

Periklis Papadopoulos

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	-like slippery surface with stable and mobile water/air contact line. <i>National Science Review</i> , 2021 , 8, nwaab1.33	18.3	17
69	Impact of substrate elasticity on contact angle saturation in electrowetting. <i>Soft Matter</i> , 2021 , 17, 4335-4341	4.4	3
68	Microdroplet Contaminants: When and Why Superamphiphobic Surfaces Are Not Self-Cleaning. <i>ACS Nano</i> , 2020 , 14, 3836-3846	16.7	23
67	Checking for voice disorders without clinical intervention: The Greek and global VHI thresholds for voice disordered patients. <i>Scientific Reports</i> , 2019 , 9, 9366	4.9	9
66	Detaching Microparticles from a Liquid Surface. <i>Physical Review Letters</i> , 2018 , 121, 048002	7.4	21
65	Wetting of soft superhydrophobic micropillar arrays. <i>Soft Matter</i> , 2018 , 14, 7429-7434	3.6	19
64	Shape of a sessile drop on a flat surface covered with a liquid film. <i>Soft Matter</i> , 2017 , 13, 3760-3767	3.6	28
63	Energy Dissipation of Moving Drops on Superhydrophobic and Superoleophobic Surfaces. <i>Langmuir</i> , 2017 , 33, 107-116	4	43
62	3D Imaging of Water-Drop Condensation on Hydrophobic and Hydrophilic Lubricant-Impregnated Surfaces. <i>Scientific Reports</i> , 2016 , 6, 23687	4.9	45
61	Long-Term Repellency of Liquids by Superoleophobic Surfaces. <i>Physical Review Letters</i> , 2016 , 117, 046102	12.4	16
60	Nonlinear control of high-frequency phonons in spider silk. <i>Nature Materials</i> , 2016 , 15, 1079-83	27	40
59	Understanding the Formation of Anisometric Supraparticles: A Mechanistic Look Inside Droplets Drying on a Superhydrophobic Surface. <i>Langmuir</i> , 2016 , 32, 6902-8	4	10
58	The Cassie-Wenzel transition of fluids on nanostructured substrates: Macroscopic force balance versus microscopic density-functional theory. <i>Journal of Chemical Physics</i> , 2016 , 145, 134703	3.9	9
57	Interfacial Energy and Glass Temperature of Polymers Confined to Nanoporous Alumina. <i>Macromolecules</i> , 2016 , 49, 7400-7414	5.5	74
56	Direct observation of drops on slippery lubricant-infused surfaces. <i>Soft Matter</i> , 2015 , 11, 7617-26	3.6	246
55	Functional superhydrophobic surfaces made of Janus micropillars. <i>Soft Matter</i> , 2015 , 11, 506-15	3.6	22
54	Synthesis of Mesoporous Supraparticles on Superamphiphobic Surfaces. <i>Advanced Materials</i> , 2015 , 27, 7338-43	24	70

53	Super liquid-repellent layers: The smaller the better. <i>Advances in Colloid and Interface Science</i> , 2015 , 222, 104-9	14.3	39
52	Superamphiphobic particles: how small can we go?. <i>Physical Review Letters</i> , 2014 , 112, 016101	7.4	23
51	Characterization of super liquid-repellent surfaces. <i>Current Opinion in Colloid and Interface Science</i> , 2014 , 19, 343-354	7.6	117
50	Optimization of superamphiphobic layers based on candle soot. <i>Pure and Applied Chemistry</i> , 2014 , 86, 87-96	2.1	21
49	Nanorough silica coatings by chemical vapor deposition. <i>RSC Advances</i> , 2014 , 4, 12737	3.7	
48	Magnetically actuated micropatterns for switchable wettability. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 8702-7	9.5	59
47	Wenn selbst flabperl. <i>Physik in Unserer Zeit</i> , 2014 , 45, 228-233	0.1	
46	Colloids in external electric and magnetic fields: Colloidal crystals, pinning, chain formation, and electrokinetics. <i>European Physical Journal: Special Topics</i> , 2013 , 222, 2881-2893	2.3	5
45	Transparent and airtight silica nano- and microchannels with uniform tubular cross-section. <i>Soft Matter</i> , 2013 , 9, 9824	3.6	7
44	Super liquid-repellent gas membranes for carbon dioxide capture and heart-lung machines. <i>Nature Communications</i> , 2013 , 4, 2512	17.4	88
43	Intra- and inter-molecular dynamics in glass-forming liquids. <i>Soft Matter</i> , 2013 , 9, 1600-1603	3.6	23
42	Design principles for superamphiphobic surfaces. <i>Soft Matter</i> , 2013 , 9, 418-428	3.6	176
41	Liquid drops impacting superamphiphobic coatings. <i>Langmuir</i> , 2013 , 29, 7847-56	4	89
40	Pressure-Dependent FTIR-Spectroscopy on the Counterbalance between External and Internal Constraints in Spider Silk of <i>Nephila pilipes</i> . <i>Macromolecules</i> , 2013 , 46, 4919-4923	5.5	12
39	How superhydrophobicity breaks down. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 3254-8	11.5	322
38	Solvent-free synthesis of microparticles on superamphiphobic surfaces. <i>Angewandte Chemie - International Edition</i> , 2013 , 52, 11286-9	16.4	35
37	Solvent-Free Synthesis of Microparticles on Superamphiphobic Surfaces. <i>Angewandte Chemie</i> , 2013 , 125, 11496-11499	3.6	7
36	Pinning-induced Variations of the Contact Angle of Drops on Microstructured Surfaces. <i>Chemistry Letters</i> , 2012 , 41, 1343-1345	1.7	5

35	Dynamic measurement of the force required to move a liquid drop on a solid surface. <i>Langmuir</i> , 2012 , 28, 16812-20	4	87
34	Electrokinetics on superhydrophobic surfaces. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 464110	1.8	19
33	Effect of nanoroughness on highly hydrophobic and superhydrophobic coatings. <i>Langmuir</i> , 2012 , 28, 15005-14	4	46
32	Molecular dynamics and morphology of confined 4-heptyl-4'-isothiocyanatobiphenyl liquid crystals. <i>Soft Matter</i> , 2012 , 8, 5194	3.6	19
31	Structure changes in Nephila dragline: The influence of pressure. <i>Polymer</i> , 2012 , 53, 5507-5512	3.9	9
30	Wetting on the microscale: shape of a liquid drop on a microstructured surface at different length scales. <i>Langmuir</i> , 2012 , 28, 8392-8	4	63
29	Wetting on the microscale: shape of a liquid drop on a microstructured surface at different length scales. <i>Langmuir</i> , 2012 , 28, 10136-9	4	3
28	Mussel collagen molecules with silk-like domains as load-bearing elements in distal byssal threads. <i>Journal of Structural Biology</i> , 2011 , 175, 339-47	3.4	43
27	IR transition moment orientational analysis on semi-crystalline polyethylene films. <i>Polymer</i> , 2011 , 52, 6061-6065	3.9	12
26	Supercontraction in Nephila spider dragline silk [Relaxation into equilibrium state. <i>Polymer</i> , 2011 , 52, 6056-6060	3.9	10
25	Quantitative analysis of infrared absorption coefficient of spider silk fibers. <i>Vibrational Spectroscopy</i> , 2011 , 57, 207-212	2.1	6
24	Dynamics of structure formation in a discotic liquid crystal by infrared spectroscopy and related techniques. <i>Journal of Physical Chemistry B</i> , 2011 , 115, 14919-27	3.4	7
23	Ionic concentration- and pH-dependent electrophoretic mobility as studied by single colloid electrophoresis. <i>Journal of Physics Condensed Matter</i> , 2010 , 22, 494109	1.8	2
22	Transition Moment Orientation Analysis on a Smectic C Liquid Crystalline Elastomer film. <i>Macromolecules</i> , 2010 , 43, 7532-7539	5.5	20
21	Electromechanical Properties of Smectic C* Liquid Crystal Elastomers under Shear. <i>Macromolecules</i> , 2010 , 43, 6666-6670	5.5	31
20	Charge transport and diffusion of ionic liquids in nanoporous silica membranes. <i>Physical Chemistry Chemical Physics</i> , 2010 , 12, 13798-803	3.6	92
19	Partial deuteration probing structural changes in supercontracted spider silk. <i>Polymer</i> , 2010 , 51, 4784-4789	3.9	13
18	Similarities in the structural organization of major and minor ampullate spider silk. <i>Macromolecular Rapid Communications</i> , 2009 , 30, 851-7	4.8	38

17	Hierarchies in the structural organization of spider silk: quantitative model. <i>Colloid and Polymer Science</i> , 2009 , 287, 231-236	2.4	49
16	Single colloid electrophoresis. <i>Journal of Colloid and Interface Science</i> , 2009 , 337, 260-4	9.3	28
15	Combined structural model of spider dragline silk. <i>Soft Matter</i> , 2009 , 5, 4568	3.6	44
14	Structure-property relationships in major ampullate spider silk as deduced from polarized FTIR spectroscopy. <i>European Physical Journal E</i> , 2007 , 24, 193-9	1.5	51
13	Self-assembly of polypeptides. The effect of thermodynamic confinement. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2007 , 447-455		2
12	The role of temperature and density on the glass-transition dynamics of glass formers. <i>Journal of Chemical Physics</i> , 2006 , 124, 74905	3.9	56
11	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. <i>Biomacromolecules</i> , 2006 , 7, 618-26	6.9	35
10	Self-Assembly and Molecular Dynamics of Peptide-Functionalized Polyphenylene Dendrimers. <i>Macromolecules</i> , 2006 , 39, 9605-9613	5.5	30
9	"Glass transition" in peptides: temperature and pressure effects. <i>Journal of Chemical Physics</i> , 2005 , 122, 224906	3.9	32
8	Nanodomain-induced chain folding in poly(gamma-benzyl-L-glutamate)-b-polyglycine diblock copolymers. <i>Biomacromolecules</i> , 2005 , 6, 2352-61	6.9	58
7	Molecular dynamics of oligofluorenes: a dielectric spectroscopy investigation. <i>Journal of Chemical Physics</i> , 2004 , 120, 2368-74	3.9	29
6	Self-assembly and dynamics of poly(gamma-benzyl-L-glutamate) peptides. <i>Biomacromolecules</i> , 2004 , 5, 81-91	6.9	171
5	Origin of Glass Transition of Poly(2-vinylpyridine). A Temperature- and Pressure-Dependent Dielectric Spectroscopy Study. <i>Macromolecules</i> , 2004 , 37, 8116-8122	5.5	51
4	Self-Assembly and the Associated Dynamics in PBLG-PEG-PBLG Triblock Copolymers 2004 , 327-334		1
3	Hierarchical Self-Assembly of Poly(Ebenzyl-L-glutamate)Poly(ethylene glycol)Poly(Ebenzyl-L-glutamate) RodCoilRod Triblock Copolymers. <i>Macromolecules</i> , 2003 , 36, 3673-3683	5.5	171
2	DEVELOPMENT AND VALIDATION OF A REVERSED-PHASE HPLC METHOD FOR THE DETERMINATION OF PINDOLOL AND CLOPAMIDE IN TABLETS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2002 , 25, 125-136	1.3	2
1	Driving Droplets on Liquid Repellent Surfaces via Light-Driven Marangoni Propulsion. <i>Advanced Functional Materials</i> , 2111311	15.6	8