

Min Zou

List of Publications by Year in descending order

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90
papers

1,776
citations

257101

24
h-index

301761

39
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90
all docs

90
docs citations

90
times ranked

1807
citing authors

#	ARTICLE	IF	CITATIONS
1	Anisotropic mechanical properties of graphene sheets from molecular dynamics. <i>Physica B: Condensed Matter</i> , 2010, 405, 1301-1306.	1.3	248
2	Atomistic simulations of mechanical properties of graphene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2009, 373, 3359-3362.	0.9	144
3	Adhesion and friction properties of micro/nano-engineered superhydrophobic/hydrophobic surfaces. <i>Thin Solid Films</i> , 2010, 518, 3801-3807.	0.8	84
4	Wear resistant PTFE thin film enabled by a polydopamine adhesive layer. <i>Applied Surface Science</i> , 2014, 292, 350-356.	3.1	66
5	Superhydrophobic surfaces produced by applying a self-assembled monolayer to silicon micro/nano-textured surfaces. <i>Nano Research</i> , 2009, 2, 143-150.	5.8	64
6	3D printed PCU/UHMWPE polymeric blend for artificial knee meniscus. <i>Tribology International</i> , 2018, 122, 1-7.	3.0	56
7	The effects of polydopamine coated Cu nanoparticles on the tribological properties of polydopamine/PTFE coatings. <i>Tribology International</i> , 2016, 103, 87-94.	3.0	44
8	Adhesion and Friction Studies of a Selectively Micro/Nano-textured Surface Produced by UV Assisted Crystallization of Amorphous Silicon. <i>Tribology Letters</i> , 2005, 20, 43-52.	1.2	43
9	Rapid Deposition of Uniform Polydopamine Coatings on Nanoparticle Surfaces with Controllable Thickness. <i>Langmuir</i> , 2017, 33, 6046-6053.	1.6	43
10	Surface-nano-texturing by aluminum-induced crystallization of amorphous silicon. <i>Surface and Coatings Technology</i> , 2008, 203, 675-679.	2.2	40
11	A revisit to atomic layer deposition of zinc oxide using diethylzinc and water as precursors. <i>Journal of Materials Science</i> , 2019, 54, 5236-5248.	1.7	40
12	Nanoindentation of silica nanoparticles attached to a silicon substrate. <i>Tribology Letters</i> , 2006, 22, 189-196.	1.2	39
13	Diamond-like carbon coatings with zirconium-containing interlayers for orthopedic implants. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017, 68, 51-61.	1.5	39
14	Silica nanoparticle-based films on titanium substrates with long-term superhydrophilic and superhydrophobic stability. <i>Applied Surface Science</i> , 2013, 280, 820-827.	3.1	35
15	The Influence of Cu Nanoparticles on the Tribological Properties of Polydopamine/PTFE+Cu Films. <i>Tribology Letters</i> , 2015, 59, 1.	1.2	35
16	Enhanced lubricant film formation through micro-dimpled hard-on-hard artificial hip joint: An in-situ observation of dimple shape effects. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018, 81, 120-129.	1.5	35
17	The Effects of Graphite Filler on the Tribological Properties of Polydopamine/PTFE Coatings. <i>Tribology Letters</i> , 2016, 64, 1.	1.2	34
18	Friction Study of a Ni Nanodot-patterned Surface. <i>Tribology Letters</i> , 2007, 28, 183-189.	1.2	31

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19	Use of Au-Nanoparticle-Filled PTFE Films to Produce Low-Friction and Low-Wear Surface Coatings. Tribology Letters, 2014, 56, 223-230.	1.2	30
20	Ni nanodot-patterned surfaces for adhesion and friction reduction. Tribology Letters, 2006, 24, 137-142.	1.2	29
21	Micro/nano engineering on stainless steel substrates to produce superhydrophobic surfaces. Thin Solid Films, 2011, 520, 1520-1524.	0.8	28
22	Nanoscale Surface Engineering with Deformation-Resistant Core-Shell Nanostructures. Tribology Letters, 2011, 42, 51-58.	1.2	28
23	Molecular Layer Deposition of Crosslinked Polymeric Lithicone for Superior Lithium Metal Anodes. Energy Material Advances, 2021, 2021, .	4.7	27
24	The effects of annealing conditions on the wear of PDA/PTFE coatings. Applied Surface Science, 2019, 481, 723-735.	3.1	26
25	Mechanical wear and oxidative degradation analysis of retrieved ultra high molecular weight polyethylene acetabular cups. Journal of the Mechanical Behavior of Biomedical Materials, 2018, 79, 314-323.	1.5	24
26	Tribological performance of polydopamine + Ag nanoparticles/PTFE thin films. Tribology International, 2020, 144, 106097.	3.0	23
27	The Effects of Surface Roughness on the Durability of Polydopamine/PTFE Solid Lubricant Coatings on NiTiNOL 60. Tribology Transactions, 2019, 62, 919-929.	1.1	21
28	Large Grain Polycrystalline Silicon Film Produced by Nano-Aluminum-Enhanced Crystallization of Amorphous Silicon. Electrochemical and Solid-State Letters, 2005, 8, G179.	2.2	19
29	Atomic layer deposition of zirconium oxide thin films. Journal of Materials Research, 2020, 35, 804-812.	1.2	19
30	Nano-aluminum-induced crystallization of amorphous silicon. Materials Letters, 2006, 60, 1379-1382.	1.3	17
31	Fabrication of durable hydrophobic surfaces through surface texturing. Applied Surface Science, 2011, 257, 5688-5693.	3.1	17
32	The effects of confined core volume on the mechanical behavior of Al/a-Si core-shell nanostructures. Acta Materialia, 2017, 128, 149-159.	3.8	16
33	The Effects of PTFE Thickness on the Tribological Behavior of Thick PDA/PTFE Coatings. Tribology Transactions, 2020, 63, 575-584.	1.1	16
34	Superhydrophilic textured-surfaces on stainless steel substrates. Thin Solid Films, 2009, 518, 1571-1574.	0.8	15
35	Nanoindentation study of deformation-resistant Al/a-Si core-shell nanostructures. Acta Materialia, 2011, 59, 6110-6116.	3.8	15
36	Frictional anisotropy of tilted molybdenum nanorods fabricated by glancing angle deposition. Tribology International, 2014, 80, 216-221.	3.0	15

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37	Fabrication and tribological characterization of deformation-resistant nano-textured surfaces produced by two-photon lithography and atomic layer deposition. <i>Tribology International</i> , 2019, 132, 75-84.	3.0	15
38	Snakeskin-Inspired Elastomers with Extremely Low Coefficient of Friction under Dry Conditions. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 57450-57460.	4.0	14
39	Digitization, replication, and modification of physical surfaces using two-photon lithography. <i>Journal of Manufacturing Processes</i> , 2020, 54, 180-189.	2.8	13
40	Deformation and fatigue resistance of Al/a-Si core-shell nanostructures subjected to cyclic nanoindentation. <i>Applied Surface Science</i> , 2018, 433, 617-626.	3.1	12
41	Atomic layer deposition of lithium zirconium oxides for the improved performance of lithium-ion batteries. <i>Dalton Transactions</i> , 2022, 51, 2737-2749.	1.6	12
42	Production of a superhydrophilic surface by aluminum-induced crystallization of amorphous silicon. <i>Nanotechnology</i> , 2008, 19, 465304.	1.3	11
43	Tribological performance of PDA/PTFE+Graphite particle coatings on 60NiTi. <i>Applied Surface Science</i> , 2020, 527, 146731.	3.1	11
44	Nanomechanical properties of hardened 60NiTi. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2021, 800, 140284.	2.6	11
45	Material dimensionality effects on the nanoindentation behavior of Al/a-Si core-shell nanostructures. <i>Applied Surface Science</i> , 2017, 412, 96-104.	3.1	10
46	Nanostructure-Textured Surfaces with Low Friction and High Deformation Resistance. <i>Tribology Transactions</i> , 2018, 61, 80-87.	1.1	10
47	The effect of coating thickness on the tribological properties of polydopamine/PTFE + graphite particle coatings on 60NiTi. <i>Surface and Coatings Technology</i> , 2021, 420, 127320.	2.2	10
48	Tribological behavior of the PDA/PTFE + Cu-SiO ₂ nanoparticle thin coatings. <i>Surface and Coatings Technology</i> , 2021, 409, 126852.	2.2	9
49	Experimental investigation of the wear mechanisms of thin PDA/PTFE coatings. <i>Progress in Organic Coatings</i> , 2019, 137, 105341.	1.9	8
50	Tribological properties of PDA+PTFE coating in oil-lubricated condition. <i>Applied Surface Science</i> , 2020, 534, 147627.	3.1	8
51	Fabrication and Testing of Bioinspired Surface Designs for Friction Reduction at the Piston Ring and Liner Interface. <i>Journal of Tribology</i> , 2021, 143, .	1.0	8
52	Effect of Cu nanoparticles on the tribological performance of polydopamine+polytetrafluoroethylene coatings in oil-lubricated condition. <i>Applied Surface Science</i> , 2021, 565, 150525.	3.1	8
53	Nanotribology of a Silica Nanoparticle-Textured Surface. <i>Tribology Transactions</i> , 2006, 49, 66-71.	1.1	7
54	Fabrication of stable superhydrophilic surfaces on titanium substrates. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 823-832.	1.4	7

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55	Improved Tribological Performance of Polydopamine/Polytetrafluoroethylene Thin Coatings With Silica Nanoparticles Incorporated into the Polydopamine Underlayer. <i>Journal of Tribology</i> , 2021, 143, .	1.0	7
56	Polydopamine + SiO ₂ nanoparticle underlayer for improving DLC coating adhesion and durability. <i>Surface and Coatings Technology</i> , 2022, 429, 127964.	2.2	7
57	Self-Assembly of Aluminum-Induced Silicon Nanowires. <i>Electrochemical and Solid-State Letters</i> , 2006, 9, G133.	2.2	6
58	Study of the anisotropic frictional and deformation behavior of surfaces textured with silver nanorods. <i>Tribology International</i> , 2015, 92, 439-445.	3.0	6
59	Multi-Scale In Situ Tribological Studies of Surfaces with 3D Textures Fabricated via Two-Photon Lithography and Replica Molding. <i>Advanced Materials Interfaces</i> , 2020, 7, 2000299.	1.9	6
60	Understanding the Effects of Stress on the Crystallization of Amorphous Silicon. <i>Journal of Electronic Materials</i> , 2007, 36, 191-196.	1.0	5
61	Superhydrophilic surface on Cu substrate to enhance lubricant retention. <i>Journal of Adhesion Science and Technology</i> , 2014, 28, 833-842.	1.4	5
62	Loss of Function of Fatty Acid Desaturase 7 in Tomato Enhances Photosynthetic Carbon Fixation Efficiency. <i>Frontiers in Plant Science</i> , 2020, 11, 932.	1.7	5
63	Comparison of Tribological Performances of Nano- and Micro-Textured Surfaces. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2005, 219, 103-110.	0.1	4
64	Adhesion Study of Escherichia coli Cells on Nano-/Microtextured Surfaces in a Microfluidic System. <i>IEEE Nanotechnology Magazine</i> , 2008, 7, 573-579.	1.1	4
65	Microscale friction and deformation behavior of polydopamine/polytetrafluoroethylene-coated 60NiTi from nanoscratch tests. <i>Thin Solid Films</i> , 2022, 743, 139079.	0.8	4
66	Self-Assembly of Si Nanoparticles Produced by Aluminum-Induced Crystallization of Amorphous Silicon Film. <i>Electrochemical and Solid-State Letters</i> , 2007, 10, K7.	2.2	3
67	Designing a Bioinspired Surface for Improved Wear Resistance and Friction Reduction. <i>Journal of Tribology</i> , 2021, 143, .	1.0	3
68	Understanding the friction and deformation behavior of micro/nano-hierarchical textures through in-situ SEM observation and mechanics modeling. <i>Tribology International</i> , 2022, 165, 107271.	3.0	3
69	Interactions of E. coli with cylindrical micro-pillars of different geometric modifications. <i>Colloids and Surfaces B: Biointerfaces</i> , 2021, 209, 112190.	2.5	3
70	Superhydrophobic surfaces by dynamic nanomasking and deep reactive ion etching. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2007, 221, 41-48.	0.1	2
71	Silica nanoparticle antireflective coating with PVP adhesion layer. , 2013, , .		2
72	Polyvinylpyrrolidone adhesion layer for increased uniformity and optical transmittance of silica nanoparticle antireflective coatings. <i>Journal of Adhesion Science and Technology</i> , 2015, 29, 943-953.	1.4	2

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73	The effect of dimensional parameters of multi-asperity surfaces on friction at the nanoscale. Computational Materials Science, 2021, 191, 110276.	1.4	2
74	Fabrication and friction characteristics of arbitrary biosurfaces. Biointerphases, 2020, 15, 061016.	0.6	2
75	Amorphous Silicon Thickness Effect on Formation of Silicon Nanostructures by Aluminum-Induced Crystallization of Amorphous Silicon. Electrochemical and Solid-State Letters, 2007, 10, H224.	2.2	1
76	Tribological Study of PTFE/Au Nanoparticle Composite Thin Films. , 2011, , .		1
77	Nanostructured PVP/SiO ₂ ; antireflective coating for solar panel applications. , 2013, , .		1
78	Improving the Tribological Performances of PDA+PTFE Nanocomposite Coatings by Hot Compaction. Tribology Transactions, 2021, 64, 841-850.	1.1	1
79	Test parameter and material dependence of the frictional properties of core-shell nanostructure textured surfaces. Tribology International, 2022, 171, 107567.	3.0	1
80	Effects of Test Parameters on the Frictional Properties of Al/Diamond-Like Carbon Core-Shell Nanostructure-Textured Surfaces. Tribology Transactions, 2022, 65, 633-642.	1.1	1
81	PFPE Modified Silicon Nano-Textured Surfaces for Adhesion and Friction Reduction. , 2008, , .		0
82	The Effect of Surface Nano/Micro-Texturing on Escherichia Coli Cell Adhesion. , 2008, , .		0
83	Nanoindentation on a Ni Nanodot-Patterned Surface. , 2008, , .		0
84	Fabrication of Superhydrophilic Surfaces by Aluminum-Induced Crystallization of Amorphous Silicon. , 2008, , .		0
85	Nanoindentation of a Deformable Substrate Covered by Patterned Nanodot Asperities. , 2009, , .		0
86	Investigation of moth-eye antireflection coatings for photovoltaic cover glass using ftd modeling method. , 2014, , .		0
87	Micromechanical Tension Testing of Additively Manufactured 17-4 PH Stainless Steel Specimens. Journal of Visualized Experiments, 2021, , .	0.2	0
88	Closure to Discussion -Fabrication and Testing of Bioinspired Surface Designs for Friction Reduction at the Piston Ring and Liner Interface- [DOI: 10.1115/1.4050795] (2021, ASME J. Tribol., 143(5): 051109). Journal of Tribology, 0, , 1-3.	1.0	0
89	Hydrophobic Surfaces Prepared by Aluminum-Induced Crystallization of Amorphous Silicon. , 2007, , .		0
90	Mechanical Properties and Deformation Behavior of Ni Nanodot-Patterned Surfaces. , 2013, , 111-145.		0