

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

52 papers	4,054 citations	26 h-index	53 g-index
53 ext. papers	4,552 ext. citations	8.3 avg, IF	5.69 L-index

#	Paper	IF	Citations
52	Hygro-responsive membranes for effective oil-water separation. <i>Nature Communications</i> , 2012 , 3, 1025	17.4	884
51	On-demand separation of oil-water mixtures. <i>Advanced Materials</i> , 2012 , 24, 3666-71	24	428
50	Superomniphobic surfaces for effective chemical shielding. <i>Journal of the American Chemical Society</i> , 2013 , 135, 578-81	16.4	388
49	Hierarchically structured superoleophobic surfaces with ultralow contact angle hysteresis. <i>Advanced Materials</i> , 2012 , 24, 5838-43	24	261
48	Electrical and Rheological Percolation in Polystyrene/MWCNT Nanocomposites. <i>Macromolecules</i> , 2007 , 40, 7400-7406	5.5	251
47	The design and applications of superomniphobic surfaces. <i>NPG Asia Materials</i> , 2014 , 6, e109-e109	10.3	241
46	Conductivity enhancement of carbon nanotube and nanofiber-based polymer nanocomposites by melt annealing. <i>Polymer</i> , 2008 , 49, 4846-4851	3.9	138
45	Superhydrophobic Coatings with Edible Materials. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 18664-18668	4.8	136
44	Superomniphobic surfaces: Design and durability. <i>MRS Bulletin</i> , 2013 , 38, 383-390	3.2	133
43	Durable gels with ultra-low adhesion to ice. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 18253-18258	13	120
42	Metamorphic Superomniphobic Surfaces. <i>Advanced Materials</i> , 2017 , 29, 1700295	24	88
41	Dropwise condensation on solid hydrophilic surfaces. <i>Science Advances</i> , 2020 , 6, eaax0746	14.3	68
40	Droplet Jumping: Effects of Droplet Size, Surface Structure, Pinning, and Liquid Properties. <i>ACS Nano</i> , 2019 , 13, 1309-1323	16.7	64
39	Coalescence-induced jumping of droplets on superomniphobic surfaces with macrotexture. <i>Science Advances</i> , 2018 , 4, eaau3488	14.3	62
38	Superoleophobic surfaces: design criteria and recent studies. <i>Surface Innovations</i> , 2013 , 1, 71-83	1.9	59
37	Trade-off in membrane distillation with monolithic omniphobic membranes. <i>Nature Communications</i> , 2019 , 10, 3220	17.4	56
36	Hemocompatibility of Superhemophobic Titania Surfaces. <i>Advanced Healthcare Materials</i> , 2017 , 6, 1600717	17.1	55

35	Free-Standing, Flexible, Superomniphobic Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 21962-7195	7.5	50
34	An experimental study on soft PDMS materials for aircraft icing mitigation. <i>Applied Surface Science</i> , 2018 , 447, 599-609	6.7	49
33	Antibacterial activity on superhydrophobic titania nanotube arrays. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018 , 166, 179-186	6	46
32	Fabrication of Nanostructured Omniphobic and Superomniphobic Surfaces with Inexpensive CO Laser Engraver. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 25656-25661	9.5	40
31	Micellar Morphology in Sulfonated Pentablock Copolymer Solutions. <i>Industrial & Engineering Chemistry Research</i> , 2010 , 49, 12093-12097	3.9	39
30	Tunable superomniphobic surfaces for sorting droplets by surface tension. <i>Lab on A Chip</i> , 2016 , 16, 3204-3212	7.2	34
29	Hemodynamic Performance and Thrombogenic Properties of a Superhydrophobic Bileaflet Mechanical Heart Valve. <i>Annals of Biomedical Engineering</i> , 2017 , 45, 452-463	4.7	32
28	Coalescence-Induced Self-Propulsion of Droplets on Superomniphobic Surfaces. <i>ACS Applied Materials & Interfaces</i> , 2017 , 9, 29328-29336	9.5	32
27	Quantitative characterization of the formation of an interpenetrating phase composite in polystyrene from the percolation of multiwalled carbon nanotubes. <i>Nanotechnology</i> , 2007 , 18, 505705	3.4	31
26	Amphiphilic colloidal surfactants based on electrohydrodynamic co-jetting. <i>ACS Applied Materials & Interfaces</i> , 2013 , 5, 11281-7	9.5	21
25	Metallic superhydrophobic surfaces via thermal sensitization. <i>Applied Physics Letters</i> , 2017 , 110, 251602	3.4	21
24	Superhemophobic titania nanotube array surfaces for blood contacting medical devices. <i>RSC Advances</i> , 2017 , 7, 35466-35476	3.7	20
23	Wettability engendered templated self-assembly (WETS) for fabricating multiphasic particles. <i>ACS Applied Materials & Interfaces</i> , 2015 , 7, 4075-80	9.5	20
22	Elucidating the Trade-off between Membrane Wetting Resistance and Water Vapor Flux in Membrane Distillation. <i>Environmental Science & Technology</i> , 2020 , 54, 10333-10341	10.3	18
21	Hemocompatibility of Super-Repellent surfaces: Current and Future. <i>Materials Horizons</i> , 2019 , 6, 1596-1614	11.4	15
20	Patterned Superomniphobic/Superomniphilic Surfaces: Templates for Site-Selective Self-Assembly. <i>Angewandte Chemie</i> , 2012 , 124, 10256-10260	3.6	14
19	Elucidating mechanisms of silica scaling in membrane distillation: effects of membrane surface wettability. <i>Environmental Science: Water Research and Technology</i> , 2019 , 5, 2004-2014	4.2	13
18	Superoleophobic Surfaces. <i>ACS Symposium Series</i> , 2012 , 171-185	0.4	13

17	Fabrication of Particle-Reinforced Polymers with Continuous Gradient Architectures Using Twin Screw Extrusion Process. <i>Journal of Composite Materials</i> , 2004 , 38, 1873-1893	2.7	12
16	Interaction of blood plasma proteins with superhemophobic titania nanotube surfaces. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , 2019 , 21, 102046	6	11
15	Superoleophobic Surfaces: Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis (Adv. Mater. 43/2012). <i>Advanced Materials</i> , 2012 , 24, 5837-5837	24	10
14	A Miniature Water Surface Jumping Robot. <i>IEEE Robotics and Automation Letters</i> , 2017 , 2, 1272-1279	4.2	9
13	Superomniphobic Papers for On-Paper pH Sensors. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900232	4.6	9
12	Superomniphobic Surfaces with Improved Mechanical Durability: Synergy of Hierarchical Texture and Mechanical Interlocking. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900538	4.6	9
11	Superhydrophobic Coatings for Improved Performance of Electrical Insulators. <i>Macromolecular Materials and Engineering</i> , 2018 , 303, 1800313	3.9	8
10	Response to "Correspondence Concerning Hemocompatibility of Superhemophobic Titania Surfaces". <i>Advanced Healthcare Materials</i> , 2017 , 6, 1700647	10.1	8
9	Influence of oxygen, hydrogen, helium, argon and vacuum on the surface behavior of molten InSb, other semiconductors, and metals on silica. <i>Journal of Crystal Growth</i> , 2006 , 290, 319-333	1.6	6
8	Characterization of Quasi-static Mechanical Properties of Polymer Nanocomposites Using a New Combinatorial Approach. <i>Journal of Composite Materials</i> , 2009 , 43, 2587-2598	2.7	5
7	Impact of superhydrophobicity on the fluid dynamics of a bileaflet mechanical heart valve. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2020 , 110, 103895	4.1	4
6	An Experimental Investigation on the Dynamic Impact of Water Droplets onto Soft Surfaces at High Weber Numbers 2018 ,		3
5	Combinatorial development of polymer nanocomposites using transient processing conditions in twin screw extrusion. <i>AIChE Journal</i> , 2008 , 54, 1895-1900	3.6	3
4	Design and application of a self-pumping microfluidic staggered herringbone mixer. <i>Microfluidics and Nanofluidics</i> , 2021 , 25, 1	2.8	3
3	Characterization of processing effects in HIPS-CNF composites using thermogravimetric analysis. <i>Polymer Engineering and Science</i> , 2008 , 48, 1120-1125	2.3	2
2	Droplet Evaporation Dynamics of Low Surface Tension Fluids Using the Steady Method. <i>Langmuir</i> , 2020 , 36, 13860-13871	4	1
1	Continuous Liquid-Liquid Extraction and in-Situ Membrane Separation of Miscible Liquid Mixtures. <i>Langmuir</i> , 2021 , 37, 13595-13601	4	