

Mark w Vaughn

List of Publications by Year in descending order

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38
papers

1,998
citations

393982

19
h-index

395343

33
g-index

38
all docs

38
docs citations

38
times ranked

1946
citing authors

#	ARTICLE	IF	CITATIONS
1	Intravascular flow decreases erythrocyte consumption of nitric oxide. Proceedings of the National Academy of Sciences of the United States of America, 1999, 96, 8757-8761.	3.3	289
2	Estimation of nitric oxide production and reaction rates in tissue by use of a mathematical model. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H2163-H2176.	1.5	240
3	Direct Imaging of Meniscus Formation in Atomic Force Microscopy Using Environmental Scanning Electron Microscopy. Langmuir, 2005, 21, 8096-8098.	1.6	211
4	Erythrocytes Possess an Intrinsic Barrier to Nitric Oxide Consumption. Journal of Biological Chemistry, 2000, 275, 2342-2348.	1.6	205
5	Effective diffusion distance of nitric oxide in the microcirculation. American Journal of Physiology - Heart and Circulatory Physiology, 1998, 274, H1705-H1714.	1.5	164
6	Modulation of nitric oxide bioavailability by erythrocytes. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11771-11776.	3.3	160
7	Nitric oxide reaction with red blood cells and hemoglobin under heterogeneous conditions. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 7763-7768.	3.3	94
8	Erythrocyte Consumption of Nitric Oxide: Competition Experiment and Model Analysis. Nitric Oxide - Biology and Chemistry, 2001, 5, 18-31.	1.2	78
9	Morphology and Amine Accessibility of (3-aminopropyl) Triethoxysilane Films on Glass Surfaces. Scanning, 2008, 30, 65-77.	0.7	72
10	Molecular Dynamics Simulation of Nanoparticle Self-Assembly at a Liquid-Liquid Interface. Langmuir, 2006, 22, 6385-6390.	1.6	60
11	Microfluidic-based diagnostics for cervical cancer cells. Biosensors and Bioelectronics, 2006, 21, 1991-1995.	5.3	51
12	Cholesterol Modulates the Interaction of β -Amyloid Peptide with Lipid Bilayers. Biophysical Journal, 2009, 96, 4299-4307.	0.2	51
13	Molecular Dynamics Simulations Reveal the Protective Role of Cholesterol in β -Amyloid Protein-Induced Membrane Disruptions in Neuronal Membrane Mimics. Journal of Physical Chemistry B, 2011, 115, 9795-9812.	1.2	48
14	Recognition and capture of breast cancer cells using an antibody-based platform in a microelectromechanical systems device. Biomedical Microdevices, 2007, 9, 35-42.	1.4	43
15	Evidence of meniscus interface transport in dip-pen nanolithography: An annular diffusion model. Journal of Chemical Physics, 2006, 125, 144703.	1.2	40
16	Cholesterol Supports Headgroup Superlattice Domain Formation in Fluid Phospholipid/Cholesterol Bilayers. Journal of Physical Chemistry B, 2006, 110, 6339-6350.	1.2	30
17	Molecular Dynamics Studies of the Molecular Structure and Interactions of Cholesterol Superlattices and Random Domains in an Unsaturated Phosphatidylcholine Bilayer Membrane. Journal of Physical Chemistry B, 2007, 111, 11021-11031.	1.2	24
18	Cell Detachment Model for an Antibody-Based Microfluidic Cancer Screening System. Biotechnology Progress, 2008, 22, 1426-1433.	1.3	23

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19	Cholesterol Modulated Antibody Binding in Supported Lipid Membranes as Determined by Total Internal Reflectance Microscopy on a Microfabricated High-throughput Glass Chip. <i>Langmuir</i> , 2005, 21, 9666-9674.	1.6	21
20	Surface Tension Effect on Transmembrane Channel Stability in a Model Membrane. <i>Journal of Physical Chemistry B</i> , 2005, 109, 19474-19483.	1.2	13
21	A Surface Equation of State for a Partially Soluble Ionized Surfactant. <i>Journal of Colloid and Interface Science</i> , 1997, 195, 1-7.	5.0	12
22	Lipid Headgroup Superlattice Modulates the Activity of Surface-Acting Cholesterol Oxidase in Ternary Phospholipid/Cholesterol Bilayers. <i>Biochemistry</i> , 2006, 45, 10855-10864.	1.2	10
23	Maximally asymmetric transbilayer distribution of anionic lipids alters the structure and interaction with lipids of an amyloidogenic protein dimer bound to the membrane surface. <i>Chemistry and Physics of Lipids</i> , 2016, 196, 33-51.	1.5	10
24	From Langmuir isotherm to Brunauer-Emmett-Teller isotherm. <i>AIChE Journal</i> , 2022, 68, e17523.	1.8	9
25	Small angle X-ray scattering analysis of the effect of cold compaction of Al/MoO ₃ thermite composites. <i>Physical Chemistry Chemical Physics</i> , 2008, 10, 193-199.	1.3	8
26	Lipid insertion domain unfolding regulates protein orientational transition behavior in a lipid bilayer. <i>Biophysical Chemistry</i> , 2015, 206, 22-39.	1.5	7
27	The Fertile and Infertile Phases of the Menstrual Cycle are Signaled by Cervical-Vaginal Fluid Die Swell Functions. , 2009, 19, 291-297.		6
28	Characterization of 3D Voronoi tessellation nearest neighbor lipid shells provides atomistic lipid disruption profile of protein containing lipid membranes. <i>Biophysical Chemistry</i> , 2015, 198, 22-35.	1.5	6
29	Scaling and alpha-helix regulation of protein relaxation in a lipid bilayer. <i>Journal of Chemical Physics</i> , 2014, 141, 225101.	1.2	4
30	Effects of Viscous Normal Stresses in Thin Draining Films. <i>Industrial & Engineering Chemistry Research</i> , 1995, 34, 3185-3186.	1.8	3
31	Erythrocyte Consumption of Nitric Oxide: Competition Experiment and Model Analysis. <i>Nitric Oxide - Biology and Chemistry</i> , 2001, 5, 425.	1.2	2
32	Data supporting beta-amyloid dimer structural transitions and protein-lipid interactions on asymmetric lipid bilayer surfaces using MD simulations on experimentally derived NMR protein structures. <i>Data in Brief</i> , 2016, 7, 658-672.	0.5	2
33	Diffusion and trapping in a suspension of spheres with simultaneous reaction in the continuous phase. <i>Journal of Chemical Physics</i> , 2004, 120, 9351-9358.	1.2	1
34	First-passage approach for permeable traps. <i>Journal of Chemical Physics</i> , 2005, 123, 134905.	1.2	1
35	Modeling nanoscale ink transport in Dip Pen Nanolithography. <i>Proceedings of SPIE</i> , 2008, , .	0.8	0
36	Computer Simulations of Alzheimer's Beta Amyloid Interactions with Multicomponent Lipid Bilayers. <i>Biophysical Journal</i> , 2010, 98, 239a.	0.2	0

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37	A New Monte Carlo Method for Exploring the Surface Area, Volume and Voids of Molecules in Protein Containing Lipid Bilayers with Atomistic Detail. <i>Biophysical Journal</i> , 2012, 102, 597a.	0.2	0
38	Atomistic MD Simulations Reveal the Protective Role of Cholesterol in the Membrane Disruptive Effects of Dimeric Beta-Amyloid in Neuronal Membrane Mimics. <i>Biophysical Journal</i> , 2012, 102, 632a.	0.2	0