Marco Werner

List of Publications by Year
in descending order

29 papers	813 citations	516710 16 h-index	501196 28 g-index
29 all docs	29 docs citations	29 times ranked	1151 citing authors

#	Article	IF	Citations
1	High Aspect Ratio Nanostructures Kill Bacteria via Storage and Release of Mechanical Energy. ACS Nano, 2018, 12, 6657-6667.	14.6	120
2	The multi-faceted mechano-bactericidal mechanism of nanostructured surfaces. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 12598-12605.	7.1	119
3	Nanoparticle-Induced Permeability of Lipid Membranes. ACS Nano, 2012, 6, 10555-10561.	14.6	90
4	Subtle Variations in Surface Properties of Black Silicon Surfaces Influence the Degree of Bactericidal Efficiency. Nano-Micro Letters, 2018, 10, 36.	27.0	68
5	Homo-polymers with balanced hydrophobicity translocate through lipid bilayers and enhance local solvent permeability. Soft Matter, 2012, 8, 11714.	2.7	44
6	Translocation and Induced Permeability of Random Amphiphilic Copolymers Interacting with Lipid Bilayer Membranes. Biomacromolecules, 2015, 16, 125-135.	5.4	40
7	Interactions of Amphiphilic Triblock Copolymers with Lipid Membranes: Modes of Interaction and Effect on Permeability Examined by Generic Monte Carlo Simulations. Macromolecules, 2015, 48, 4724-4732.	4.8	35
8	Simulations of Protein Adsorption on Nanostructured Surfaces. Scientific Reports, 2019, 9, 4694.	3.3	34
9	Critical adsorption controls translocation of polymer chains through lipid bilayers and permeation of solvent. Europhysics Letters, 2012, 98, 18003.	2.0	31
10	Polymer-decorated tethered membranes under good- and poor-solvent conditions. European Physical Journal E, 2010, 31, 383-392.	1.6	27
11	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. Biointerphases, 2018, 13, 028501.	1.6	23
12	Tension-Induced Translocation of an Ultrashort Carbon Nanotube through a Phospholipid Bilayer. ACS Nano, 2018, 12, 12042-12049.	14.6	20
13	Pillars of Life: Is There a Relationship between Lifestyle Factors and the Surface Characteristics of Dragonfly Wings?. ACS Omega, 2018, 3, 6039-6046.	3.5	19
14	Single polymer chains in poor solvent: Using the bond fluctuation method with explicit solvent. Journal of Chemical Physics, 2013, 138, 094902.	3.0	18
15	The pyrrolopyrimidine colchicine-binding site agent PP-13 reduces the metastatic dissemination of invasive cancer cells in vitro and in vivo. Biochemical Pharmacology, 2019, 160, 1-13.	4.4	17
16	Dynamic studies of the interaction of a pH responsive, amphiphilic polymer with a DOPC lipid membrane. Soft Matter, 2017, 13, 3690-3700.	2.7	16
17	High-throughput 3D visualization of nanoparticles attached to the surface of red blood cells. Nanoscale, 2019, 11, 2282-2288.	5.6	12
18	Protein corona modulates interaction of spiky nanoparticles with lipid bilayers. Journal of Colloid and Interface Science, 2021, 603, 550-558.	9.4	12

#	Article	IF	Citations
19	Structure and Chemical Organization in Damselfly Calopteryx haemorrhoidalis Wings: A Spatially Resolved FTIR and XRF Analysis with Synchrotron Radiation. Scientific Reports, 2018, 8, 8413.	3.3	11
20	Olympic Gels: Concatenation and Swelling. Macromolecular Symposia, 2015, 358, 140-147.	0.7	10
21	Formation and stabilization of pores in bilayer membranes by peptide-like amphiphilic polymers. Soft Matter, 2018, 14, 2526-2534.	2.7	10
22	Thermal Tunneling of Homopolymers through Amphiphilic Membranes. ACS Macro Letters, 2017, 6, 247-251.	4.8	9
23	Unexpected Cholesterol-Induced Destabilization of Lipid Membranes near Transmembrane Carbon Nanotubes. Physical Review Letters, 2020, 124, 038001.	7.8	7
24	Shape-Adaptive Single-Chain Nanoparticles Interacting with Lipid Membranes. Macromolecules, 2019, 52, 9578-9584.	4.8	6
25	Neural network learns physical rules for copolymer translocation through amphiphilic barriers. Npj Computational Materials, 2020, 6, .	8.7	5
26	Decoding Interaction Patterns from the Chemical Sequence of Polymers Using Neural Networks. ACS Macro Letters, 2021, 10, 1333-1338.	4.8	4
27	Self-organized stiffness in regular fractal polymer structures. Physical Review E, 2011, 83, 051802.	2.1	3
28	Bridging molecular simulation models and elastic theories for amphiphilic membranes. Journal of Chemical Physics, 2018, 149, 014902.	3.0	2
29	Study of melanin localization in the mature maleCalopteryx haemorrhoidalisdamselfly wings. Journal of Synchrotron Radiation, 2018, 25, 874-877.	2.4	1