Michael J Tarlov

List of Publications by Year
in descending order

53	8,159	126907	182427
papers	citations	33 h-index	51 g-index

53	53	53	7700
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Absolute Quantification Method for Protein Concentration. Analytical Chemistry, 2014, 86, 12130-12137.	6.5	13
2	Competitive adsorptionâ€“desorption of IgM monomers-dimers on silica and modified silica surfaces. Journal of Colloid and Interface Science, 2013, 402, 291-299.	9.4	2
3	Characterization of Polydopamine Thin Films Deposited at Short Times by Autoxidation of Dopamine. Langmuir, 2013, 29, 8619-8628.	3.5	739
4	Quantifying Ligand Adsorption to Nanoparticles Using Tandem Differential Mobility Mass Analysis. Analytical Chemistry, 2012, 84, 6308-6311.	6.5	26
5	Electrosprayâ€“Differential Mobility Analysis as an Orthogonal Tool to Size-Exclusion Chromatography for Characterization of Protein Aggregates. Journal of Pharmaceutical Sciences, 2012, 101, 1985-1994.	3.3	9
6	Protein adsorptionâ€“desorption on electrospray capillary walls â€“ No influence on aggregate distribution. Journal of Colloid and Interface Science, 2012, 377, 476-484.	9.4	11
7	Electrosprayâ€“differential mobility analysis of bionanoparticles. Trends in Biotechnology, 2012, 30, 291-300.	9.3	80
8	Physical Characterization of Icosahedral Virus Ultra Structure, Stability, and Integrity Using Electrospray Differential Mobility Analysis. Analytical Chemistry, 2011, 83, 1753-1759.	6.5	26
9	Method for Determining the Absolute Number Concentration of Nanoparticles from Electrospray Sources. Langmuir, 2011, 27, 14732-14739.	3.5	39
10	Characterizing the Adsorption of Proteins on Glass Capillary Surfaces Using Electrospray-Differential Mobility Analysis. Langmuir, 2011, 27, 13008-13014.	3.5	8
11	Evaluation of electrospray differential mobility analysis for virus particle analysis: Potential applications for biomanufacturing. Journal of Virological Methods, 2011, 178, 201-208.	2.1	21
12	Quantification and Compensation of Nonspecific Analyte Aggregation in Electrospray Sampling. Aerosol Science and Technology, 2011, 45, 849-860.	3.1	34
13	Packing and Size Determination of Colloidal Nanoclusters. Langmuir, 2010, 26, 11384-11390.	3.5	37
14	Probing the Nucleus Model for Oligomer Formation during Insulin Amyloid Fibrillogenesis. Biophysical Journal, 2010, 99, 3979-3985.	0.5	53
15	Characterization of Gold Nanoparticles Modified with Single-Stranded DNA Using Analytical Ultracentrifugation and Dynamic Light Scattering. Langmuir, 2010, 26, 12740-12747.	3.5	47
16	Quantitative characterization of virusâ€like particles by asymmetrical flow field flow fractionation, electrospray differential mobility analysis, and transmission electron microscopy. Biotechnology and Bioengineering, 2009, 102, 845-855.	3.3	104
17	Length Distribution of Singleâ€Walled Carbon Nanotubes in Aqueous Suspension Measured by Electrospray Differential Mobility Analysis. Small, 2009, 5, 2894-2901.	10.0	40
18	Selective Binding of RNase B Glycoforms by Polydopamine-Immobilized Concanavalin A. Analytical Chemistry, 2009, 81, 5413-5420.	6.5	57

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19	Determination of protein aggregation with differential mobility analysis: Application to IgG antibody. Biotechnology and Bioengineering, 2008, 101, 1214-1222.	3.3	113
20	A consensus rating method for small virus-retentive filters. I. Method development. PDA Journal of Pharmaceutical Science and Technology, 2008, 62, 318-33.	0.5	17
21	Independent control of grafting density and conformation of single-stranded DNA brushes. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 9-14.	7.1	204
22	Quantifying the Surface Coverage of Conjugate Molecules on Functionalized Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 17155-17157.	3.1	62
23	Synthesis and Structural Characterization of Glucopyranosylamide Films on Gold. Langmuir, 2007, 23, 700-707.	3.5	18
24	Adsorption Behavior of DNA-Wrapped Carbon Nanotubes on Self-Assembled Monolayer Surfaces. Langmuir, 2007, 23, 6252-6256.	3.5	27
25	Hydrogel-Immobilized Antibodies for Microfluidic Immunoassays: <I>Hydrogel Immunoassay</I>. , 2006, 321, 83-96.		4
26	Nucleobase Orientation and Ordering in Films of Single-Stranded DNA on Gold. Journal of the American Chemical Society, 2006, 128, 2-3.	13.7	153
27	Alkanethiols on Platinum: Multicomponent Self-Assembled Monolayers. Langmuir, 2006, 22, 2578-2587.	3.5	113
28	Electrochemical study of chitosan films deposited from solution at reducing potentials. Electrochimica Acta, 2006, 51, 5324-5333.	5.2	109
29	New technique for visualizing microboiling phenomena and its application to water pulse heated by a thin metal film. Review of Scientific Instruments, 2006, 77, 063706.	1.3	23
30	Nanosecond Imaging of Microboiling Behavior on Pulsed-Heated Au Films Modified with Hydrophilic and Hydrophobic Self-Assembled Monolayers. Langmuir, 2005, 21, 10459-10467.	3.5	34
31	Atmospheric pressure microplasmas for modifying sealed microfluidic devices. Applied Physics Letters, 2004, 84, 1668-1670.	3.3	53
32	DNA Displacement Assay Integrated into Microfluidic Channels. Analytical Chemistry, 2004, 76, 3655-3659.	6.5	30
33	DNA Hybridization Assays Using Temperature Gradient Focusing and Peptide Nucleic Acids. Journal of the American Chemical Society, 2004, 126, 13474-13479.	13.7	42
34	Quantitative Characterization of DNA Films by X-ray Photoelectron Spectroscopy. Langmuir, 2004, 20, 429-440.	3.5	185
35	UV Graft Polymerization of Polyacrylamide Hydrogel Plugs in Microfluidic Channels. Langmuir, 2003, 19, 6901-6904.	3.5	33
36	Quantitative Analysis and Characterization of DNA Immobilized on Gold. Journal of the American Chemical Society, 2003, 125, 5219-5226.	13.7	377

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37	Base-Dependent Competitive Adsorption of Single-Stranded DNA on Gold. Journal of the American Chemical Society, 2003, 125, 9014-9015.	13.7	437
38	Effect of Surface Wettability on Fast Transient Microboiling Behavior. Langmuir, 2003, 19, 6168-6177.	3.5	53
39	Immobilization of DNA Hydrogel Plugs in Microfluidic Channels. Analytical Chemistry, 2002, 74, 1436-1441.	6.5	102
40	Detection of ViableCryptosporidiumparvumUsing DNA-Modified Liposomes in a Microfluidic Chip. Analytical Chemistry, 2001, 73, 2952-2958.	6.5	79
41	Electrostatic Interactions of Redox Cations with Surface-Immobilized and Solution DNA. Bioconjugate Chemistry, 1999, 10, 419-423.	3.6	98
42	Electrochemical Quantitation of DNA Immobilized on Gold. Analytical Chemistry, 1998, 70, 4670-4677.	6.5	1,250
43	Using Self-Assembly To Control the Structure of DNA Monolayers on Gold:â€‰ A Neutron Reflectivity Study. Journal of the American Chemical Society, 1998, 120, 9787-9792.	13.7	648
44	Observation of Hybridization and Dehybridization of Thiol-Tethered DNA Using Two-Color Surface Plasmon Resonance Spectroscopy. Journal of the American Chemical Society, 1997, 119, 3401-3402.	13.7	469
45	Characterization of DNA Probes Immobilized on Gold Surfaces. Journal of the American Chemical Society, 1997, 119, 8916-8920.	13.7	1,414
46	Surface plasmon microscopy of biotin-streptavidin binding reactions on UV-photopatterned alkanethiol self-assembled monolayers. Supramolecular Science, 1995, 2, 99-106.	0.7	63
47	Proper credit. Nature Biotechnology, 1994, 12, 745-745.	17.5	0
48	Patterning of selfâ€assembled alkanethiol monolayers on silver by microfocus ion and electron beam bombardment. Applied Physics Letters, 1994, 65, 534-536.	3.3	57
49	Static SIMS and XPS study of water plasma exposed tin oxide films. Applied Surface Science, 1993, 64, 115-125.	6.1	9
50	UV photopatterning of alkanethiolate monolayers self-assembled on gold and silver. Journal of the American Chemical Society, 1993, 115, 5305-5306.	13.7	353
51	Static secondary ion mass spectrometry of self-assembled alkanethiol monolayers on gold. Langmuir, 1992, 8, 1398-1405.	3.5	163
52	Surface characterization of radio frequency water plasma treated and annealed polycrystalline tin oxide thin films. Chemistry of Materials, 1990, 2, 49-60.	6.7	14
53	Adsorption of metal cations from aqueous solution onto tin oxide thin films. Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films, 1987, 5, 941-943.	2.1	7