Noshir Pesika

List of Publications by Year
in descending order

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59 papers	2,907 citations	304368 22 h-index	161609 54 g-index
60 all docs	60 docs citations	60 times ranked	3257 citing authors

#	Article	IF	Citations
1	Adhesion and friction in gecko toe attachment and detachment. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 19320-19325.	3.3	546
2	Quenching of Growth of ZnO Nanoparticles by Adsorption of Octanethiol. Journal of Physical Chemistry B, 2002, 106, 6985-6990.	1.2	213
3	Relationship between Absorbance Spectra and Particle Size Distributions for Quantum-Sized Nanocrystals. Journal of Physical Chemistry B, 2003, 107, 10412-10415.	1.2	212
4	Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System. Journal of Adhesion, 2007, 83, 383-401.	1.8	159
5	Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. Friction, 2013, 1, 114-129.	3.4	137
6	The Influence of Anion on the Coarsening Kinetics of ZnO Nanoparticles. Journal of Physical Chemistry B, 2003, 107, 3124-3130.	1.2	135
7	Geckoâ€Inspired Dry Adhesive for Robotic Applications. Advanced Functional Materials, 2011, 21, 3010-3018.	7.8	127
8	Adhesion and Friction Force Coupling of Gecko Setal Arrays:â€‰ Implications for Structured Adhesive Surfaces. Langmuir, 2008, 24, 1517-1524.	1.6	106
9	Controllable Anisotropic Dry Adhesion in Vacuum: Gecko Inspired Wedged Surface Fabricated with Ultraprecision Diamond Cutting. Advanced Functional Materials, 2017, 27, 1606576.	7.8	95
10	Design and Fabrication of Gecko-Inspired Adhesives. Langmuir, 2012, 28, 5737-5742.	1.6	90
11	Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko. Advanced Functional Materials, 2014, 24, 574-579.	7.8	86
12	Marine Oil Fate: Knowledge Gaps, Basic Research, and Development Needs; A Perspective Based on the Deepwater Horizon Spill. Environmental Engineering Science, 2011, 28, 87-93.	0.8	80
13	Frictional Adhesion of Patterned Surfaces and Implications for Gecko and Biomimetic Systems. Langmuir, 2009, 25, 7486-7495.	1.6	75
14	Gecko adhesion pad: a smart surface?. Journal of Physics Condensed Matter, 2009, 21, 464132.	0.7	72
15	Role of Tilted Adhesion Fibrils (Setae) in the Adhesion and Locomotion of Gecko-like Systems. Journal of Physical Chemistry B, 2009, 113, 3615-3621.	1.2	70
16	Origin of the Contact Angle Hysteresis of Water on Chemisorbed and Physisorbed Self-Assembled Monolayers. Langmuir, 2012, 28, 14609-14617.	1.6	68
17	Carbon Microspheres as Ball Bearings in Aqueous-Based Lubrication. ACS Applied Materials & Interfaces, 2011, 3, 2215-2218.	4.0	51
18	Fabrication of Complex Architectures Using Electrodeposition into Patterned Self-Assembled Monolayers. Nano Letters, 2006, 6, 1023-1026.	4.5	40

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19	Kinetics of Desorption of Alkanethiolates on Gold. Langmuir, 2006, 22, 3474-3476.	1.6	38
20	Site-Selective Patterning Using Surfactant-Based Resists. Journal of the American Chemical Society, 2005, 127, 11960-11962.	6.6	36
21	Additive-Mediated Electrochemical Synthesis of Platelike Copper Crystals for Methanol Electrooxidation. Langmuir, 2013, 29, 13135-13139.	1.6	31
22	Design of gecko-inspired fibrillar surfaces with strong attachment and easy-removal properties: a numerical analysis of peel-zone. Journal of the Royal Society Interface, 2012, 9, 2424-2436.	1.5	26
23	Determination of the Sliding Angle of Water Drops on Surfaces from Friction Force Measurements. Langmuir, 2022, 38, 2132-2136.	1.6	24
24	Hydrothermal Synthesis of Monodisperse Hard Carbon Spheres and Their Water-Based Lubrication. Tribology Letters, 2017, 65, 1.	1.2	23
25	The Extended Peel Zone Model: Effect of Peeling Velocity. Journal of Adhesion, 2011, 87, 1045-1058.	1.8	22
26	Anomalous Potential-Dependent Friction on Au(111) Measured by AFM. Langmuir, 2018, 34, 801-806.	1.6	22
27	Triboelectricity Generation from Vertically Aligned Carbon Nanotube Arrays. ACS Applied Materials & Interfaces, 2016, 8, 27454-27457.	4.0	21
28	Studies of Bilayers and Vesicle Adsorption to Solid Substrates: Development of a Miniature Streaming Potential Apparatus (SPA). Langmuir, 2010, 26, 8684-8689.	1.6	20
29	The Crowding Model as a Tool to Understand and Fabricate Gecko-Inspired Dry Adhesives. Journal of Adhesion, 2009, 85, 512-525.	1.8	18
30	Use of Electrochemical Deposition to Create Randomly Rough Surfaces and Roughness Gradients. Langmuir, 2011, 27, 3261-3265.	1.6	18
31	Adhesion and friction of an isolated gecko setal array: The effects of substrates and relative humidity. Biosurface and Biotribology, 2015, 1, 42-49.	0.6	18
32	Enhanced Adhesion of Mosquitoes to Rough Surfaces. ACS Applied Materials & Interfaces, 2017, 9, 24373-24380.	4.0	17
33	Carbon microspheres as network nodes in a novel biocompatible gel. Soft Matter, 2011, 7, 4170.	1.2	16
34	Interfaces of propylene carbonate. Journal of Chemical Physics, 2013, 138, 114708.	1.2	15
35	Hydrogel Inverse Replicas of Breath Figures Exhibit Superoleophobicity Due to Patterned Surface Roughness. Langmuir, 2016, 32, 1009-1017.	1.6	15
36	Clumping Criteria of Vertical Nanofibers on Surfaces. Advanced Materials Interfaces, 2015, 2, 1400466.	1.9	14

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37	Load-Induced Hydrodynamic Lubrication of Porous Films. ACS Applied Materials & Interfaces, 2015, 7, 17587-17591.	4.0	13
38	Vertically-Aligned Carbon Nanotube Arrays as Binder-Free Supports for Nickel Cobaltite based Faradaic Supercapacitor Electrodes. Electrochimica Acta, 2017, 236, 408-416.	2.6	13
39	Propulsion Principles of Water Striders in Sculling Forward through Shadow Method. Journal of Bionic Engineering, 2018, 15, 516-525.	2.7	13
40	Interaction of Oil Drops with Surfaces of Different Interfacial Energy and Topography. Langmuir, 2015, 31, 3385-3390.	1.6	12
41	Tuning Carbon Content and Morphology of FeCo/Graphitic Carbon Coreâ€“Shell Nanoparticles using a Saltâ€Matrixâ€Assisted CVD Process. Particle and Particle Systems Characterization, 2014, 31, 474-480.	1.2	11
42	Flexible Control and Coupling of Adhesion and Friction of Gecko Setal Array During Sliding. Tribology Online, 2015, 10, 106-114.	0.2	9
43	Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. Tribology Letters, 2015, 60, 1.	1.2	9
44	Water-Based Lubrication of Hard Carbon Microspheres as Lubricating Additives. Tribology Letters, 2018, 66, 1.	1.2	9
45	Synthesis of Hard Carbon/Iron Microspheres and Their Aqueous-Based Tribological Performance Under Magnetic Field. Tribology Letters, 2016, 64, 1.	1.2	8
46	Tunable Friction Through Stimuli Responsive Hybrid Carbon Microspheres. Langmuir, 2019, 35, 15849-15854.	1.6	8
47	Facile oneâ€pot method of initiator fixation for surfaceâ€initiated atom transfer radical polymerization on carbon hard spheres. Journal of Polymer Science Part A, 2013, 51, 3314-3322.	2.5	7
48	Lubrication Properties of Phospholipid Liposome Coated Silk Microspheres. Particle and Particle Systems Characterization, 2013, 30, 133-137.	1.2	7
49	Adhesives: Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko (Adv. Funct. Mater.) Tj ETQq1 1 0.784314 rgBT /Overlock	7.8	7
50	Quantification/mechanism of interfacial interaction modulated by electric potential in aqueous salt solution. Friction, 2021, 9, 513-523.	3.4	6
51	Role of Interfacial Water and Applied Potential on Friction at Au(111) Surfaces. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	5
52	Polymer grafted hard carbon microspheres at an oil/water interface. Journal of Colloid and Interface Science, 2016, 470, 31-38.	5.0	4
53	Tuning the Crystal Structure and Magnetic Properties of CoNiFeB Thin Films. Chemistry of Materials, 2013, 25, 2510-2514.	3.2	3
54	Hierarchical patterning of hydrogels by replica molding of impregnated breath figures leads to superoleophobicity. Nanoscale, 2016, 8, 18446-18453.	2.8	3

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55	Role of structural stiffness on the loading capacity of fibrillar adhesive composite. Extreme Mechanics Letters, 2020, 41, 101001.	2.0	2
56	Nanofibers: Clumping Criteria of Vertical Nanofibers on Surfaces (Adv. Mater. Interfaces 5/2015). Advanced Materials Interfaces, 2015, 2, .	1.9	1
57	Preface to the Early Career Authors in Fundamental Colloid and Interface Science Special Issue. Langmuir, 2018, 34, 727-728.	1.6	0
58	Size controllable synthesis of hard carbon spheres from aqueous D-glucose. International Journal of Materials and Structural Integrity, 2017, 11, 213.	0.1	0
59	Shapes of Nonsymmetric Capillary Bridges. Journal of Physical Chemistry B, 2021, 125, 12378-12383.	1.2	0