

Yunlu Pan

List of Publications by Year in descending order

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Version: 2024-02-01

70
papers

2,023
citations

201674

27
h-index

254184

43
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70
all docs

70
docs citations

70
times ranked

1979
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | A fully integrated graphene-polymer field-effect transistor biosensing device for on-site detection of glucose in human urine. <i>Materials Today Chemistry</i> , 2022, 23, 100635. | 3.5 | 8 |
| 2 | An Ultraflexible and Transparent Graphene-Based Wearable Sensor for Biofluid Biomarkers Detection. <i>Advanced Materials Technologies</i> , 2022, 7, . | 5.8 | 9 |
| 3 | Ultrasensitive Graphene-Based Nanobiosensor for Rapid Detection of Hemoglobin in Undiluted Biofluids. <i>ACS Applied Bio Materials</i> , 2022, 5, 1624-1632. | 4.6 | 2 |
| 4 | Ultra-sensitive and rapid screening of acute myocardial infarction using 3D-affinity graphene biosensor. <i>Cell Reports Physical Science</i> , 2022, 3, 100855. | 5.6 | 17 |
| 5 | Eco-friendly Dopamine-Modified Silica Nanoparticles for Oil-Repellent Coatings: Implications for Underwater Self-Cleaning and Antifogging Applications. <i>ACS Applied Nano Materials</i> , 2022, 5, 8038-8047. | 5.0 | 11 |
| 6 | A Flexible and Regenerative Aptameric Graphene-Nafion Biosensor for Cytokine Storm Biomarker Monitoring in Undiluted Biofluids toward Wearable Applications. <i>Advanced Functional Materials</i> , 2021, 31, 2005958. | 14.9 | 86 |
| 7 | Cytokine Storm Biomarkers: A Flexible and Regenerative Aptameric Graphene-Nafion Biosensor for Cytokine Storm Biomarker Monitoring in Undiluted Biofluids toward Wearable Applications (Adv.) <i>Tj ETQq1 1 0.784314 rgBT1/Overlook</i> | 14.9 | 86 |
| 8 | An Intelligent Graphene-Based Biosensing Device for Cytokine Storm Syndrome Biomarkers Detection in Human Biofluids. <i>Small</i> , 2021, 17, e2101508. | 10.0 | 44 |
| 9 | Ultra-robust superwetting hierarchical membranes constructed by coordination complex networks for oily water treatment. <i>Journal of Membrane Science</i> , 2021, 627, 119234. | 8.2 | 79 |
| 10 | Hygro-responsive, Photo-decomposed Superoleophobic/Superhydrophilic Coating for On-Demand Oil-Water Separation. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 35142-35152. | 8.0 | 46 |
| 11 | Core-shell magnetic nanoparticles for substrate-independent super-amphiphobic surfaces and mechanochemically robust liquid marbles. <i>Chemical Engineering Journal</i> , 2020, 391, 123523. | 12.7 | 20 |
| 12 | A Wearable and Deformable Graphene-Based Affinity Nanosensor for Monitoring of Cytokines in Biofluids. <i>Nanomaterials</i> , 2020, 10, 1503. | 4.1 | 43 |
| 13 | Superhydrophilic Al ₂ O ₃ Particle Layer for Efficient Separation of Oil-in-Water (O/W) and Water-in-Oil (W/O) Emulsions. <i>Langmuir</i> , 2020, 36, 13285-13291. | 3.5 | 14 |
| 14 | Modulating the Linker Immobilization Density on Aptameric Graphene Field Effect Transistors Using an Electric Field. <i>ACS Sensors</i> , 2020, 5, 2503-2513. | 7.8 | 40 |
| 15 | Multifunctional TiO ₂ -Based Superoleophobic/Superhydrophilic Coating for Oil-Water Separation and Oil Purification. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 18074-18083. | 8.0 | 87 |
| 16 | An integrated flexible and reusable graphene field effect transistor nanosensor for monitoring glucose. <i>Journal of Materiomics</i> , 2020, 6, 308-314. | 5.7 | 26 |
| 17 | Slip-shear and inertial migration of finite-size spheres in plane Poiseuille flow. <i>Computational Materials Science</i> , 2020, 176, 109542. | 3.0 | 1 |
| 18 | ANALYSIS OF LIQUID MEDIATED CONTACT OF GLASS COLLOIDAL PARTICLE WITH POLYSTYRENE COATED SURFACE. <i>Surface Review and Letters</i> , 2020, 27, 1950101. | 1.1 | 0 |

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|----|--|------|-----------|
| 19 | On-demand oil/water separation enabled by magnetic super-oleophobic/super-hydrophilic surfaces with solvent-responsive wettability transition. <i>Applied Surface Science</i> , 2020, 533, 147092. | 6.1 | 27 |
| 20 | Sensitive detection of lung cancer biomarkers using an aptameric graphene-based nanosensor with enhanced stability. <i>Biomedical Microdevices</i> , 2019, 21, 65. | 2.8 | 29 |
| 21 | Surfaces with controllable super-wettability and applications for smart oil-water separation. <i>Chemical Engineering Journal</i> , 2019, 378, 122178. | 12.7 | 52 |
| 22 | Ultraviolet-driven switchable superoleophobic/superoleophilic coating for separation of oil-water mixtures and emulsions and water purification. <i>Journal of Colloid and Interface Science</i> , 2019, 557, 395-407. | 9.4 | 48 |
| 23 | Establishment of a Standard Method for Boundary Slip Measurement on Smooth Surfaces Based on AFM. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1453. | 2.5 | 7 |
| 24 | Rapid, ultraviolet-induced, reversibly switchable wettability of superhydrophobic/superhydrophilic surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 866-873. | 2.8 | 23 |
| 25 | Bioinspired superoleophobic/superhydrophilic functionalized cotton for efficient separation of immiscible oil-water mixtures and oil-water emulsions. <i>Journal of Colloid and Interface Science</i> , 2019, 548, 123-130. | 9.4 | 109 |
| 26 | Graphene-based fully integrated portable nanosensing system for on-line detection of cytokine biomarkers in saliva. <i>Biosensors and Bioelectronics</i> , 2019, 134, 16-23. | 10.1 | 115 |
| 27 | Mechanochemical robust, magnetic-driven, superhydrophobic 3D porous materials for contaminated oil recovery. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 25-33. | 9.4 | 37 |
| 28 | Flexible, Durable, and Unconditioned Superoleophobic/Superhydrophilic Surfaces for Controllable Transport and Oil-Water Separation. <i>Advanced Functional Materials</i> , 2018, 28, 1706867. | 14.9 | 203 |
| 29 | Size dependences of hydraulic resistance and heat transfer of fluid flow in elliptical microchannel heat sinks with boundary slip. <i>International Journal of Heat and Mass Transfer</i> , 2018, 119, 647-653. | 4.8 | 43 |
| 30 | Preparation of colloidal crystal template for inverse opal hydrogels. <i>Composite Interfaces</i> , 2018, 25, 251-258. | 2.3 | 1 |
| 31 | Measurement of cytokine biomarkers using an aptamer-based affinity graphene nanosensor on a flexible substrate toward wearable applications. <i>Nanoscale</i> , 2018, 10, 21681-21688. | 5.6 | 69 |
| 32 | Selective Superwettability: Flexible, Durable, and Unconditioned Superoleophobic/Superhydrophilic Surfaces for Controllable Transport and Oil-Water Separation (<i>Adv. Funct. Mater.</i> 20/2018). <i>Advanced Functional Materials</i> , 2018, 28, 1870136. | 14.9 | 3 |
| 33 | Measurement and Quantification of Effective Slip Length at Solid-Liquid Interface of Roughness-Induced Surfaces with Oleophobicity. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 931. | 2.5 | 9 |
| 34 | Effective Boundary Slip Induced by Surface Roughness and Their Coupled Effect on Convective Heat Transfer of Liquid Flow. <i>Entropy</i> , 2018, 20, 334. | 2.2 | 8 |
| 35 | Humanoid Identification of Fabric Material Properties by Vibration Spectrum Analysis. <i>Sensors</i> , 2018, 18, 1820. | 3.8 | 4 |
| 36 | Characterization and Bioreplication of <i>Tradescantia pallida</i> Inspired Biomimetic Superwettability for Dual Way Patterned Water Harvesting. <i>Advanced Materials Interfaces</i> , 2018, 5, 1800723. | 3.7 | 14 |

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|----|--|------|-----------|
| 37 | Valid data based normalized cross-correlation (VDNCC) for topography identification. Neurocomputing, 2018, 308, 184-193. | 5.9 | 37 |
| 38 | Optimal fractal tree-like microchannel networks with slip for laminar-flow-modified Murray's law. Beilstein Journal of Nanotechnology, 2018, 9, 482-489. | 2.8 | 17 |
| 39 | Coexistence of superhydrophilicity and superoleophobicity: theory, experiments and applications in oil/water separation. Journal of Materials Chemistry A, 2018, 6, 15057-15063. | 10.3 | 102 |
| 40 | Joule heating, viscous dissipation and convective heat transfer of pressure-driven flow in a microchannel with surface charge-dependent slip. International Journal of Heat and Mass Transfer, 2017, 108, 1305-1313. | 4.8 | 42 |
| 41 | Effect of Surface Charge on the Nanofriction and Its Velocity Dependence in an Electrolyte Based on Lateral Force Microscopy. Langmuir, 2017, 33, 1792-1798. | 3.5 | 7 |
| 42 | The non-monotonic overlapping EDL-induced electroviscous effect with surface charge-dependent slip and its size dependence. International Journal of Heat and Mass Transfer, 2017, 113, 32-39. | 4.8 | 28 |
| 43 | Effect of surface morphology on measurement and interpretation of boundary slip on superhydrophobic surfaces. Surface and Interface Analysis, 2017, 49, 594-598. | 1.8 | 10 |
| 44 | A Facile and Effective Method to Fabricate Superhydrophobic/Superoleophilic Surface for the Separation of Both Water/Oil Mixtures and Water-in-Oil Emulsions. Polymers, 2017, 9, 563. | 4.5 | 14 |
| 45 | Tactile Perception of Roughness and Hardness to Discriminate Materials by Friction-Induced Vibration. Sensors, 2017, 17, 2748. | 3.8 | 32 |
| 46 | The effect of the electrical double layer on hydrodynamic lubrication: a non-monotonic trend with increasing zeta potential. Beilstein Journal of Nanotechnology, 2017, 8, 1515-1522. | 2.8 | 8 |
| 47 | Interface conditions of roughness-induced superoleophilic and superoleophobic surfaces immersed in hexadecane and ethylene glycol. Beilstein Journal of Nanotechnology, 2017, 8, 2504-2514. | 2.8 | 2 |
| 48 | Effect of Surface Roughness on the Measurement of Boundary Slip Based on Atomic Force Microscope. Science of Advanced Materials, 2017, 9, 122-127. | 0.7 | 6 |
| 49 | AFM Study on the Boundary Condition, Surface Potential and the Viscosity of the Magnetic Treated Liquids. Science of Advanced Materials, 2017, 9, 144-150. | 0.7 | 2 |
| 50 | Characterization of spherical domains at the polystyrene thin film-water interface. Beilstein Journal of Nanotechnology, 2016, 7, 581-590. | 2.8 | 5 |
| 51 | Simulation of Effective Slip and Drag in Pressure-Driven Flow on Superhydrophobic Surfaces. Journal of Nanomaterials, 2016, 2016, 1-9. | 2.7 | 5 |
| 52 | Study on Nanobubble-on-Pancake Objects Forming at Polystyrene/Water Interface. Langmuir, 2016, 32, 11256-11264. | 3.5 | 19 |
| 53 | Measurements of slip length for flows over graphite surface with gas domains. Applied Physics Letters, 2016, 109, . | 3.3 | 12 |
| 54 | Extraction of individual characteristics of breech face impressions in ballistic identification using optimal Gaussian filter parameters. , 2016, , . | | 0 |

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|----|--|-----|-----------|
| 55 | Study of the Relationship between Boundary Slip and Nanobubbles on a Smooth Hydrophobic Surface. <i>Langmuir</i> , 2016, 32, 11287-11294. | 3.5 | 35 |
| 56 | Electroviscous effect and convective heat transfer of pressure-driven flow through microtubes with surface charge-dependent slip. <i>International Journal of Heat and Mass Transfer</i> , 2016, 101, 648-655. | 4.8 | 45 |
| 57 | Surface charge-induced EDL interaction on the contact angle of surface nanobubbles. <i>Langmuir</i> , 2016, 32, 11123-11132. | 3.5 | 10 |
| 58 | Atomic Force Microscopy Measurement of Slip on Smooth Hydrophobic Surfaces and Possible Artifacts. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12531-12537. | 3.1 | 13 |
| 59 | Design and analysis of a GMM actuator for active vibration isolation. , 2015, , . | | 0 |
| 60 | The study of surface wetting, nanobubbles and boundary slip with an applied voltage: A review. <i>Beilstein Journal of Nanotechnology</i> , 2014, 5, 1042-1065. | 2.8 | 48 |
| 61 | Analysis of Slip Induced One Dimensional MHD Flow between Parallel Plates. <i>Applied Mechanics and Materials</i> , 2014, 618, 159-163. | 0.2 | 0 |
| 62 | Coalescence and Stability Analysis of Surface Nanobubbles on the Polystyrene/Water Interface. <i>Langmuir</i> , 2014, 30, 6079-6088. | 3.5 | 47 |
| 63 | Influence of Polystyrene (PS) solution concentration on the formation of nanobubbles. , 2013, , . | | 1 |
| 64 | Role of surface charge on boundary slip in fluid flow. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 117-121. | 9.4 | 37 |
| 65 | AFM characterization of nanobubble formation and slip condition in oxygenated and electrokinetically altered fluids. <i>Journal of Colloid and Interface Science</i> , 2013, 392, 105-116. | 9.4 | 39 |
| 66 | Slip Length Measurement of Confined Air Flow on Three Smooth Surfaces. <i>Langmuir</i> , 2013, 29, 4298-4302. | 3.5 | 5 |
| 67 | An improved method for measuring boundary slip on hydrophobic surface with atomic force microscope. , 2013, , . | | 0 |
| 68 | Hydrodynamic drag-force measurement and slip length on microstructured surfaces. <i>Physical Review E</i> , 2012, 85, 066310. | 2.1 | 33 |
| 69 | Role of Electric Field on Surface Wetting of Polystyrene Surface. <i>Langmuir</i> , 2011, 27, 9425-9429. | 3.5 | 27 |
| 70 | Role of Electric Field on Electroviscosity. <i>Advanced Materials Research</i> , 0, 803, 438-441. | 0.3 | 0 |