

# Noshir Pesika

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58  
papers

2,462  
citations

21  
h-index

49  
g-index

60  
ext. papers

2,701  
ext. citations

5.5  
avg, IF

4.57  
L-index

#	Paper	IF	Citations
58	Determination of the Sliding Angle of Water Drops on Surfaces from Friction Force Measurements.. <i>Langmuir</i> , <b>2022</b> ,	4	3
57	Shapes of Nonsymmetric Capillary Bridges. <i>Journal of Physical Chemistry B</i> , <b>2021</b> , 125, 12378-12383	3.4	
56	Quantification/mechanism of interfacial interaction modulated by electric potential in aqueous salt solution. <i>Friction</i> , <b>2021</b> , 9, 513-523	5.6	3
55	Role of structural stiffness on the loading capacity of fibrillar adhesive composite. <i>Extreme Mechanics Letters</i> , <b>2020</b> , 41, 101001	3.9	1
54	Role of Interfacial Water and Applied Potential on Friction at Au(111) Surfaces. <i>Frontiers in Mechanical Engineering</i> , <b>2019</b> , 5,	2.6	3
53	Tunable Friction Through Stimuli Responsive Hybrid Carbon Microspheres. <i>Langmuir</i> , <b>2019</b> , 35, 15849-15854	4.54	3
52	Preface to the Early Career Authors in Fundamental Colloid and Interface Science Special Issue. <i>Langmuir</i> , <b>2018</b> , 34, 727-728	4	
51	Anomalous Potential-Dependent Friction on Au(111) Measured by AFM. <i>Langmuir</i> , <b>2018</b> , 34, 801-806	4	17
50	Water-Based Lubrication of Hard Carbon Microspheres as Lubricating Additives. <i>Tribology Letters</i> , <b>2018</b> , 66, 1	2.8	4
49	Propulsion Principles of Water Striders in Sculling Forward through Shadow Method. <i>Journal of Bionic Engineering</i> , <b>2018</b> , 15, 516-525	2.7	5
48	Vertically-Aligned Carbon Nanotube Arrays as Binder-Free Supports for Nickel Cobaltite based Faradaic Supercapacitor Electrodes. <i>Electrochimica Acta</i> , <b>2017</b> , 236, 408-416	6.7	10
47	Controllable Anisotropic Dry Adhesion in Vacuum: Gecko Inspired Wedged Surface Fabricated with Ultraprecision Diamond Cutting. <i>Advanced Functional Materials</i> , <b>2017</b> , 27, 1606576	15.6	61
46	Hydrothermal Synthesis of Monodisperse Hard Carbon Spheres and Their Water-Based Lubrication. <i>Tribology Letters</i> , <b>2017</b> , 65, 1	2.8	21
45	Enhanced Adhesion of Mosquitoes to Rough Surfaces. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2017</b> , 9, 24373-24380	9.5	12
44	Synthesis of Hard Carbon/Iron Microspheres and Their Aqueous-Based Tribological Performance Under Magnetic Field. <i>Tribology Letters</i> , <b>2016</b> , 64, 1	2.8	7
43	Hierarchical patterning of hydrogels by replica molding of impregnated breath figures leads to superoleophobicity. <i>Nanoscale</i> , <b>2016</b> , 8, 18446-18453	7.7	2
42	Hydrogel Inverse Replicas of Breath Figures Exhibit Superoleophobicity Due to Patterned Surface Roughness. <i>Langmuir</i> , <b>2016</b> , 32, 1009-17	4	14

41	Polymer grafted hard carbon microspheres at an oil/water interface. <i>Journal of Colloid and Interface Science</i> , <b>2016</b> , 470, 31-38	9.3	3
40	Triboelectricity Generation from Vertically Aligned Carbon Nanotube Arrays. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 27454-27457	9.5	18
39	Nanofibers: Clumping Criteria of Vertical Nanofibers on Surfaces (Adv. Mater. Interfaces 5/2015). <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2,	4.6	1
38	Interaction of oil drops with surfaces of different interfacial energy and topography. <i>Langmuir</i> , <b>2015</b> , 31, 3385-90	4	12
37	Clumping Criteria of Vertical Nanofibers on Surfaces. <i>Advanced Materials Interfaces</i> , <b>2015</b> , 2, 1400466	4.6	9
36	Load-Induced Hydrodynamic Lubrication of Porous Films. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2015</b> , 7, 17587-91	9.5	11
35	Adhesion and friction of an isolated gecko setal array: The effects of substrates and relative humidity. <i>Biosurface and Biotribology</i> , <b>2015</b> , 1, 42-49	1	14
34	Flexible Control and Coupling of Adhesion and Friction of Gecko Setal Array During Sliding. <i>Tribology Online</i> , <b>2015</b> , 10, 106-114	0.9	5
33	Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. <i>Tribology Letters</i> , <b>2015</b> , 60, 1	2.8	8
32	Adhesives: Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko (Adv. Funct. Mater. 5/2014). <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 573-573	15.6	6
31	Tuning Carbon Content and Morphology of FeCo/Graphitic Carbon CoreShell Nanoparticles using a Salt-Matrix-Assisted CVD Process. <i>Particle and Particle Systems Characterization</i> , <b>2014</b> , 31, 474-480	3.1	10
30	Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko. <i>Advanced Functional Materials</i> , <b>2014</b> , 24, 574-579	15.6	67
29	Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. <i>Friction</i> , <b>2013</b> , 1, 114-129	5.6	102
28	Interfaces of propylene carbonate. <i>Journal of Chemical Physics</i> , <b>2013</b> , 138, 114708	3.9	12
27	Tuning the Crystal Structure and Magnetic Properties of CoNiFeB Thin Films. <i>Chemistry of Materials</i> , <b>2013</b> , 25, 2510-2514	9.6	1
26	Additive-mediated electrochemical synthesis of platelike copper crystals for methanol electrooxidation. <i>Langmuir</i> , <b>2013</b> , 29, 13135-9	4	26
25	Facile one-pot method of initiator fixation for surface-initiated atom transfer radical polymerization on carbon hard spheres. <i>Journal of Polymer Science Part A</i> , <b>2013</b> , 51, 3314-3322	2.5	7
24	Lubrication Properties of Phospholipid Liposome Coated Silk Microspheres. <i>Particle and Particle Systems Characterization</i> , <b>2013</b> , 30, 133-137	3.1	6

23	Origin of the contact angle hysteresis of water on chemisorbed and physisorbed self-assembled monolayers. <i>Langmuir</i> , <b>2012</b> , 28, 14609-17	4	59
22	Design of gecko-inspired fibrillar surfaces with strong attachment and easy-removal properties: a numerical analysis of peel-zone. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 2424-36	4.1	20
21	Design and fabrication of gecko-inspired adhesives. <i>Langmuir</i> , <b>2012</b> , 28, 5737-42	4	75
20	Use of electrochemical deposition to create randomly rough surfaces and roughness gradients. <i>Langmuir</i> , <b>2011</b> , 27, 3261-5	4	17
19	The Extended Peel Zone Model: Effect of Peeling Velocity <b>2011</b> , 87, 1045-1058		16
18	Gecko-Inspired Dry Adhesive for Robotic Applications. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 3010-3018	3.6	103
17	Carbon microspheres as network nodes in a novel biocompatible gel. <i>Soft Matter</i> , <b>2011</b> , 7, 4170	3.6	16
16	Carbon microspheres as ball bearings in aqueous-based lubrication. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2011</b> , 3, 2215-8	9.5	48
15	Marine Oil Fate: Knowledge Gaps, Basic Research, and Development Needs; A Perspective Based on the Deepwater Horizon Spill. <i>Environmental Engineering Science</i> , <b>2011</b> , 28, 87-93	2	70
14	Studies of bilayers and vesicle adsorption to solid substrates: development of a miniature streaming potential apparatus (SPA). <i>Langmuir</i> , <b>2010</b> , 26, 8684-9	4	19
13	Gecko adhesion pad: a smart surface?. <i>Journal of Physics Condensed Matter</i> , <b>2009</b> , 21, 464132	1.8	63
12	Role of tilted adhesion fibrils (setae) in the adhesion and locomotion of gecko-like systems. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 3615-21	3.4	61
11	The Crowding Model as a Tool to Understand and Fabricate Gecko-Inspired Dry Adhesives <b>2009</b> , 85, 512-525		17
10	Frictional adhesion of patterned surfaces and implications for gecko and biomimetic systems. <i>Langmuir</i> , <b>2009</b> , 25, 7486-95	4	67
9	Adhesion and friction force coupling of gecko setal arrays: implications for structured adhesive surfaces. <i>Langmuir</i> , <b>2008</b> , 24, 1517-24	4	97
8	Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System <b>2007</b> , 83, 383-401		138
7	Adhesion and friction in gecko toe attachment and detachment. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 19320-5	11.5	471
6	Fabrication of Complex Architectures Using Electrodeposition into Patterned Self-Assembled Monolayers. <i>Nano Letters</i> , <b>2006</b> , 6, 1023-1026	11.5	39

5	Kinetics of desorption of alkanethiolates on gold. <i>Langmuir</i> , <b>2006</b> , 22, 3474-6	4	35
4	Site-selective patterning using surfactant-based resists. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 11960-2	16.4	34
3	Relationship between Absorbance Spectra and Particle Size Distributions for Quantum-Sized Nanocrystals. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 10412-10415	3.4	186
2	The Influence of Anion on the Coarsening Kinetics of ZnO Nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 3124-3130	3.4	129
1	Quenching of Growth of ZnO Nanoparticles by Adsorption of Octanethiol. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 6985-6990	3.4	197