Gene Whyman

List of Publications by Year
in descending order

48 papers	3,246 citations	218677 26 h-index	223800 46 g-index
51 all docs	51 docs citations	51 times ranked	3130 citing authors

#	Article	IF	Citations
1	Simultaneous determination of thickness and refractive index using Cauchy or Sellmeier formulas by the example of surface plasmon resonance study on ultrathin polysulfone film. International Journal of Polymer Analysis and Characterization, 2021, 26, 661-667.	1.9	2
2	Stabilization of cubic phase in scandiumâ€doped zirconia nanocrystals synthesized with solâ€gel method. Journal of the American Ceramic Society, 2019, 102, 3236-3243.	3.8	10
3	Dielectric properties of UV-irradiated ultrathin polysulfone films revealed by surface plasmon resonance method. International Journal of Polymer Analysis and Characterization, 2018, 23, 396-402.	1.9	2
4	Influence of UV irradiation in nitrogen and air environment on dielectric properties of ultrathin polysulfone films revealed using surface plasmon resonance method. International Journal of Polymer Analysis and Characterization, 2018, 23, 669-674.	1.9	0
5	Self-propelling rotator driven by soluto-capillary marangoni flows. Applied Physics Letters, 2017, 110, 131604.	3.3	19
6	Plasma treatment switches the regime of wetting and floating of pepper seeds. Colloids and Surfaces B: Biointerfaces, 2017, 157, 417-423.	5.0	24
7	Relaxation spectra of polymers and phenomena of electrical and hydrophobic recovery: Interplay between bulk and surface properties of polymers. Journal of Polymer Science, Part B: Polymer Physics, 2017, 55, 198-205.	2.1	13
8	Under-Liquid Self-Assembly of Submerged Buoyant Polymer Particles. Langmuir, 2016, 32, 5714-5720.	3.5	3
9	Superoleophobic Surfaces Obtained via Hierarchical Metallic Meshes. Langmuir, 2016, 32, 4134-4140.	3.5	31
10	Elastic Properties of Liquid Surfaces Coated with Colloidal Particles. Advances in Condensed Matter Physics, 2015, 2015, 1-6.	1.1	12
11	On universality of scaling law describing roughness of triple line. European Physical Journal E, 2015, 38, 2.	1.6	8
12	Interaction of cold radiofrequency plasma with seeds of beans (Phaseolus vulgaris). Journal of Experimental Botany, 2015, 66, 4013-4021.	4.8	130
13	Interpretation of elasticity of liquid marbles. Journal of Colloid and Interface Science, 2015, 457, 148-151.	9.4	20
14	Self-Propulsion of Liquid Marbles: Leidenfrost-like Levitation Driven by Marangoni Flow. Journal of Physical Chemistry C, 2015, 119, 9910-9915.	3.1	127
15	Physical mechanisms of interaction of cold plasma with polymer surfaces. Journal of Colloid and Interface Science, 2015, 448, 175-179.	9.4	52
16	Controlling drop bouncing using surfaces with gradient features. Applied Physics Letters, 2015, 107, .	3.3	93
17	On the Role of the Line Tension in the Stability of Cassie Wetting. Langmuir, 2013, 29, 5515-5519.	3.5	32
18	Jetting liquid marbles: study of the Taylor instability in immersed marbles. Colloid and Polymer Science, 2013, 291, 1535-1539.	2.1	8

#	Article	IF	Citations
19	Revisiting the surface tension of liquid marbles: Measurement of the effective surface tension of liquid marbles with the pendant marble method. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2013, 425, 15-23.	4.7	62
20	Towards Understanding Wetting Transitions on Biomimetic Surfaces: Scaling Arguments and Physical Mechanisms. Green Energy and Technology, 2012, , 127-147.	0.6	0
21	Wetting Transitions on Post-Built and Porous Reliefs. Journal of Adhesion Science and Technology, 2012, 26, 1169-1180.	2.6	7
22	Superhydrophobicity of Lotus Leaves versus Birds Wings: Different Physical Mechanisms Leading to Similar Phenomena. Langmuir, 2012, 28, 14992-14997.	3.5	58
23	How to Make the Cassie Wetting State Stable?. Langmuir, 2011, 27, 8171-8176.	3.5	210
24	Electrically Deformable Liquid Marbles. Journal of Adhesion Science and Technology, 2011, 25, 1371-1377.	2.6	38
25	Interfacial and conductive properties of liquid marbles coated with carbon black. Powder Technology, 2010, 203, 529-533.	4.2	82
26	A reliable method of manufacturing metallic hierarchical superhydrophobic surfaces. Applied Physics Letters, 2009, 94, .	3.3	19
27	Electrostatically driven droplets deposited on superhydrophobic surfaces. Applied Physics Letters, 2009, 95, .	3.3	16
28	Robust method of manufacturing rubber wasteâ€based water repellent surfaces. Polymers for Advanced Technologies, 2009, 20, 650-653.	3.2	6
29	Oblate spheroid model for calculation of the shape and contact angles of heavy droplets. Journal of Colloid and Interface Science, 2009, 331, 174-177.	9.4	51
30	Surface tension of liquid marbles. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 351, 78-82.	4.7	114
31	Comment on Water Wetting Transition Parameters of Perfluorinated Substrates with Periodically Distributed Flat-Top Microscale Obstacles. Langmuir, 2009, 25, 13694-13695.	3.5	13
32	Shape, Vibrations, and Effective Surface Tension of Water Marbles. Langmuir, 2009, 25, 1893-1896.	3.5	100
33	Mesoscopic Patterning in Evaporated Polymer Solutions: Poly(ethylene glycol) and Roomâ€Temperatureâ€Vulcanized Polyorganosilanes/â€siloxanes Promote Formation of Honeycomb Structures. Macromolecular Chemistry and Physics, 2008, 209, 567-576.	2.2	40
34	The rigorous derivation of Young, Cassieâ€"Baxter and Wenzel equations and the analysis of the contact angle hysteresis phenomenon. Chemical Physics Letters, 2008, 450, 355-359.	2.6	466
35	Variational approach to wetting problems: Calculation of a shape of sessile liquid drop deposited on a solid substrate in external field. Chemical Physics Letters, 2008, 463, 103-105.	2.6	23
36	Superhydrophobic Metallic Surfaces and Their Wetting Properties. Journal of Adhesion Science and Technology, 2008, 22, 379-385.	2.6	35

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37	Characterization of rough surfaces with vibrated drops. Physical Chemistry Chemical Physics, 2008, 10, 4056.	2.8	120
38	Contact Angle Hysteresis on Polymer Substrates Established with Various Experimental Techniques, Its Interpretation, and Quantitative Characterization. Langmuir, 2008, 24, 4020-4025.	3.5	101
39	Resonance Cassieâ˘Wenzel Wetting Transition for Horizontally Vibrated Drops Deposited on a Rough Surface. Langmuir, 2007, 23, 12217-12221.	3.5	115
40	Cassieâ˘Wenzel Wetting Transition in Vibrating Drops Deposited on Rough Surfaces:â€‰ Is the Dynamic Cassieâ˘Wenzel Wetting Transition a 2D or 1D Affair?. Langmuir, 2007, 23, 6501-6503.	3.5	258
41	Environmental Scanning Electron Microscopy Study of the Fine Structure of the Triple Line and Cassieâ˘Wenzel Wetting Transition for Sessile Drops Deposited on Rough Polymer Substrates. Langmuir, 2007, 23, 4378-4382.	3.5	70
42	Vibration-induced Cassie-Wenzel wetting transition on rough surfaces. Applied Physics Letters, 2007, 90, 201917.	3.3	148
43	Why do pigeon feathers repel water? Hydrophobicity of pennae, Cassieâ€“Baxter wetting hypothesis and Cassieâ€“Wenzel capillarity-induced wetting transition. Journal of Colloid and Interface Science, 2007, 311, 212-216.	9.4	196
44	Template-assisted crystallization and colloidal self-assembly with use of the polymer micrometrically scaled honeycomb template. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 290, 273-279.	4.7	9
45	Template-assisted growth of chemical gardens: Formation of dendrite structures. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2006, 289, 245-249.	4.7	9
46	Micrometrically scaled textured metallic hydrophobic interfaces validate the Cassieâ€“Baxter wetting hypothesis. Journal of Colloid and Interface Science, 2006, 302, 308-311.	9.4	74
47	Wetting Properties of the Multiscaled Nanostructured Polymer and Metallic Superhydrophobic Surfaces. Langmuir, 2006, 22, 9982-9985.	3.5	219
48	Impact of Conditions of Water Supply on the Germination of Tomato and Pepper Seeds. , 0, , .		0