Anish Tuteja

List of Publications by Year
in descending order

42 papers	8,720 citations	186265 28 h-index	243625 44 g-index
46 all docs	46 docs citations	46 times ranked	7100 citing authors

#	Article	IF	Citations
1	Designing Superoleophobic Surfaces. Science, 2007, 318, 1618-1622.	12.6	2,610
2	Hygro-responsive membranes for effective oilâ€“water separation. Nature Communications, 2012, 3, 1025.	12.8	1,033
3	Robust omniphobic surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 18200-18205.	7.1	1,015
4	Designing durable icephobic surfaces. Science Advances, 2016, 2, e1501496.	10.3	488
5	Superomniphobic Surfaces for Effective Chemical Shielding. Journal of the American Chemical Society, 2013, 135, 578-581.	13.7	433
6	Lowâ€“interfacial toughness materials for effective large-scale deicing. Science, 2019, 364, 371-375.	12.6	326
7	The design and applications of superomniphobic surfaces. NPG Asia Materials, 2014, 6, e109-e109.	7.9	314
8	Design Parameters for Superhydrophobicity and Superoleophobicity. MRS Bulletin, 2008, 33, 752-758.	3.5	308
9	Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis. Advanced Materials, 2012, 24, 5838-5843.	21.0	288
10	Designing Self-Healing Superhydrophobic Surfaces with Exceptional Mechanical Durability. ACS Applied Materials & Interfaces, 2017, 9, 11212-11223.	8.0	198
11	Superomniphobic surfaces: Design and durability. MRS Bulletin, 2013, 38, 383-390.	3.5	152
12	Scale Dependence of Omniphobic Mesh Surfaces. Langmuir, 2010, 26, 4027-4035.	3.5	129
13	A predictive framework for the design and fabrication of icephobic polymers. Science Advances, 2017, 3, e1701617.	10.3	123
14	Characterization of superhydrophobic surfaces for drag reduction in turbulent flow. Journal of Fluid Mechanics, 2018, 845, 560-580.	3.4	118
15	Design and applications of surfaces that control the accretion of matter. Science, 2021, 373, .	12.6	114
16	Transparent, Flexible, Superomniphobic Surfaces with Ultraâ€Low Contact Angle Hysteresis. Angewandte Chemie - International Edition, 2013, 52, 13007-13011.	13.8	112
17	Smooth, All-Solid, Low-Hysteresis, Omniphobic Surfaces with Enhanced Mechanical Durability. ACS Applied Materials & Interfaces, 2018, 10, 11406-11413.	8.0	85
18	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. Journal of Fluid Mechanics, 2016, 801, 670-703.	3.4	83

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19	Paperâ€Based Surfaces with Extreme Wettabilities for Novel, Openâ€Channel Microfluidic Devices. Advanced Functional Materials, 2016, 26, 6121-6131.	14.9	82
20	Patterned Superomniphobicâ€“Superomniphilic Surfaces: Templates for Siteâ€Selective Selfâ€Assembly. Angewandte Chemie - International Edition, 2012, 51, 10109-10113.	13.8	80
21	Superoleophobic Surfaces through Control of Sprayed-on Stochastic Topography. Langmuir, 2012, 28, 9834-9841.	3.5	75
22	Membranes with selective wettability for the separation of oil-water mixtures. MRS Communications, 2015, 5, 475-494.	1.8	75
23	Bioinspired surfaces for turbulent drag reduction. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20160189.	3.4	69
24	Influence of textural statistics on drag reduction by scalable, randomly rough superhydrophobic surfaces in turbulent flow. Physics of Fluids, 2019, 31, .	4.0	59
25	Rational Design of Hyperbranched Nanowire Systems for Tunable Superomniphobic Surfaces Enabled by Atomic Layer Deposition. ACS Nano, 2017, 11, 478-489.	14.6	54
26	Open-channel, water-in-oil emulsification in paper-based microfluidic devices. Lab on A Chip, 2017, 17, 1436-1441.	6.0	36
27	Design of surfaces for controlling hard and soft fouling. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180266.	3.4	34
28	Surface design strategies for mitigating ice and snow accretion. Matter, 2022, 5, 1423-1454.	10.0	31
29	Wettability Engendered Templated Self-assembly (WETS) for Fabricating Multiphasic Particles. ACS Applied Materials & Interfaces, 2015, 7, 4075-4080.	8.0	21
30	Rational Design of Transparent Nanowire Architectures with Tunable Geometries for Preventing Marine Fouling. Advanced Materials Interfaces, 2020, 7, 2000672.	3.7	19
31	Lysis and direct detection of coliforms on printed paper-based microfluidic devices. Lab on A Chip, 2020, 20, 4413-4419.	6.0	17
32	Non-Fluorinated, Superhydrophobic Binder-Filler Coatings on Smooth Surfaces: Controlled Phase Separation of Particles to Enhance Mechanical Durability. Langmuir, 2021, 37, 3104-3112.	3.5	16
33	Rapid and Robust Surface Treatment for Simultaneous Solid and Liquid Repellency. ACS Applied Materials & Interfaces, 2021, 13, 53171-53180.	8.0	15
34	Superoleophobic Surfaces. ACS Symposium Series, 2012, , 171-185.	0.5	14
35	Facilitating Largeâ€Scale Snow Shedding from Inâ€Field Solar Arrays using Icephobic Surfaces with Lowâ€Interfacial Toughness. Advanced Materials Technologies, 2022, 7, 2101032.	5.8	14
36	Superoleophobic Surfaces: Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis (Adv. Mater. 43/2012). Advanced Materials, 2012, 24, 5837-5837.	21.0	11

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37	Wettability Engendered Templated Self-Assembly (WETS) for the Fabrication of Biocompatible, Polymerâ€"Polyelectrolyte Janus Particles. ACS Macro Letters, 2019, 8, 1491-1497.	4.8	9
38	Durable Liquid- and Solid-Repellent Elastomeric Coatings Infused with Partially Crosslinked Lubricants. ACS Applied Materials & Interfaces, 2022, 14, 22466-22475.	8.0	7
39	Inkjet-printed micro-calibration standards for ultraquantitative Raman spectral cytometry. Analyst, The, 2019, 144, 3790-3799.	3.5	5
40	Novel Omniphobic Platform for Multicellular Spheroid Generation, Drug Screening, and On-Plate Analysis. Analytical Chemistry, 2021, 93, 8054-8061.	6.5	4
41	Continuous Liquidâ€"Liquid Extraction and in-Situ Membrane Separation of Miscible Liquid Mixtures. Langmuir, 2021, 37, 13595-13601.	3.5	2
42	InnenrÃ¼cktitelbild: Transparent, Flexible, Superomniphobic Surfaces with Ultra-Low Contact Angle Hysteresis (Angew. Chem. 49/2013). Angewandte Chemie, 2013, 125, 13343-13343.	2.0	0