Malancha Gupta

List of Publications by Year
in descending order

69	3,446	201385 27	138251 58
papers	citations	h-index	g-index

71	71	71	3905
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superhydrophobic Fabrics Produced by Electrospinning and Chemical Vapor Deposition. Macromolecules, 2005, 38, 9742-9748.	2.2	690
2	FLASH: A rapid method for prototyping paper-based microfluidic devices. Lab on A Chip, 2008, 8, 2146.	3.1	616
3	Measuring Densities of Solids and Liquids Using Magnetic Levitation: Fundamentals. Journal of the American Chemical Society, 2009, 131, 10049-10058.	6.6	181
4	Initiated Chemical Vapor Deposition of Poly(1H,1H,2H,2H-perfluorodecyl Acrylate) Thin Films. Langmuir, 2006, 22, 10047-10052.	1.6	144
5	Egg beater as centrifuge: isolating human blood plasma from whole blood in resource-poor settings. Lab on A Chip, 2008, 8, 2032.	3.1	126
6	Two-Phase Microfluidic Droplet Flows of Ionic Liquids for the Synthesis of Gold and Silver Nanoparticles. ACS Applied Materials & Interfaces, 2012, 4, 3077-3083.	4.0	121
7	Initiated Chemical Vapor Deposition (iCVD) of Conformal Polymeric Nanocoatings for the Surface Modification of High-Aspect-Ratio Pores. Chemistry of Materials, 2008, 20, 1646-1651.	3.2	101
8	Flow invariant droplet formation for stable parallel microreactors. Nature Communications, 2016, 7, 10780.	5.8	90
9	Hybrid microcavity humidity sensor. Applied Physics Letters, 2013, 102, .	1.5	87
10	Three-dimensional patterning of porous materials using vapor phase polymerization. Soft Matter, 2011, 7, 2428.	1.2	84
11	Large-scale initiated chemical vapor deposition of poly(glycidyl methacrylate) thin films. Thin Solid Films, 2006, 515, 1579-1584.	0.8	82
12	Initiated chemical vapor deposition (iCVD) of polymeric nanocoatings. Surface and Coatings Technology, 2007, 201, 9400-9405.	2.2	69
13	Vapor Phase Deposition of Functional Polymers onto Paper-Based Microfluidic Devices for Advanced Unit Operations. Analytical Chemistry, 2012, 84, 10129-10135.	3.2	59
14	Patterned Fluoropolymer Barriers for Containment of Organic Solvents within Paper-Based Microfluidic Devices. ACS Applied Materials & Interfaces, 2013, 5, 12701-12707.	4.0	56
15	Hydrophobicity versus Pore Size: Polymer Coatings to Improve Membrane Wetting Resistance for Membrane Distillation. ACS Applied Polymer Materials, 2020, 2, 1256-1267.	2.0	55
16	Encapsulation of Ionic Liquids within Polymer Shells via Vapor Phase Deposition. Langmuir, 2012, 28, 10276-10280.	1.6	49
17	Heterogeneous Films of Ionotropic Hydrogels Fabricated from Delivery Templates of Patterned Paper. ACS Applied Materials & Interfaces, 2009, 1, 1807-1812.	4.0	43
18	Patterning precipitates of reactions in paper. Journal of Materials Chemistry, 2010, 20, 5117.	6.7	41

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19	Effect of Surface Tension, Viscosity, and Process Conditions on Polymer Morphology Deposited at the Liquidâ€“Vapor Interface. Langmuir, 2013, 29, 11640-11645.	1.6	36
20	Shaped Films of Ionotropic Hydrogels Fabricated Using Templates of Patterned Paper. Advanced Materials, 2009, 21, 445-450.	11.1	34
21	Vapor deposition of cross-linked fluoropolymer barrier coatings onto pre-assembled microfluidic devices. Lab on A Chip, 2011, 11, 3049.	3.1	34
22	Surface functionalization of 3D-printed plastics via initiated chemical vapor deposition. Beilstein Journal of Nanotechnology, 2017, 8, 1629-1636.	1.5	32
23	Roll-to-Roll Surface Modification of Cellulose Paper via Initiated Chemical Vapor Deposition. Industrial & Engineering Chemistry Research, 2018, 57, 11675-11680.	1.8	31
24	Fluoropolymer surface coatings to control droplets in microfluidic devices. Lab on A Chip, 2014, 14, 1834-1841.	3.1	30
25	Ultrathin Free-Standing Polymer Films Deposited onto Patterned Ionic Liquids and Silicone Oil. Macromolecules, 2012, 45, 165-170.	2.2	29
26	Directed Deposition of Functional Polymers onto Porous Substrates Using Metal Salt Inhibitors. Langmuir, 2011, 27, 10634-10641.	1.6	28
27	Patterned paper as a template for the delivery of reactants in the fabrication of planar materials. Soft Matter, 2010, 6, 4303.	1.2	27
28	Self-Assembly of Pillars Modified with Vapor Deposited Polymer Coatings. ACS Applied Materials & Interfaces, 2011, 3, 4201-4205.	4.0	27
29	Simultaneous Polymerization and Solid Monomer Deposition for the Fabrication of Polymer Membranes with Dual-Scale Porosity. Macromolecules, 2013, 46, 2976-2983.	2.2	27
30	Microstructured Films Formed on Liquid Substrates via Initiated Chemical Vapor Deposition of Cross-Linked Polymers. Langmuir, 2015, 31, 7999-8005.	1.6	27
31	Initiated Chemical Vapor Deposition of Poly(furfuryl methacrylate). Macromolecular Rapid Communications, 2007, 28, 2205-2209.	2.0	26
32	Formation of Polymerâ€“Ionic Liquid Gels Using Vapor Phase Precursors. Macromolecules, 2013, 46, 6852-6857.	2.2	23
33	Surface modification of high aspect ratio structures with fluoropolymer coatings using chemical vapor deposition. Thin Solid Films, 2009, 517, 3547-3550.	0.8	19
34	Solventless Fabrication of Porous-on-Porous Materials. ACS Applied Materials & Interfaces, 2013, 5, 9714-9718.	4.0	18
35	Systematic study of the growth and morphology of vapor deposited porous polymer membranes. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2014, 32, .	0.9	18
36	Giant Lipid Vesicle Formation Using Vapor-Deposited Charged Porous Polymers. Langmuir, 2018, 34, 9025-9035.	1.6	17

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37	Synthesis of Polymer Nanoparticles via Vapor Phase Deposition onto Liquid Substrates. Macromolecular Rapid Communications, 2014, 35, 2000-2004.	2.0	15
38	Vapor Deposition of Functional Porous Polymer Membranes. ACS Applied Polymer Materials, 2020, 2, 98-104.	2.0	13
39	Responsive Polymer Welds via Solution Casting for Stabilized Self-Assembly. ACS Applied Materials & Interfaces, 2012, 4, 6911-6916.	4.0	12
40	Allâ€Dry Fabrication of Poly(methacrylic acid)â€Based Membranes with Controlled Dissolution Behavior. Macromolecular Materials and Engineering, 2015, 300, 1079-1084.	1.7	12
41	Vapor Phase Fabrication of Hydrophilic and Hydrophobic Asymmetric Polymer Membranes. Macromolecular Materials and Engineering, 2016, 301, 1037-1043.	1.7	12
42	Two-Stage Growth of Polymer Nanoparticles at the Liquidâ€“Vapor Interface by Vapor-Phase Polymerization. Langmuir, 2016, 32, 11014-11020.	1.6	12
43	Sequential deposition of patterned porous polymers using poly(dimethylsiloxane) masks. Polymer, 2017, 126, 463-469.	1.8	12
44	Effects of surface tension and viscosity on gold and silver sputtered onto liquid substrates. Applied Physics Letters, 2018, 112, .	1.5	12
45	Interactions between polymers and liquids during initiated chemical vapor deposition onto liquid substrates. Molecular Systems Design and Engineering, 2020, 5, 15-21.	1.7	12
46	Formation of Porous Polymer Coatings on Complex Substrates Using Vapor Phase Precursors. Macromolecular Materials and Engineering, 2016, 301, 371-376.	1.7	11
47	Fabrication of Hydrogen-Selective Silica Membranes via Pyrolysis of Vapor Deposited Polymer Films. Industrial & Engineering Chemistry Research, 2019, 58, 15190-15198.	1.8	11
48	Engineered hydrophobicity of discrete microfluidic elements for double emulsion generation. Microfluidics and Nanofluidics, 2016, 20, 1.	1.0	10
49	Processâ€“Structureâ€“Property Relationships for Porous Membranes Formed by Polymerization of Solid Monomer by a Vapor-Phase Initiator. Macromolecules, 2018, 51, 10297-10303.	2.2	10
50	Effect of transition metal salts on the initiated chemical vapor deposition of polymer thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2015, 33, .	0.9	9
51	Fabricating Polymer Canopies onto Structured Surfaces Using Liquid Scaffolds. ACS Applied Materials & Interfaces, 2015, 7, 23056-23061.	4.0	8
52	Fabrication of ionic liquid gel beads via sequential deposition. Thin Solid Films, 2017, 635, 17-22.	0.8	8
53	Solventâ€Free Synthesis of Selectively Wetting Multilayer and Janus Membranes. Advanced Materials Interfaces, 2020, 7, 2001103.	1.9	8
54	Formation of Heterogeneous Polymer Films via Simultaneous or Sequential Depositions of Soluble and Insoluble Monomers onto Ionic Liquids. Langmuir, 2013, 29, 10448-10454.	1.6	7

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55	Synthesis of Inorganic/Organic Hybrid Materials via Vapor Deposition onto Liquid Surfaces. ACS Applied Nano Materials, 2018, 1, 6575-6579.	2.4	7
56	Robust Vapor-Deposited Antifouling Fluoropolymer Coatings for Stainless Steel Polymerization Reactor Components. Industrial & Engineering Chemistry Research, 2020, 59, 15264-15270.	1.8	7
57	Copolymerization of 1-Ethyl-3-vinylimidazolium Bis(trifluoromethylsulfonyl)imide via Initiated Chemical Vapor Deposition. Macromolecules, 2014, 47, 6657-6663.	2.2	6
58	Solventless grafting of functional polymer coatings onto Parylene C. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2016, 34, .	0.9	6
59	Scratch-Resistant Porous Polymer Coatings with Enhanced Adhesion to Planar and Curved Substrates. ACS Applied Polymer Materials, 2020, 2, 3339-3345.	2.0	6
60	Synthesis of Functional Particles by Condensation and Polymerization of Monomer Droplets in Silicone Oils. Langmuir, 2017, 33, 7701-7707.	1.6	5
61	Modular microfluidics for double emulsion formation. Methods in Cell Biology, 2018, 148, 161-176.	0.5	5
62	Synthesis of pH-Responsive Polymer Sponge Coatings and Freestanding Films via Vapor-Phase Deposition. ACS Applied Polymer Materials, 2021, 3, 6366-6374.	2.0	5
63	Initiated Chemical Vapor Deposition of Polymers Onto Liquid Substrates. Nanoscience and Nanotechnology Letters, 2015, 7, 39-44.	0.4	4
64	Downstream Monomer Capture and Polymerization during Vapor Phase Fabrication of Porous Membranes. Industrial & Engineering Chemistry Research, 2019, 58, 9908-9914.	1.8	4
65	Scale-up modeling for manufacturing nanoparticles using microfluidic T-junction. IISE Transactions, 2018, 50, 892-899.	1.6	3
66	Oblique angle initiated chemical vapor deposition for patterning film growth. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 2020, 38, .	0.9	3
67	Effects of Standing Waves on the Growth and Stability of Vapor Deposited Polymer Films. ACS Applied Polymer Materials, 2019, 1, 1930-1934.	2.0	2
68	Vapor Deposition of Silicon-Containing Microstructured Polymer Films onto Silicone Oil Substrates. Langmuir, 2021, 37, 13859-13866.	1.6	1
69	Vapor-Deposited Porous Polymers for the Fabrication of Giant Lipid Vesicles. Biophysical Journal, 2018, 114, 542a-543a.	0.2	0