

# Yelena Bormashenko

## List of Publications by Year in descending order

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54  
papers

2,908  
citations

172207

29  
h-index

161609

54  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2584  
citing authors

#	ARTICLE	IF	CITATIONS
1	Cold Radiofrequency Plasma Treatment Modifies Wettability and Germination Speed of Plant Seeds. <i>Scientific Reports</i> , 2012, 2, 741.	1.6	264
2	Wetting Properties of the Multiscaled Nanostructured Polymer and Metallic Superhydrophobic Surfaces. <i>Langmuir</i> , 2006, 22, 9982-9985.	1.6	219
3	Why do pigeon feathers repel water? Hydrophobicity of penna, Cassie-Wenzel wetting hypothesis and Cassie-Wenzel capillarity-induced wetting transition. <i>Journal of Colloid and Interface Science</i> , 2007, 311, 212-216.	5.0	196
4	New Investigations on Ferrofluidics: Ferrofluidic Marbles and Magnetic-Field-Driven Drops on Superhydrophobic Surfaces. <i>Langmuir</i> , 2008, 24, 12119-12122.	1.6	187
5	Vibration-induced Cassie-Wenzel wetting transition on rough surfaces. <i>Applied Physics Letters</i> , 2007, 90, 201917.	1.5	148
6	Interaction of cold radiofrequency plasma with seeds of beans ( <i>Phaseolus vulgaris</i> ). <i>Journal of Experimental Botany</i> , 2015, 66, 4013-4021.	2.4	130
7	Self-Propulsion of Liquid Marbles: Leidenfrost-like Levitation Driven by Marangoni Flow. <i>Journal of Physical Chemistry C</i> , 2015, 119, 9910-9915.	1.5	127
8	Janus Droplets: Liquid Marbles Coated with Dielectric/Semiconductor Particles. <i>Langmuir</i> , 2011, 27, 7-10.	1.6	107
9	On the Mechanism of Floating and Sliding of Liquid Marbles. <i>ChemPhysChem</i> , 2009, 10, 654-656.	1.0	102
10	Contact Angle Hysteresis on Polymer Substrates Established with Various Experimental Techniques, Its Interpretation, and Quantitative Characterization. <i>Langmuir</i> , 2008, 24, 4020-4025.	1.6	101
11	Shape, Vibrations, and Effective Surface Tension of Water Marbles. <i>Langmuir</i> , 2009, 25, 1893-1896.	1.6	100
12	Micrometrically scaled textured metallic hydrophobic interfaces validate the Cassie-Wenzel wetting hypothesis. <i>Journal of Colloid and Interface Science</i> , 2006, 302, 308-311.	5.0	74
13	Environmental Scanning Electron Microscopy Study of the Fine Structure of the Triple Line and Cassie-Wenzel Wetting Transition for Sessile Drops Deposited on Rough Polymer Substrates. <i>Langmuir</i> , 2007, 23, 4378-4382.	1.6	70
14	Water rolling and floating upon water: Marbles supported by a water/marble interface. <i>Journal of Colloid and Interface Science</i> , 2009, 333, 419-421.	5.0	70
15	Self-assembly in evaporated polymer solutions: Influence of the solution concentration. <i>Journal of Colloid and Interface Science</i> , 2006, 297, 534-540.	5.0	56
16	Mesoscopic Patterning in Thin Polymer Films Formed under the Fast Dip-Coating Process. <i>Macromolecular Materials and Engineering</i> , 2005, 290, 114-121.	1.7	55
17	On the Nature of the Friction between Nonstick Droplets and Solid Substrates. <i>Langmuir</i> , 2010, 26, 12479-12482.	1.6	54
18	Robust technique allowing manufacturing superoleophobic surfaces. <i>Applied Surface Science</i> , 2013, 270, 98-103.	3.1	53

#	ARTICLE	IF	CITATIONS
19	Mesoscopic Patterning in Evaporated Polymer Solutions: A New Experimental Data and Physical Mechanisms. <i>Langmuir</i> , 2005, 21, 9604-9609.	1.6	51
20	Mesoscopic and submicroscopic patterning in thin polymer films: Impact of the solvent. <i>Materials Letters</i> , 2005, 59, 2461-2464.	1.3	47
21	Elastic properties of liquid marbles. <i>Colloid and Polymer Science</i> , 2015, 293, 2157-2164.	1.0	47
22	Non-Stick Droplet Surgery with a Superhydrophobic Scalpel. <i>Langmuir</i> , 2011, 27, 3266-3270.	1.6	44
23	Self-assembled honeycomb polycarbonate films deposited on polymer piezoelectric substrates and their applications. <i>Polymers for Advanced Technologies</i> , 2005, 16, 299-304.	1.6	41
24	Honeycomb structures obtained with breath figures self-assembly allow water/oil separation. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2012, 415, 394-398.	2.3	41
25	Mesoscopic Patterning in Evaporated Polymer Solutions: Poly(ethylene glycol) and Room-temperature Vulcanized Polyorganosilanes/siloxanes Promote Formation of Honeycomb Structures. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 567-576.	1.1	40
26	On the mechanism of patterning in rapidly evaporated polymer solutions: Is temperature-gradient-driven Marangoni instability responsible for the large-scale patterning?. <i>Journal of Colloid and Interface Science</i> , 2010, 343, 602-607.	5.0	36
27	Superhydrophobic Metallic Surfaces and Their Wetting Properties. <i>Journal of Adhesion Science and Technology</i> , 2008, 22, 379-385.	1.4	35
28	Low voltage reversible electrowetting exploiting lubricated polymer honeycomb substrates. <i>Applied Physics Letters</i> , 2014, 104, .	1.5	34
29	Superoleophobic Surfaces Obtained via Hierarchical Metallic Meshes. <i>Langmuir</i> , 2016, 32, 4134-4140.	1.6	31
30	Free-standing, Thermostable, Micrometer-scale Honeycomb Polymer Films and their Properties. <i>Macromolecular Materials and Engineering</i> , 2008, 293, 872-877.	1.7	26
31	Robust Technique Allowing the Manufacture of Superoleophobic (Omniphobic) Metallic Surfaces. <i>Advanced Engineering Materials</i> , 2014, 16, 1127-1132.	1.6	26
32	Formation of Films on Water Droplets Floating on a Polymer Solution Surface. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 702-709.	1.1	25
33	Self-Propulsion of Water-Supported Liquid Marbles Filled with Sulfuric Acid. <i>Journal of Physical Chemistry B</i> , 2018, 122, 7936-7942.	1.2	25
34	Plasma treatment switches the regime of wetting and floating of pepper seeds. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017, 157, 417-423.	2.5	24
35	Progress in low voltage reversible electrowetting with lubricated polymer honeycomb substrates. <i>RSC Advances</i> , 2015, 5, 32491-32496.	1.7	23
36	Droplet behavior on flat and textured surfaces: Co-occurrence of Deegan outward flow with Marangoni solute instability. <i>Journal of Colloid and Interface Science</i> , 2007, 306, 128-132.	5.0	22

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37	Cold plasma hydrophilization of soy protein isolate and milk protein concentrate enables manufacturing of surfactant-free water suspensions. Part I: Hydrophilization of food powders using cold plasma. <i>Innovative Food Science and Emerging Technologies</i> , 2021, 72, 102759.	2.7	21
38	Superposition of Translational and Rotational Motions under Self-Propulsion of Liquid Marbles Filled with Aqueous Solutions of Camphor. <i>Langmuir</i> , 2017, 33, 13234-13241.	1.6	18
39	Toward an Understanding of Magnetic Displacement of Floating Diamagnetic Bodies, I: Experimental Findings. <i>Langmuir</i> , 2018, 34, 6388-6395.	1.6	18
40	Patterning in rapidly evaporated polymer solutions: Formation of annular structures under evaporation of the poor solvent. <i>Journal of Colloid and Interface Science</i> , 2006, 300, 293-297.	5.0	16
41	Magnetically inspired deformation of the liquid/vapor interface drives soap bubbles. <i>Surface Innovations</i> , 2018, 6, 231-236.	1.4	14
42	Camphor-Engine-Driven Micro-Boat Guides Evolution of Chemical Gardens. <i>Scientific Reports</i> , 2017, 7, 3930.	1.6	12
43	Template-assisted crystallization and colloidal self-assembly with use of the polymer micrometrically scaled honeycomb template. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 290, 273-279.	2.3	9
44	Template-assisted growth of chemical gardens: Formation of dendrite structures. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2006, 289, 245-249.	2.3	9
45	Effects of Atmospheric Plasma Corona Discharges on Soil Bacteria Viability. <i>Microorganisms</i> , 2020, 8, 704.	1.6	9
46	Formation of Hierarchical Porous Films with Breath-Figures Self-Assembly Performed on Oil-Lubricated Substrates. <i>Materials</i> , 2019, 12, 3051.	1.3	8
47	Bioinspired oxygen selective membrane for Zn-air batteries. <i>Journal of Materials Science</i> , 2021, 56, 9382-9394.	1.7	8
48	Self-assembled patterns obtained with evaporated polymer solutions and pre-stretched polymer substrates. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2007, 303, 253-256.	2.3	7
49	Wetting of Composite Surfaces: When and Why Is the Area Far from The Triple Line Important?. <i>Journal of Physical Chemistry C</i> , 0, , 130911133825002.	1.5	7
50	Investigation of the Impact of Cold Plasma Treatment on the Chemical Composition and Wettability of Medical Grade Polyvinylchloride. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 300.	1.3	6
51	Submerged (Under-Liquid) Floating of Light Objects. <i>Langmuir</i> , 2013, 29, 10700-10704.	1.6	5
52	On the role of the Plateau borders in the pattern formation occurring in thin evaporated polymer layers. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2008, 312, 245-248.	2.3	3
53	How to grow a movable mini-garden in a droplet: Growing chemical gardens in a water and aqueous ethanol solutions droplets deposited on a superhydrophobic surface. <i>Colloids and Interface Science Communications</i> , 2015, 7, 12-15.	2.0	3
54	Under-Liquid Self-Assembly of Submerged Buoyant Polymer Particles. <i>Langmuir</i> , 2016, 32, 5714-5720.	1.6	3