# Noshir Pesika

## List of Publications by Citations



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|---|---|---|---|
| 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 | Adhesion and friction in gecko toe attachment and detachment. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 19320-5 | 11.5 | 471 |
| 57 | Quenching of Growth of ZnO Nanoparticles by Adsorption of Octanethiol. *Journal of Physical Chemistry B*, **2002**, 106, 6985-6990 | 3.4 | 197 |
| 56 | Relationship between Absorbance Spectra and Particle Size Distributions for Quantum-Sized Nanocrystals. *Journal of Physical Chemistry B*, **2003**, 107, 10412-10415 | 3.4 | 186 |
| 55 | Peel-Zone Model of Tape Peeling Based on the Gecko Adhesive System **2007**, 83, 383-401 | | 138 |
| 54 | The Influence of Anion on the Coarsening Kinetics of ZnO Nanoparticles. *Journal of Physical Chemistry B*, **2003**, 107, 3124-3130 | 3.4 | 129 |
| 53 | Gecko-Inspired Dry Adhesive for Robotic Applications. *Advanced Functional Materials*, **2011**, 21, 3010-3018 | 15.6 | 103 |
| 52 | Recent advances in gecko adhesion and friction mechanisms and development of gecko-inspired dry adhesive surfaces. *Friction*, **2013**, 1, 114-129 | 5.6 | 102 |
| 51 | Adhesion and friction force coupling of gecko setal arrays: implications for structured adhesive surfaces. *Langmuir*, **2008**, 24, 1517-24 | 4 | 97 |
| 50 | Design and fabrication of gecko-inspired adhesives. *Langmuir*, **2012**, 28, 5737-42 | 4 | 75 |
| 49 | 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 | 2 | 70 |
| 48 | Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko. *Advanced Functional Materials*, **2014**, 24, 574-579 | 15.6 | 67 |
| 47 | Frictional adhesion of patterned surfaces and implications for gecko and biomimetic systems. *Langmuir*, **2009**, 25, 7486-95 | 4 | 67 |
| 46 | Gecko adhesion pad: a smart surface?. *Journal of Physics Condensed Matter*, **2009**, 21, 464132 | 1.8 | 63 |
| 45 | Controllable Anisotropic Dry Adhesion in Vacuum: Gecko Inspired Wedged Surface Fabricated with Ultraprecision Diamond Cutting. *Advanced Functional Materials*, **2017**, 27, 1606576 | 15.6 | 61 |
| 44 | Role of tilted adhesion fibrils (setae) in the adhesion and locomotion of gecko-like systems. *Journal of Physical Chemistry B*, **2009**, 113, 3615-21 | 3.4 | 61 |
| 43 | Origin of the contact angle hysteresis of water on chemisorbed and physisorbed self-assembled monolayers. *Langmuir*, **2012**, 28, 14609-17 | 4 | 59 |
| 42 | Carbon microspheres as ball bearings in aqueous-based lubrication. *ACS Applied Materials & Interfaces*, **2011**, 3, 2215-8 | 9.5 | 48 |

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|---|---|---|---|
| 41 | Fabrication of Complex Architectures Using Electrodeposition into Patterned Self-Assembled Monolayers. *Nano Letters*, **2006**, 6, 1023-1026 | 11.5 | 39 |
| 40 | Kinetics of desorption of alkanethiolates on gold. *Langmuir*, **2006**, 22, 3474-6 | 4 | 35 |
| 39 | Site-selective patterning using surfactant-based resists. *Journal of the American Chemical Society*, **2005**, 127, 11960-2 | 16.4 | 34 |
| 38 | Additive-mediated electrochemical synthesis of platelike copper crystals for methanol electrooxidation. *Langmuir*, **2013**, 29, 13135-9 | 4 | 26 |
| 37 | Hydrothermal Synthesis of Monodisperse Hard Carbon Spheres and Their Water-Based Lubrication. *Tribology Letters*, **2017**, 65, 1 | 2.8 | 21 |
| 36 | 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, 2424-36 | 4.1 | 20 |
| 35 | Studies of bilayers and vesicle adsorption to solid substrates: development of a miniature streaming potential apparatus (SPA). *Langmuir*, **2010**, 26, 8684-9 | 4 | 19 |
| 34 | Triboelectricity Generation from Vertically Aligned Carbon Nanotube Arrays. *ACS Applied Materials & Interfaces*, **2016**, 8, 27454-27457 | 9.5 | 18 |
| 33 | Anomalous Potential-Dependent Friction on Au(111) Measured by AFM. *Langmuir*, **2018**, 34, 801-806 | 4 | 17 |
| 32 | Use of electrochemical deposition to create randomly rough surfaces and roughness gradients. *Langmuir*, **2011**, 27, 3261-5 | 4 | 17 |
| 31 | The Crowding Model as a Tool to Understand and Fabricate Gecko-Inspired Dry Adhesives **2009**, 85, 512-525 | | 17 |
| 30 | The Extended Peel Zone Model: Effect of Peeling Velocity **2011**, 87, 1045-1058 | | 16 |
| 29 | Carbon microspheres as network nodes in a novel biocompatible gel. *Soft Matter*, **2011**, 7, 4170 | 3.6 | 16 |
| 28 | Hydrogel Inverse Replicas of Breath Figures Exhibit Superoleophobicity Due to Patterned Surface Roughness. *Langmuir*, **2016**, 32, 1009-17 | 4 | 14 |
| 27 | Adhesion and friction of an isolated gecko setal array: The effects of substrates and relative humidity. *Biosurface and Biotribology*, **2015**, 1, 42-49 | 1 | 14 |
| 26 | Interaction of oil drops with surfaces of different interfacial energy and topography. *Langmuir*, **2015**, 31, 3385-90 | 4 | 12 |
| 25 | Interfaces of propylene carbonate. *Journal of Chemical Physics*, **2013**, 138, 114708 | 3.9 | 12 |
| 24 | Enhanced Adhesion of Mosquitoes to Rough Surfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 24373-24380 | 9.5 | 12 |

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| 23 | Load-Induced Hydrodynamic Lubrication of Porous Films. *ACS Applied Materials & Interfaces*, **2015**, 7, 17587-91 | 9.5 | 11 |
| 22 | Vertically-Aligned Carbon Nanotube Arrays as Binder-Free Supports for Nickel Cobaltite based Faradaic Supercapacitor Electrodes. *Electrochimica Acta*, **2017**, 236, 408-416 | 6.7 | 10 |
| 21 | Tuning Carbon Content and Morphology of FeCo/Graphitic Carbon Core–Shell Nanoparticles using a Salt-Matrix-Assisted CVD Process. *Particle and Particle Systems Characterization*, **2014**, 31, 474-480 | 3.1 | 10 |
| 20 | Clumping Criteria of Vertical Nanofibers on Surfaces. *Advanced Materials Interfaces*, **2015**, 2, 1400466 | 4.6 | 9 |
| 19 | Trilayered Film with Excellent Tribological Performance: A Combination of Graphene Oxide and Perfluoropolyethers. *Tribology Letters*, **2015**, 60, 1 | 2.8 | 8 |
| 18 | Synthesis of Hard Carbon/Iron Microspheres and Their Aqueous-Based Tribological Performance Under Magnetic Field. *Tribology Letters*, **2016**, 64, 1 | 2.8 | 7 |
| 17 | Facile one-pot method of initiator fixation for surface-initiated atom transfer radical polymerization on carbon hard spheres. *Journal of Polymer Science Part A*, **2013**, 51, 3314-3322 | 2.5 | 7 |
| 16 | Adhesives: Biomimetic Bidirectional Switchable Adhesive Inspired by the Gecko (Adv. Funct. Mater. 5/2014). *Advanced Functional Materials*, **2014**, 24, 573-573 | 15.6 | 6 |
| 15 | Lubrication Properties of Phospholipid Liposome Coated Silk Microspheres. *Particle and Particle Systems Characterization*, **2013**, 30, 133-137 | 3.1 | 6 |
| 14 | Flexible Control and Coupling of Adhesion and Friction of Gecko Setal Array During Sliding. *Tribology Online*, **2015**, 10, 106-114 | 0.9 | 5 |
| 13 | Propulsion Principles of Water Striders in Sculling Forward through Shadow Method. *Journal of Bionic Engineering*, **2018**, 15, 516-525 | 2.7 | 5 |
| 12 | Water-Based Lubrication of Hard Carbon Microspheres as Lubricating Additives. *Tribology Letters*, **2018**, 66, 1 | 2.8 | 4 |
| 11 | Role of Interfacial Water and Applied Potential on Friction at Au(111) Surfaces. *Frontiers in Mechanical Engineering*, **2019**, 5, | 2.6 | 3 |
| 10 | Polymer grafted hard carbon microspheres at an oil/water interface. *Journal of Colloid and Interface Science*, **2016**, 470, 31-38 | 9.3 | 3 |
| 9 | Tunable Friction Through Stimuli Responsive Hybrid Carbon Microspheres. *Langmuir*, **2019**, 35, 15849-15854 | 4 | 3 |
| 8 | Determination of the Sliding Angle of Water Drops on Surfaces from Friction Force Measurements.. *Langmuir*, **2022**, | 4 | 3 |
| 7 | Quantification/mechanism of interfacial interaction modulated by electric potential in aqueous salt solution. *Friction*, **2021**, 9, 513-523 | 5.6 | 3 |
| 6 | Hierarchical patterning of hydrogels by replica molding of impregnated breath figures leads to superoleophobicity. *Nanoscale*, **2016**, 8, 18446-18453 | 7.7 | 2 |

# List of Publications

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| 5 | Nanofibers: Clumping Criteria of Vertical Nanofibers on Surfaces (Adv. Mater. Interfaces 5/2015). *Advanced Materials Interfaces*, **2015**, 2, | 4.6 | 1 |
| 4 | Tuning the Crystal Structure and Magnetic Properties of CoNiFeB Thin Films. *Chemistry of Materials*, **2013**, 25, 2510-2514 | 9.6 | 1 |
| 3 | Role of structural stiffness on the loading capacity of fibrillar adhesive composite. *Extreme Mechanics Letters*, **2020**, 41, 101001 | 3.9 | 1 |
| 2 | Preface to the Early Career Authors in Fundamental Colloid and Interface Science Special Issue. *Langmuir*, **2018**, 34, 727-728 | 4 | |
| 1 | Shapes of Nonsymmetric Capillary Bridges. *Journal of Physical Chemistry B*, **2021**, 125, 12378-12383 | 3.4 | |