

Yunlu Pan

List of Publications by Year in descending order

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70
papers

2,023
citations

201674

27
h-index

254184

43
g-index

70
all docs

70
docs citations

70
times ranked

1979
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	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
3	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
4	Coexistence of superhydrophilicity and superoleophobicity: theory, experiments and applications in oil/water separation. <i>Journal of Materials Chemistry A</i> , 2018, 6, 15057-15063.	10.3	102
5	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
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	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
8	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
9	Surfaces with controllable super-wettability and applications for smart oil-water separation. <i>Chemical Engineering Journal</i> , 2019, 378, 122178.	12.7	52
10	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
11	Ultraviolet-driven switchable superliquiphobic/superliquiphilic 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
12	Coalescence and Stability Analysis of Surface Nanobubbles on the Polystyrene/Water Interface. <i>Langmuir</i> , 2014, 30, 6079-6088.	3.5	47
13	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
14	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
15	An Intelligent Graphene–Based Biosensing Device for Cytokine Storm Syndrome Biomarkers Detection in Human Biofluids. <i>Small</i> , 2021, 17, e2101508.	10.0	44
16	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
17	A Wearable and Deformable Graphene-Based Affinity Nanosensor for Monitoring of Cytokines in Biofluids. <i>Nanomaterials</i> , 2020, 10, 1503.	4.1	43
18	Joule heating, viscous dissipation and convective heat transfer of pressure-driven flow in a microchannel with surface charge-dependent slip. <i>International Journal of Heat and Mass Transfer</i> , 2017, 108, 1305-1313.	4.8	42

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19	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
20	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
21	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
22	Valid data based normalized cross-correlation (VDNCC) for topography identification. <i>Neurocomputing</i> , 2018, 308, 184-193.	5.9	37
23	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
24	Study of the Relationship between Boundary Slip and Nanobubbles on a Smooth Hydrophobic Surface. <i>Langmuir</i> , 2016, 32, 11287-11294.	3.5	35
25	Hydrodynamic drag-force measurement and slip length on microstructured surfaces. <i>Physical Review E</i> , 2012, 85, 066310.	2.1	33
26	Tactile Perception of Roughness and Hardness to Discriminate Materials by Friction-Induced Vibration. <i>Sensors</i> , 2017, 17, 2748.	3.8	32
27	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
28	The non-monotonic overlapping EDL-induced electroviscous effect with surface charge-dependent slip and its size dependence. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 32-39.	4.8	28
29	Role of Electric Field on Surface Wetting of Polystyrene Surface. <i>Langmuir</i> , 2011, 27, 9425-9429.	3.5	27
30	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
31	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
32	Rapid, ultraviolet-induced, reversibly switchable wettability of superhydrophobic/superhydrophilic surfaces. <i>Beilstein Journal of Nanotechnology</i> , 2019, 10, 866-873.	2.8	23
33	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
34	Study on Nanobubble-on-Pancake Objects Forming at Polystyrene/Water Interface. <i>Langmuir</i> , 2016, 32, 11256-11264.	3.5	19
35	Optimal fractal tree-like microchannel networks with slip for laminar-flow-modified Murray's law. <i>Beilstein Journal of Nanotechnology</i> , 2018, 9, 482-489.	2.8	17
36	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

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37	A Facile and Effective Method to Fabricate Superhydrophobic/Superoleophilic Surface for the Separation of Both Water/Oil Mixtures and Water-in-Oil Emulsions. <i>Polymers</i> , 2017, 9, 563.	4.5	14
38	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
39	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
40	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
41	Measurements of slip length for flows over graphite surface with gas domains. <i>Applied Physics Letters</i> , 2016, 109, .	3.3	12
42	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
43	Surface charge-induced EDL interaction on the contact angle of surface nanobubbles. <i>Langmuir</i> , 2016, 32, 11123-11132.	3.5	10
44	Effect of surface morphology on measurement and interpretation of boundary slip on superhydrophobic surfaces. <i>Surface and Interface Analysis</i> , 2017, 49, 594-598.	1.8	10
45	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
46	An Ultraflexible and Transparent Graphene-Based Wearable Sensor for Biofluid Biomarkers Detection. <i>Advanced Materials Technologies</i> , 2022, 7, .	5.8	9
47	The effect of the electrical double layer on hydrodynamic lubrication: a non-monotonic trend with increasing zeta potential. <i>Beilstein Journal of Nanotechnology</i> , 2017, 8, 1515-1522.	2.8	8
48	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
49	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
50	Effect of Surface Charge on the Nanofriction and Its Velocity Dependence in an Electrolyte Based on Lateral Force Microscopy. <i>Langmuir</i> , 2017, 33, 1792-1798.	3.5	7
51	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
52	Effect of Surface Roughness on the Measurement of Boundary Slip Based on Atomic Force Microscope. <i>Science of Advanced Materials</i> , 2017, 9, 122-127.	0.7	6
53	Slip Length Measurement of Confined Air Flow on Three Smooth Surfaces. <i>Langmuir</i> , 2013, 29, 4298-4302.	3.5	5
54	Characterization of spherical domains at the polystyrene thin film-water interface. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 581-590.	2.8	5

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55	Simulation of Effective Slip and Drag in Pressure-Driven Flow on Superhydrophobic Surfaces. Journal of Nanomaterials, 2016, 2016, 1-9.	2.7	5
56	Humanoid Identification of Fabric Material Properties by Vibration Spectrum Analysis. Sensors, 2018, 18, 1820.	3.8	4
57	Selective Superwettability: Flexible, Durable, and Unconditioned Superoleophobic/Superhydrophilic Surfaces for Controllable Transport and Oil/Water Separation (Adv. Funct. Mater. 20/2018). Advanced Functional Materials, 2018, 28, 1870136.	14.9	3
58	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
59	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
60	Ultrasensitive Graphene-Based Nanobiosensor for Rapid Detection of Hemoglobin in Undiluted Biofluids. ACS Applied Bio Materials, 2022, 5, 1624-1632.	4.6	2
61	Influence of Polystyrene (PS) solution concentration on the formation of nanobubbles. , 2013, , .		1
62	Preparation of colloidal crystal template for inverse opal hydrogels. Composite Interfaces, 2018, 25, 251-258.	2.3	1
63	Slip-shear and inertial migration of finite-size spheres in plane Poiseuille flow. Computational Materials Science, 2020, 176, 109542.	3.0	1
64	Cytokine Storm Biomarkers: A Flexible and Regenerative Aptameric Graphene/Nafion Biosensor for Cytokine Storm Biomarker Monitoring in Undiluted Biofluids toward Wearable Applications (Adv.) Tj ETQq0 0 0 rgBT4/0verlock 10 Tf 50		0
65	Role of Electric Field on Electroviscosity. Advanced Materials Research, 0, 803, 438-441.	0.3	0
66	An improved method for measuring boundary slip on hydrophobic surface with atomic force microscope. , 2013, , .		0
67	Analysis of Slip Induced One Dimensional MHD Flow between Parallel Plates. Applied Mechanics and Materials, 2014, 618, 159-163.	0.2	0
68	Design and analysis of a GMM actuator for active vibration isolation. , 2015, , .		0
69	Extraction of individual characteristics of breech face impressions in ballistic identification using optimal Gaussian filter parameters. , 2016, , .		0
70	ANALYSIS OF LIQUID MEDIATED CONTACT OF GLASS COLLOIDAL PARTICLE WITH POLYSTYRENE COATED SURFACE. Surface Review and Letters, 2020, 27, 1950101.	1.1	0