Periklis Papadopoulos

List of Publications by Citations

70 papers	3,061 citations	31 h-index	54 g-index
70 ext. papers	3,379 ext. citations	5.8 avg, IF	5.09 L-index

#	Paper	IF	Citations
70	How superhydrophobicity breaks down. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 3254-8	11.5	322
69	Direct observation of drops on slippery lubricant-infused surfaces. *Soft Matter*, **2015**, 11, 7617-26	3.6	246
68	Design principles for superamphiphobic surfaces. *Soft Matter*, **2013**, 9, 418-428	3.6	176
67	Self-assembly and dynamics of poly(gamma-benzyl-l-glutamate) peptides. *Biomacromolecules*, **2004**, 5, 81-91	6.9	171
66	Hierarchical Self-Assembly of Poly(Ebenzyl-l-glutamate)Bpoly(ethylene glycol)Bpoly(Ebenzyl-l-glutamate) RodCoilRod Triblock Copolymers. *Macromolecules*, **2003**, 36, 3673-3683	5.5	171
65	Characterization of super liquid-repellent surfaces. *Current Opinion in Colloid and Interface Science*, **2014**, 19, 343-354	7.6	117
64	Charge transport and diffusion of ionic liquids in nanoporous silica membranes. *Physical Chemistry Chemical Physics*, **2010**, 12, 13798-803	3.6	92
63	Liquid drops impacting superamphiphobic coatings. *Langmuir*, **2013**, 29, 7847-56	4	89
62	Super liquid-repellent gas membranes for carbon dioxide capture and heart-lung machines. *Nature Communications*, **2013**, 4, 2512	17.4	88
61	Dynamic measurement of the force required to move a liquid drop on a solid surface. *Langmuir*, **2012**, 28, 16812-20	4	87
60	Interfacial Energy and Glass Temperature of Polymers Confined to Nanoporous Alumina. *Macromolecules*, **2016**, 49, 7400-7414	5.5	74
59	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. *Advanced Materials*, **2015**, 27, 7338-43	24	70
58	Wetting on the microscale: shape of a liquid drop on a microstructured surface at different length scales. *Langmuir*, **2012**, 28, 8392-8	4	63
57	Magnetically actuated micropatterns for switchable wettability. *ACS Applied Materials & Interfaces*, **2014**, 6, 8702-7	9.5	59
56	Nanodomain-induced chain folding in poly(gamma-benzyl-L-glutamate)-b-polyglycine diblock copolymers. *Biomacromolecules*, **2005**, 6, 2352-61	6.9	58
55	The role of temperature and density on the glass-transition dynamics of glass formers. *Journal of Chemical Physics*, **2006**, 124, 74905	3.9	56
54	Structure-property relationships in major ampullate spider silk as deduced from polarized FTIR spectroscopy. *European Physical Journal E*, **2007**, 24, 193-9	1.5	51

53	Origin of Glass Transition of Poly(2-vinylpyridine). A Temperature- and Pressure-Dependent Dielectric Spectroscopy Study. *Macromolecules*, **2004**, 37, 8116-8122	5.5	51
52	Hierarchies in the structural organization of spider silk□ quantitative model. *Colloid and Polymer Science*, **2009**, 287, 231-236	2.4	49
51	Effect of nanoroughness on highly hydrophobic and superhydrophobic coatings. *Langmuir*, **2012**, 28, 15005-14	4	46
50	3D Imaging of Water-Drop Condensation on Hydrophobic and Hydrophilic Lubricant-Impregnated Surfaces. *Scientific Reports*, **2016**, 6, 23687	4.9	45
49	Combined structural model of spider dragline silk. *Soft Matter*, **2009**, 5, 4568	3.6	44
48	Energy Dissipation of Moving Drops on Superhydrophobic and Superoleophobic Surfaces. *Langmuir*, **2017**, 33, 107-116	4	43
47	Mussel collagen molecules with silk-like domains as load-bearing elements in distal byssal threads. *Journal of Structural Biology*, **2011**, 175, 339-47	3.4	43
46	Nonlinear control of high-frequency phonons in spider silk. *Nature Materials*, **2016**, 15, 1079-83	27	40
45	Super liquid-repellent layers: The smaller the better. *Advances in Colloid and Interface Science*, **2015**, 222, 104-9	14.3	39
44	Similarities in the structural organization of major and minor ampullate spider silk. *Macromolecular Rapid Communications*, **2009**, 30, 851-7	4.8	38
43	Solvent-free synthesis of microparticles on superamphiphobic surfaces. *Angewandte Chemie - International Edition*, **2013**, 52, 11286-9	16.4	35
42	Thermodynamic confinement and alpha-helix persistence length in poly(gamma-benzyl-L-glutamate)-b-poly(dimethyl siloxane)-b-poly(gamma-benzyl-L-glutamate) triblock copolymers. *Biomacromolecules*, **2006**, 7, 618-26	6.9	35
41	"Glass transition" in peptides: temperature and pressure effects. *Journal of Chemical Physics*, **2005**, 122, 224906	3.9	32
40	Electromechanical Properties of Smectic C* Liquid Crystal Elastomers under Shear. *Macromolecules*, **2010**, 43, 6666-6670	5.5	31
39	Self-Assembly and Molecular Dynamics of Peptide-Functionalized Polyphenylene Dendrimers. *Macromolecules*, **2006**, 39, 9605-9613	5.5	30
38	Molecular dynamics of oligofluorenes: a dielectric spectroscopy investigation. *Journal of Chemical Physics*, **2004**, 120, 2368-74	3.9	29
37	Shape of a sessile drop on a flat surface covered with a liquid film. *Soft Matter*, **2017**, 13, 3760-3767	3.6	28
36	Single colloid electrophoresis. *Journal of Colloid and Interface Science*, **2009**, 337, 260-4	9.3	28

35	Microdroplet Contaminants: When and Why Superamphiphobic Surfaces Are Not Self-Cleaning. *ACS Nano*, **2020**, 14, 3836-3846	16.7	23
34	Superamphiphobic particles: how small can we go?. *Physical Review Letters*, **2014**, 112, 016101	7.4	23
33	Intra- and inter-molecular dynamics in glass-forming liquids. *Soft Matter*, **2013**, 9, 1600-1603	3.6	23
32	Functional superhydrophobic surfaces made of Janus micropillars. *Soft Matter*, **2015**, 11, 506-15	3.6	22
31	Detaching Microparticles from a Liquid Surface. *Physical Review Letters*, **2018**, 121, 048002	7.4	21
30	Optimization of superamphiphobic layers based on candle soot. *Pure and Applied Chemistry*, **2014**, 86, 87-96	2.1	21
29	Transition Moment Orientation Analysis on a Smectic C Liquid Crystalline Elastomer film. *Macromolecules*, **2010**, 43, 7532-7539	5.5	20
28	Electrokinetics on superhydrophobic surfaces. *Journal of Physics Condensed Matter*, **2012**, 24, 464110	1.8	19
27	Molecular dynamics and morphology of confined 4-heptyl-4?-isothiocyanatobiphenyl liquid crystals. *Soft Matter*, **2012**, 8, 5194	3.6	19
26	Wetting of soft superhydrophobic micropillar arrays. *Soft Matter*, **2018**, 14, 7429-7434	3.6	19
25	-like slippery surface with stable and mobile water/air contact line. *National Science Review*, **2021**, 8, nwaa183	23.1	17
24	Long-Term Repellency of Liquids by Superoleophobic Surfaces. *Physical Review Letters*, **2016**, 117, 046102	7.4	16
23	Partial deuteration probing structural changes in supercontracted spider silk. *Polymer*, **2010**, 51, 4784-4789	3.9	13
22	Pressure-Dependent FTIR-Spectroscopy on the Counterbalance between External and Internal Constraints in Spider Silk of Nephila pilipes. *Macromolecules*, **2013**, 46, 4919-4923	5.5	12
21	IR transition moment orientational analysis on semi-crystalline polyethylene films. *Polymer*, **2011**, 52, 6061-6065	3.9	12
20	Understanding the Formation of Anisometric Supraparticles: A Mechanistic Look Inside Droplets Drying on a Superhydrophobic Surface. *Langmuir*, **2016**, 32, 6902-8	4	10
19	Supercontraction in Nephila spider dragline silk Relaxation into equilibrium state. *Polymer*, **2011**, 52, 6056-6060	3.9	10
18	Checking for voice disorders without clinical intervention: The Greek and global VHI thresholds for voice disordered patients. *Scientific Reports*, **2019**, 9, 9366	4.9	9

17	Structure changes in Nephila dragline: The influence of pressure. *Polymer*, **2012**, 53, 5507-5512	3.9	9
16	The Cassie-Wenzel transition of fluids on nanostructured substrates: Macroscopic force balance versus microscopic density-functional theory. *Journal of Chemical Physics*, **2016**, 145, 134703	3.9	9
15	Driving Droplets on Liquid Repellent Surfaces via Light-Driven Marangoni Propulsion. *Advanced Functional Materials*,2111311	15.6	8
14	Transparent and airtight silica nano- and microchannels with uniform tubular cross-section. *Soft Matter*, **2013**, 9, 9824	3.6	7
13	Solvent-Free Synthesis of Microparticles on Superamphiphobic Surfaces. *Angewandte Chemie*, **2013**, 125, 11496-11499	3.6	7
12	Dynamics of structure formation in a discotic liquid crystal by infrared spectroscopy and related techniques. *Journal of Physical Chemistry B*, **2011**, 115, 14919-27	3.4	7
11	Quantitative analysis of infrared absorption coefficient of spider silk fibers. *Vibrational Spectroscopy*, **2011**, 57, 207-212	2.1	6
10	Colloids in external electric and magnetic fields: Colloidal crystals, pinning, chain formation, and electrokinetics. *European Physical Journal: Special Topics*, **2013**, 222, 2881-2893	2.3	5
9	Pinning-induced Variations of the Contact Angle of Drops on Microstructured Surfaces. *Chemistry Letters*, **2012**, 41, 1343-1345	1.7	5
8	Wetting on the microscale: shape of a liquid drop on a microstructured surface at different length scales. *Langmuir*, **2012**, 28, 10136-9	4	3
7	Impact of substrate elasticity on contact angle saturation in electrowetting. *Soft Matter*, **2021**, 17, 4335-4341	3.4	3
6	Ionic concentration- and pH-dependent electrophoretic mobility as studied by single colloid electrophoresis. *Journal of Physics Condensed Matter*, **2010**, 22, 494109	1.8	2
5	DEVELOPMENT AND VALIDATION OF A REVERSED-PHASE HPLC METHOD FOR THE DETERMINATION OF PINDOLOL AND CLOPAMIDE IN TABLETS. *Journal of Liquid Chromatography and Related Technologies*, **2002**, 25, 125-136	1.3	2
4	Self-assembly of polypeptides. The effect of thermodynamic confinement. *NATO Science Series Series II, Mathematics, Physics and Chemistry*, **2007**, 447-455		2
3	Self-Assembly and the Associated Dynamics in PBLG-PEG-PBLG Triblock Copolymers **2004**, 327-334		1
2	Nanorough silica coatings by chemical vapor deposition. *RSC Advances*, **2014**, 4, 12737	3.7	
1	Wenn selbst Labperlt. *Physik in Unserer Zeit*, **2014**, 45, 228-233	0.1	