23, 1117-1124	1.7	142
957	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> , <b>2000</b> , 27, 459-466 <sup>3.8</sup>		142
956	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> , <b>1996</b> , 14, 2378-2391 <sup>9</sup>		140
955	Mechanically durable, superoleophobic coatings prepared by layer-by-layer technique for anti-smudge and oil-water separation. <i>Scientific Reports</i> , <b>2015</b> , 5, 8701	4.9	137
954	Tribological studies of silicon for magnetic recording applications (invited). <i>Journal of Applied Physics</i> , <b>1994</b> , 75, 5741-5746	2.5	134
953	Thin-film friction and adhesion studies using atomic force microscopy. <i>Journal of Applied Physics</i> , <b>2000</b> , 87, 1201-1210	2.5	133
952	AFM study of perfluoroalkylsilane and alkylsilane self-assembled monolayers for anti-stiction in MEMS/NEMS. <i>Ultramicroscopy</i> , <b>2005</b> , 105, 176-188	3.1	131
951	Biomimetics inspired surfaces for drag reduction and oleophobicity/philicity. <i>Beilstein Journal of Nanotechnology</i> , <b>2011</b> , 2, 66-84	3	128
950	Durable Lotus-effect surfaces with hierarchical structure using micro- and nanosized hydrophobic silica particles. <i>Journal of Colloid and Interface Science</i> , <b>2012</b> , 368, 584-91	9.3	127
949	Transparent, wear-resistant, superhydrophobic and superoleophobic poly(dimethylsiloxane) (PDMS) surfaces. <i>Journal of Colloid and Interface Science</i> , <b>2017</b> , 488, 118-126	9.3	127
948	Biomimetic structures for fluid drag reduction in laminar and turbulent flows. <i>Journal of Physics Condensed Matter</i> , <b>2010</b> , 22, 035104	1.8	126
947	Roughness-induced superhydrophobicity: a way to design non-adhesive surfaces. <i>Journal of Physics Condensed Matter</i> , <b>2008</b> , 20, 225009	1.8	124
946	Use of phase imaging in atomic force microscopy for measurement of viscoelastic contrast in polymer nanocomposites and molecularly thick lubricant films. <i>Ultramicroscopy</i> , <b>2003</b> , 97, 151-69	3.1	124

945	Dual pH- and ammonia-vapor-responsive electrospun nanofibrous membranes for oil-water separations. <i>Journal of Membrane Science</i> , <b>2017</b> , 537, 128-139	9.6	123
944	Boundary slip and nanobubble study in micro/nanofluidics using atomic force microscopy. <i>Soft Matter</i> , <b>2010</b> , 6, 29-66	3.6	123
943	Towards optimization of patterned superhydrophobic surfaces. <i>Journal of the Royal Society Interface</i> , <b>2007</b> , 4, 643-8	4.1	123
942	Effect of normal load on microscale friction measurements. <i>Thin Solid Films</i> , <b>1996</b> , 278, 49-56	2.2	123
941	An Optical Profilometer for Surface Characterization of Magnetic Media. <i>ASLE Transactions</i> , <b>1984</b> , 27, 101-113		123
940	Friction model for the velocity dependence of nanoscale friction. <i>Nanotechnology</i> , <b>2005</b> , 16, 2309-24	3.4	122
939	Micro/nanomechanical characterization of ceramic films for microdevices. <i>Thin Solid Films</i> , <b>1999</b> , 340, 210-217	2.2	122
938	Ultrathin Wear-Resistant Ionic Liquid Films for Novel MEMS/NEMS Applications. <i>Advanced Materials</i> , <b>2008</b> , 20, 1194-1198	24	120
937	Nano- to microscale wear and mechanical characterization using scanning probe microscopy. <i>Wear</i> , <b>2001</b> , 251, 1105-1123	3.5	120
936	Nanostructures for superhydrophobicity and low adhesion. <i>Soft Matter</i> , <b>2008</b> , 4, 1799	3.6	119
935	Topography-induced contributions to friction forces measured using an atomic force/friction force microscope. <i>Journal of Applied Physics</i> , <b>2000</b> , 88, 4825	2.5	116
934	Lotus-like biomimetic hierarchical structures developed by the self-assembly of tubular plant waxes. <i>Langmuir</i> , <b>2009</b> , 25, 1659-66	4	113
933	Contact Mechanics of Rough Surfaces in Tribology: Single Asperity Contact. <i>Applied Mechanics Reviews</i> , <b>1996</b> , 49, 275-298	8.6	112
932	Effect of scan size and surface roughness on microscale friction measurements. <i>Journal of Applied Physics</i> , <b>1997</b> , 81, 2472-2479	2.5	112
931	Micro/nanotribological studies of polysilicon and SiC films for MEMS applications. <i>Wear</i> , <b>1998</b> , 217, 251-261	3.5	112
930	AFM-based nanotribological and electrical characterization of ultrathin wear-resistant ionic liquid films. <i>Journal of Colloid and Interface Science</i> , <b>2008</b> , 317, 275-87	9.3	112
929	Frictional behavior of highly oriented pyrolytic graphite. <i>Journal of Applied Physics</i> , <b>1994</b> , 76, 8117-8120	2.5	109
928	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> , <b>2001</b> , 36, 803-807	4.8	108

927	Use of a nanoscale Kelvin probe for detecting wear precursors. <i>Review of Scientific Instruments</i> , <b>1998</b> , 69, 3618-3624	1.7	108
926	The micro-meniscus effect of a thin liquid film on the static friction of rough surface contact. <i>Journal Physics D: Applied Physics</i> , <b>1996</b> , 29, 163-178	3	107
925	Micro/nanomechanical and tribological characterization of ultrathin amorphous carbon coatings. <i>Journal of Materials Research</i> , <b>1999</b> , 14, 2328-2337	2.5	106
924	Blockchain for smart cities: A review of architectures, integration trends and future research directions. <i>Sustainable Cities and Society</i> , <b>2020</b> , 61, 102360	10.1	105
923	Atomic Force Microscopy of Magnetic Rigid Disks and Sliders and Its Applications to Tribology. <i>Journal of Tribology</i> , <b>1991</b> , 113, 452-457	1.8	105
922	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> , <b>2000</b> , 157, 373-381	6.7	104
921	Micromechanical properties of amorphous carbon coatings deposited by different deposition techniques. <i>Thin Solid Films</i> , <b>1995</b> , 270, 391-398	2.2	104
920	Micro/nanotribology of ultra-thin hard amorphous carbon coatings using atomic force/friction force microscopy. <i>Wear</i> , <b>1999</b> , 225-229, 678-689	3.5	103
919	Atomic-Scale Friction Measurements Using Friction Force Microscopy: Part II Application to Magnetic Media. <i>Journal of Tribology</i> , <b>1994</b> , 116, 389-396	1.8	102
918	Self-cleaning, stain-resistant and anti-bacterial superhydrophobic cotton fabric prepared by simple immersion technique. <i>Journal of Colloid and Interface Science</i> , <b>2019</b> , 535, 66-74	9.3	102
917	Bioadhesion: a review of concepts and applications. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2012</b> , 370, 2321-47	3	101
916	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> , <b>2006</b> , 24, 1197-1202	2.9	101
915	Nanoscale tribophysics and tribomechanics. <i>Wear</i> , <b>1999</b> , 225-229, 465-492	3.5	101
914	Biomimetic hierarchical structure for self-cleaning. <i>Applied Physics Letters</i> , <b>2008</b> , 93, 093101	3.4	98
913	Adhesion of multi-level hierarchical attachment systems in gecko feet. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 1213-1258	2	98
912	Scale effects in friction using strain gradient plasticity and dislocation-assisted sliding (microslip). <i>Acta Materialia</i> , <b>2003</b> , 51, 4331-4345	8.4	96
911	Recent Advances in Attacks, Technical Challenges, Vulnerabilities and Their Countermeasures in Wireless Sensor Networks. <i>Wireless Personal Communications</i> , <b>2018</b> , 98, 2037-2077	1.9	95
910	Bioinspired, roughness-induced, water and oil super-philic and super-phobic coatings prepared by adaptable layer-by-layer technique. <i>Scientific Reports</i> , <b>2015</b> , 5, 14030	4.9	95



909	Tribological studies of chromium oxide films for magnetic recording applications. <i>Thin Solid Films</i> , <b>1997</b> , 311, 67-80	2.2	95
908	Adhesion analysis of multi-level hierarchical attachment system contacting with a rough surface. <i>Journal of Adhesion Science and Technology</i> , <b>2007</b> , 21, 1-20	2	95
907	Nanomechanical characterization of human hair using nanoindentation and SEM. <i>Ultramicroscopy</i> , <b>2005</b> , 105, 248-66	3.1	95
906	Adhesion and Friction Studies of Silicon and Hydrophobic and Low Friction Films and Investigation of Scale Effects. <i>Journal of Tribology</i> , <b>2004</b> , 126, 583-590	1.8	93
905	Adhesion analysis of two-level hierarchical morphology in natural attachment systems for 'smart adhesion'. <i>Journal of Adhesion Science and Technology</i> , <b>2006</b> , 20, 1475-1491	2	92
904	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> , <b>2003</b> , 69, 1347-51	4.8	91
903	Mechanical and tribological properties of hard carbon coatings for magnetic recording heads. <i>Wear</i> , <b>1995</b> , 190, 110-122	3.5	91
902	Micro/nanotribology and its applications to magnetic storage devices and MEMS. <i>Tribology International</i> , <b>1995</b> , 28, 85-96	4.9	90
901	Suppression of nuclear factor- $\kappa$ B activation and inflammation in microglia by physically modified saline. <i>Journal of Biological Chemistry</i> , <b>2012</b> , 287, 29529-42	5.4	89
900	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> , <b>2004</b> , 316, 816-21	3.4	89
899	Chemotaxis of a <i>Ralstonia</i> sp. SJ98 toward different nitroaromatic compounds and their degradation. <i>Biochemical and Biophysical Research Communications</i> , <b>2000</b> , 269, 117-23	3.4	89
898	Tribological properties of polished diamond films. <i>Journal of Applied Physics</i> , <b>1993</b> , 74, 4174-4180	2.5	89
897	Material removal mechanisms of single-crystal silicon on nanoscale and at ultralow loads. <i>Wear</i> , <b>1998</b> , 223, 66-78	3.5	88
896	Nanotribological characterization of self-assembled monolayers deposited on silicon and aluminium substrates. <i>Nanotechnology</i> , <b>2005</b> , 16, 1549-1558	3.4	88
895	Friction and wear studies of human hair and skin. <i>Wear</i> , <b>2005</b> , 259, 1012-1021	3.5	88
894	Fullerene (C60) Films for Solid Lubrication. <i>Tribology Transactions</i> , <b>1993</b> , 36, 573-580	1.8	88
893	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> , <b>2012</b> , 384, 182-83	2.3	87
892	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> , <b>2003</b> , 21, 1528-1538	2.9	87

891	Contact Analysis of Non-Gaussian Surfaces for Minimum Static and Kinetic Friction and Wear. <i>Tribology Transactions</i> , <b>1996</b> , 39, 890-898	1.8	87
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247	History of Tribology and Micro/Nanotribology <b>1997</b> , 1-16		2
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233	Modeling of Contact Angle for a Liquid in Contact with a Rough Surface for Various Wetting Regimes <b>2016</b> , 35-62		1
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