Anish Tuteja

List of Publications by Citations

43 papers	7,107 citations	26 h-index	46 g-index
46 ext. papers	7,898 ext. citations	10.1 avg, IF	6.02 L-index

#	Paper	IF	Citations
43	Designing superoleophobic surfaces. *Science*, **2007**, 318, 1618-22	33.3	2287
42	Robust omniphobic surfaces. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 18200-5	11.5	891
41	Hygro-responsive membranes for effective oil-water separation. *Nature Communications*, **2012**, 3, 1025	17.4	884
40	Superomniphobic surfaces for effective chemical shielding. *Journal of the American Chemical Society*, **2013**, 135, 578-81	16.4	388
39	Designing durable icephobic surfaces. *Science Advances*, **2016**, 2, e1501496	14.3	341
38	Design Parameters for Superhydrophobicity and Superoleophobicity. *MRS Bulletin*, **2008**, 33, 752-758	3.2	285
37	Hierarchically structured superoleophobic surfaces with ultralow contact angle hysteresis. *Advanced Materials*, **2012**, 24, 5838-43	24	261
36	The design and applications of superomniphobic surfaces. *NPG Asia Materials*, **2014**, 6, e109-e109	10.3	241
35	Low-interfacial toughness materials for effective large-scale deicing. *Science*, **2019**, 364, 371-375	33.3	166
34	Designing Self-Healing Superhydrophobic Surfaces with Exceptional Mechanical Durability. *ACS Applied Materials & Interfaces*, **2017**, 9, 11212-11223	9.5	139
33	Superomniphobic surfaces: Design and durability. *MRS Bulletin*, **2013**, 38, 383-390	3.2	133
32	Scale dependence of omniphobic mesh surfaces. *Langmuir*, **2010**, 26, 4027-35	4	121
31	Transparent, flexible, superomniphobic surfaces with ultra-low contact angle hysteresis. *Angewandte Chemie - International Edition*, **2013**, 52, 13007-11	16.4	99
30	A predictive framework for the design and fabrication of icephobic polymers. *Science Advances*, **2017**, 3, e1701617	14.3	78
29	Characterization of superhydrophobic surfaces for drag reduction in turbulent flow. *Journal of Fluid Mechanics*, **2018**, 845, 560-580	3.7	75
28	Patterned superomniphobic-superomniphilic surfaces: templates for site-selective self-assembly. *Angewandte Chemie - International Edition*, **2012**, 51, 10109-13	16.4	73
27	Superoleophobic surfaces through control of sprayed-on stochastic topography. *Langmuir*, **2012**, 28, 9834-41	4	70

26	Membranes with selective wettability for the separation of oil-water mixtures. *MRS Communications*, **2015**, 5, 475-494	2.7	65
25	Paper-Based Surfaces with Extreme Wettabilities for Novel, Open-Channel Microfluidic Devices. *Advanced Functional Materials*, **2016**, 26, 6121-6131	15.6	63
24	Smooth, All-Solid, Low-Hysteresis, Omniphobic Surfaces with Enhanced Mechanical Durability. *ACS Applied Materials & Interfaces*, **2018**, 10, 11406-11413	9.5	59
23	High-resolution velocity measurement in the inner part of turbulent boundary layers over super-hydrophobic surfaces. *Journal of Fluid Mechanics*, **2016**, 801, 670-703	3.7	59
22	Bioinspired surfaces for turbulent drag reduction. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2016**, 374,	3	52
21	Rational Design of Hyperbranched Nanowire Systems for Tunable Superomniphobic Surfaces Enabled by Atomic Layer Deposition. *ACS Nano*, **2017**, 11, 478-489	16.7	45
20	Influence of textural statistics on drag reduction by scalable, randomly rough superhydrophobic surfaces in turbulent flow. *Physics of Fluids*, **2019**, 31, 042107	4.4	39
19	Open-channel, water-in-oil emulsification in paper-based microfluidic devices. *Lab on A Chip*, **2017**, 17, 1436-1441	7.2	29
18	Design and applications of surfaces that control the accretion of matter. *Science*, **2021**, 373,	33.3	26
17	Wettability engendered templated self-assembly (WETS) for fabricating multiphasic particles. *ACS Applied Materials & Interfaces*, **2015**, 7, 4075-80	9.5	20
16	Design of surfaces for controlling hard and soft fouling. *Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences*, **2019**, 377, 20180266	3	18
15	Patterned Superomniphobic-Superomniphilic Surfaces: Templates for Site-Selective Self-Assembly. *Angewandte Chemie*, **2012**, 124, 10256-10260	3.6	14
14	Superoleophobic Surfaces. *ACS Symposium Series*, **2012**, 171-185	0.4	13
13	Superoleophobic Surfaces: Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis (Adv. Mater. 43/2012). *Advanced Materials*, **2012**, 24, 5837-5837	24	10
12	Transparent, Flexible, Superomniphobic Surfaces with Ultra-Low Contact Angle Hysteresis. *Angewandte Chemie*, **2013**, 125, 13245-13249	3.6	10
11	Rational Design of Transparent Nanowire Architectures with Tunable Geometries for Preventing Marine Fouling. *Advanced Materials Interfaces*, **2020**, 7, 2000672	4.6	10
10	Non-Fluorinated, Superhydrophobic Binder-Filler Coatings on Smooth Surfaces: Controlled Phase Separation of Particles to Enhance Mechanical Durability. *Langmuir*, **2021**, 37, 3104-3112	4	8
9	Wettability Engendered Templated Self-Assembly (WETS) for the Fabrication of Biocompatible, Polymer-Polyelectrolyte Janus Particles. *ACS Macro Letters*, **2019**, 8, 1491-1497	6.6	6

8	Lysis and direct detection of coliforms on printed paper-based microfluidic devices. *Lab on A Chip*, **2020**, 20, 4413-4419	7.2	5
7	Rapid and Robust Surface Treatment for Simultaneous Solid and Liquid Repellency. *ACS Applied Materials & Interfaces*, **2021**,	9.5	4
6	Inkjet-printed micro-calibration standards for ultraquantitative Raman spectral cytometry. *Analyst, The*, **2019**, 144, 3790-3799	5	3
5	Surface design strategies for mitigating ice and snow accretion. *Matter*, **2022**, 5, 1423-1454	12.7	3
4	Facilitating Large-Scale Snow Shedding from In-Field Solar Arrays using Icephobic Surfaces with Low-Interfacial Toughness. *Advanced Materials Technologies*,2101032	6.8	2
3	Novel Omniphobic Platform for Multicellular Spheroid Generation, Drug Screening, and On-Plate Analysis. *Analytical Chemistry*, **2021**, 93, 8054-8061	7.8	1
2	Innenr□ktitelbild: Transparent, Flexible, Superomniphobic Surfaces with Ultra-Low Contact Angle Hysteresis (Angew. Chem. 49/2013). *Angewandte Chemie*, **2013**, 125, 13343-13343	3.6	
1	Continuous Liquid-Liquid Extraction and in-Situ Membrane Separation of Miscible Liquid Mixtures. *Langmuir*, **2021**, 37, 13595-13601	4	