James W Schneider

List of Publications by Year in descending order

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414414 471509 1,050 41 17 32 citations h-index g-index papers 43 43 43 1203 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	Rapid, multiplexed detection of the <i>letâ€7</i> <scp>miRNA</scp> family using <scp>γPNA</scp> amphiphiles in micelleâ€tagging electrophoresis. Biopolymers, 2022, 113, e23479.	2.4	1
2	Viral adventitious agent detection using laser force cytology: Intrinsic cell property changes with infection and comparison to in vitro testing. Biotechnology and Bioengineering, 2022, 119, 134-144.	3.3	4
3	Dynamics of a sphere in inertial shear flow between parallel walls. Journal of Fluid Mechanics, 2021, 915, .	3.4	9
4	Determination of the zeta potential of planar solids in nonpolar liquids. Journal of Colloid and Interface Science, 2021, 592, 271-278.	9.4	0
5	Inertial bifurcation of the equilibrium position of a neutrally-buoyant circular cylinder in shear flow between parallel walls. Physical Review Research, 2020, 2, .	3.6	6
6	Formation of Charge Carriers in Liquids. Advances in Colloid and Interface Science, 2017, 244, 21-35.	14.7	23
7	Introduction to Editorial Board Members: Professor Matthew V. Tirrell. Bioengineering and Translational Medicine, 2016, 1, 237-238.	7.1	O
8	A 502-Base Free-Solution Electrophoretic DNA Sequencing Method Using End-Attached Wormlike Micelles. Analytical Chemistry, 2015, 87, 11433-11440.	6.5	3
9	Modeling and global optimization of DNA separation. Computers and Chemical Engineering, 2014, 64, 63-70.	3.8	3
10	Optimization of ELFSE DNA sequencing with EOF counterflow and microfluidics. Electrophoresis, 2014, 35, 3408-3414.	2.4	4
11	High Affinity \hat{I}^3 PNA Sandwich Hybridization Assay for Rapid Detection of Short Nucleic Acid Targets with Single Mismatch Discrimination. Biomacromolecules, 2013, 14, 2253-2261.	5.4	19
12	Projective Integration with an Adaptive Projection Horizon. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 721-725.	0.4	0
13	Optimal Design of Microfluidic Devices for Rapid DNA Separations. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2013, 46, 137-142.	0.4	5
14	Quasi-Equilibrium AFM Measurement of Disjoining Pressure in Lubricant Nanofilms II: Effect of Substrate Materials. Langmuir, 2009, 25, 2101-2106.	3.5	17
15	Lengthâ€dependent DNA separations using multiple endâ€attached peptide nucleic acid amphiphiles in micellar electrokinetic chromatography. Electrophoresis, 2008, 29, 2779-2789.	2.4	19
16	Identification of PCR Products Using PNA Amphiphiles in Micellar Electrokinetic Chromatography. Analytical Chemistry, 2007, 79, 9513-9519.	6.5	27
17	High Capacity, Charge-Selective Protein Uptake by Polyelectrolyte Brushes. Langmuir, 2007, 23, 4448-4454.	3.5	135
18	Sequence-specific purification of DNA oligomers in hydrophobic interaction chromatography using peptide nucleic acid amphiphiles: Extended dynamic range. Biotechnology and Bioengineering, 2007, 97, 367-376.	3.3	10

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19	A Tapping-Mode AFM Study of the Compression of Grafted Poly(ethylene glycol) Chains. Macromolecules, 2006, 39, 3616-3621.	4.8	22
20	Morphological Characterization of Self-Assembled Peptide Nucleic Acid Amphiphiles. Journal of Physical Chemistry B, 2006, 110, 9027-9033.	2.6	28
21	Quasi-Equilibrium AFM Measurement of Disjoining Pressure in Lubricant Nano-Films I:Â Fomblin Z03 on Silica. Langmuir, 2006, 22, 11436-11446.	3.5	25
22	Effect of electrostatic interactions on binding and retention of DNA oligomers to PNA liposomes assessed by FRET measurements. Colloids and Surfaces B: Biointerfaces, 2006, 53, 1-8.	5.0	5
23	Measurement of disjoining pressure of Z-type perfluoropolyether lubricants on Si and SiNx surfaces. Tribology International, 2005, 38, 528-532.	5.9	4
24	Thermodynamic and structural characterization of amino acid-linked dialkyl lipids. Chemistry and Physics of Lipids, 2005, 134, 29-39.	3.2	9
25	Sequence-Specific Binding of DNA to Liposomes Containing Di-Alkyl Peptide Nucleic Acid (PNA) Amphiphiles. Langmuir, 2005, 21, 2488-2494.	3.5	29
26	Sequence-Specific Oligonucleotide Purification Using Peptide Nucleic Acid Amphiphiles in Hydrophobic Interaction Chromatography. Biotechnology Progress, 2004, 20, 1776-1782.	2.6	9
27	Direct force measurement of the stability of poly(ethylene glycol)–polyethylenimine graft films. Journal of Colloid and Interface Science, 2004, 276, 306-316.	9.4	21
28	Characterization of Distance-Dependent Damping in Tapping-Mode Atomic Force Microscopy Force Measurements in Liquid. Langmuir, 2004, 20, 3195-3201.	3.5	18
29	Peptide Nucleic Acid (PNA) Amphiphiles:  Synthesis, Self-Assembly, and Duplex Stability. Bioconjugate Chemistry, 2004, 15, 1314-1321.	3.6	58
30	Nanometer Scale Surface Properties of Supported Lipid Bilayers Measured with Hydrophobic and Hydrophilic Atomic Force Microscope Probesâ€. Langmuir, 2003, 19, 1899-1907.	3.5	51
31	Tapping-mode AFM - Force Measurement Capabilities on Compliant Surfaces. Materials Research Society Symposia Proceedings, 2003, 790, 1.	0.1	0
32	Surface Force Measurements of Electrostatic and Hydrogen-Bonding Interactions between Bilayers of Glycine Amphiphiles. Langmuir, 2002, 18, 3923-3931.	3.5	10
33	Force Titration of Langmuirâ-'Blodgett Bilayers of Glycine Amphiphiles:Â JKR-Type Measurements Using the Surface-Force Apparatus. Langmuir, 2002, 18, 2702-2709.	3.5	10
34	Structural Study of Langmuir Monolayers Containing Lipidated Poly(ethylene glycol) and Peptides. Langmuir, 2001, 17, 6931-6937.	3.5	35
35	Atomic Force Microscope Image Contrast Mechanisms on Supported Lipid Bilayers. Biophysical Journal, 2000, 79, 1107-1118.	0.5	121
36	Development and characterization of surface chemistries for microfabricated biosensors. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1999, 17, 2623-2628.	2.1	42

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37	Characterization of the physical properties of model biomembranes at the nanometer scale with the atomic force microscope. Faraday Discussions, 1999, 111, 79-94.	3.2	102
38	Direct Measurement of Molecular-Level Forces and Adhesion in Biological Systems. Drugs and the Pharmaceutical Sciences, 1999, , 223-259.	0.1	3
39	Effect of substrate anchoring on the mechanical strength of Langmuir–Blodgett bilayers. Thin Solid Films, 1998, 327-329, 772-777.	1.8	6
40	Force and Adhesion Measurements between Hydrogen-Bonded Layers of Glycine-Functionalized Amphiphiles. Journal of the American Chemical Society, 1998, 120, 3508-3509.	13.7	14
41	Adsorption of Hydrophilic-Hydrophobic Block Copolymers on Silica from Aqueous Solutions. Macromolecules, 1995, 28, 3125-3134.	4.8	136