Arun K Kota

List of Publications by Year in Descending Order

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	Continuous Liquid-Liquid Extraction and in-Situ Membrane Separation of Miscible Liquid Mixtures. *Langmuir*, **2021**, 37, 13595-13601	4	
51	Design and application of a self-pumping microfluidic staggered herringbone mixer. *Microfluidics and Nanofluidics*, **2021**, 25, 1	2.8	3
50	Impact of superhydrophobicity on the fluid dynamics of a bileaflet mechanical heart valve. *Journal of the Mechanical Behavior of Biomedical Materials*, **2020**, 110, 103895	4.1	4
49	Dropwise condensation on solid hydrophilic surfaces. *Science Advances*, **2020**, 6, eaax0746	14.3	68
48	Droplet Evaporation Dynamics of Low Surface Tension Fluids Using the Steady Method. *Langmuir*, **2020**, 36, 13860-13871	4	1
47	Elucidating the Trade-off between Membrane Wetting Resistance and Water Vapor Flux in Membrane Distillation. *Environmental Science & Technology*, **2020**, 54, 10333-10341	10.3	18
46	Elucidating mechanisms of silica scaling in membrane distillation: effects of membrane surface wettability. *Environmental Science: Water Research and Technology*, **2019**, 5, 2004-2014	4.2	13
45	Superomniphobic Papers for On-Paper pH Sensors. *Advanced Materials Interfaces*, **2019**, 6, 1900232	4.6	9
44	Hemocompatibility of Super-Repellent surfaces: Current and Future. *Materials Horizons*, **2019**, 6, 1596-1610	14.4	15
43	Trade-off in membrane distillation with monolithic omniphobic membranes. *Nature Communications*, **2019**, 10, 3220	17.4	56
42	Superomniphobic Surfaces with Improved Mechanical Durability: Synergy of Hierarchical Texture and Mechanical Interlocking. *Advanced Materials Interfaces*, **2019**, 6, 1900538	4.6	9
41	Interaction of blood plasma proteins with superhemophobic titania nanotube surfaces. *Nanomedicine: Nanotechnology, Biology, and Medicine*, **2019**, 21, 102046	6	11
40	Droplet Jumping: Effects of Droplet Size, Surface Structure, Pinning, and Liquid Properties. *ACS Nano*, **2019**, 13, 1309-1323	16.7	64
39	An experimental study on soft PDMS materials for aircraft icing mitigation. *Applied Surface Science*, **2018**, 447, 599-609	6.7	49
38	An Experimental Investigation on the Dynamic Impact of Water Droplets onto Soft Surfaces at High Weber Numbers **2018**,		3
37	Antibacterial activity on superhydrophobic titania nanotube arrays. *Colloids and Surfaces B: Biointerfaces*, **2018**, 166, 179-186	6	46
36	Superhydrophobic Coatings for Improved Performance of Electrical Insulators. *Macromolecular Materials and Engineering*, **2018**, 303, 1800313	3.9	8

35	Coalescence-induced jumping of droplets on superomniphobic surfaces with macrotexture. *Science Advances*, **2018**, 4, eaau3488	14.3	62
34	Hemodynamic Performance and Thrombogenic Properties of a Superhydrophobic Bileaflet Mechanical Heart Valve. *Annals of Biomedical Engineering*, **2017**, 45, 452-463	4.7	32
33	A Miniature Water Surface Jumping Robot. *IEEE Robotics and Automation Letters*, **2017**, 2, 1272-1279	4.2	9
32	Metamorphic Superomniphobic Surfaces. *Advanced Materials*, **2017**, 29, 1700295	24	88
31	Hemocompatibility of Superhemophobic Titania Surfaces. *Advanced Healthcare Materials*, **2017**, 6, 1600717	10.1	55
30	Superhemophobic titania nanotube array surfaces for blood contacting medical devices. *RSC Advances*, **2017**, 7, 35466-35476	3.7	20
29	Fabrication of Nanostructured Omniphobic and Superomniphobic Surfaces with Inexpensive CO Laser Engraver. *ACS Applied Materials & Interfaces*, **2017**, 9, 25656-25661	9.5	40
28	Coalescence-Induced Self-Propulsion of Droplets on Superomniphobic Surfaces. *ACS Applied Materials & Interfaces*, **2017**, 9, 29328-29336	9.5	32
27	Response to "Correspondence Concerning Hemocompatibility of Superhemophobic Titania Surfaces". *Advanced Healthcare Materials*, **2017**, 6, 1700647	10.1	8
26	Metallic superhydrophobic surfaces via thermal sensitization. *Applied Physics Letters*, **2017**, 110, 251602	3.4	21
25	Free-Standing, Flexible, Superomniphobic Films. *ACS Applied Materials & Interfaces*, **2016**, 8, 21962-7	9.5	50
24	Durable gels with ultra-low adhesion to ice. *Journal of Materials Chemistry A*, **2016**, 4, 18253-18258	13	120
23	Superhydrophobic Coatings with Edible Materials. *ACS Applied Materials & Interfaces*, **2016**, 8, 18664-8	9.5	136
22	Tunable superomniphobic surfaces for sorting droplets by surface tension. *Lab on A Chip*, **2016**, 16, 3204-9	7.2	34
21	Wettability engendered templated self-assembly (WETS) for fabricating multiphasic particles. *ACS Applied Materials & Interfaces*, **2015**, 7, 4075-80	9.5	20
20	The design and applications of superomniphobic surfaces. *NPG Asia Materials*, **2014**, 6, e109-e109	10.3	241
19	Amphiphilic colloidal surfactants based on electrohydrodynamic co-jetting. *ACS Applied Materials & Interfaces*, **2013**, 5, 11281-7	9.5	21
18	Superomniphobic surfaces for effective chemical shielding. *Journal of the American Chemical Society*, **2013**, 135, 578-81	16.4	388

17	Superoleophobic surfaces: design criteria and recent studies. *Surface Innovations*, **2013**, 1, 71-83	1.9	59
16	Superomniphobic surfaces: Design and durability. *MRS Bulletin*, **2013**, 38, 383-390	3.2	133
15	Superoleophobic Surfaces: Hierarchically Structured Superoleophobic Surfaces with Ultralow Contact Angle Hysteresis (Adv. Mater. 43/2012). *Advanced Materials*, **2012**, 24, 5837-5837	24	10
14	Hierarchically structured superoleophobic surfaces with ultralow contact angle hysteresis. *Advanced Materials*, **2012**, 24, 5838-43	24	261
13	Patterned Superomniphobic-Superomniphilic Surfaces: Templates for Site-Selective Self-Assembly. *Angewandte Chemie*, **2012**, 124, 10256-10260	3.6	14
12	Superoleophobic Surfaces. *ACS Symposium Series*, **2012**, 171-185	0.4	13
11	Hygro-responsive membranes for effective oil-water separation. *Nature Communications*, **2012**, 3, 1025	17.4	884
10	On-demand separation of oil-water mixtures. *Advanced Materials*, **2012**, 24, 3666-71	24	428
9	Micellar Morphology in Sulfonated Pentablock Copolymer Solutions. *Industrial & Engineering Chemistry Research*, **2010**, 49, 12093-12097	3.9	39
8	Characterization of Quasi-static Mechanical Properties of Polymer Nanocomposites Using a New Combinatorial Approach. *Journal of Composite Materials*, **2009**, 43, 2587-2598	2.7	5
7	Conductivity enhancement of carbon nanotube and nanofiber-based polymer nanocomposites by melt annealing. *Polymer*, **2008**, 49, 4846-4851	3.9	138
6	Characterization of processing effects in HIPS-CNF composites using thermogravimetric analysis. *Polymer Engineering and Science*, **2008**, 48, 1120-1125	2.3	2
5	Combinatorial development of polymer nanocomposites using transient processing conditions in twin screw extrusion. *AICHE Journal*, **2008**, 54, 1895-1900	3.6	3
4	Quantitative characterization of the formation of an interpenetrating phase composite in polystyrene from the percolation of multiwalled carbon nanotubes. *Nanotechnology*, **2007**, 18, 505705	3.4	31
3	Electrical and Rheological Percolation in Polystyrene/MWCNT Nanocomposites. *Macromolecules*, **2007**, 40, 7400-7406	5.5	251
2	Influence of oxygen, hydrogen, helium, argon and vacuum on the surface behavior of molten InSb, other semiconductors, and metals on silica. *Journal of Crystal Growth*, **2006**, 290, 319-333	1.6	6
1	Fabrication of Particle-Reinforced Polymers with Continuous Gradient Architectures Using Twin Screw Extrusion Process. *Journal of Composite Materials*, **2004**, 38, 1873-1893	2.7	12