

Michael J Tarlov

List of Publications by Year in descending order

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53
papers

8,159
citations

126907

33
h-index

182427

51
g-index

53
all docs

53
docs citations

53
times ranked

7700
citing authors

#	ARTICLE	IF	CITATIONS
1	Characterization of DNA Probes Immobilized on Gold Surfaces. <i>Journal of the American Chemical Society</i> , 1997, 119, 8916-8920.	13.7	1,414
2	Electrochemical Quantitation of DNA Immobilized on Gold. <i>Analytical Chemistry</i> , 1998, 70, 4670-4677.	6.5	1,250
3	Characterization of Polydopamine Thin Films Deposited at Short Times by Autoxidation of Dopamine. <i>Langmuir</i> , 2013, 29, 8619-8628.	3.5	739
4	Using Self-Assembly To Control the Structure of DNA Monolayers on Gold: A Neutron Reflectivity Study. <i>Journal of the American Chemical Society</i> , 1998, 120, 9787-9792.	13.7	648
5	Observation of Hybridization and Dehybridization of Thiol-Tethered DNA Using Two-Color Surface Plasmon Resonance Spectroscopy. <i>Journal of the American Chemical Society</i> , 1997, 119, 3401-3402.	13.7	469
6	Base-Dependent Competitive Adsorption of Single-Stranded DNA on Gold. <i>Journal of the American Chemical Society</i> , 2003, 125, 9014-9015.	13.7	437
7	Quantitative Analysis and Characterization of DNA Immobilized on Gold. <i>Journal of the American Chemical Society</i> , 2003, 125, 5219-5226.	13.7	377
8	UV photopatterning of alkanethiolate monolayers self-assembled on gold and silver. <i>Journal of the American Chemical Society</i> , 1993, 115, 5305-5306.	13.7	353
9	Independent control of grafting density and conformation of single-stranded DNA brushes. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 9-14.	7.1	204
10	Quantitative Characterization of DNA Films by X-ray Photoelectron Spectroscopy. <i>Langmuir</i> , 2004, 20, 429-440.	3.5	185
11	Static secondary ion mass spectrometry of self-assembled alkanethiol monolayers on gold. <i>Langmuir</i> , 1992, 8, 1398-1405.	3.5	163
12	Nucleobase Orientation and Ordering in Films of Single-Stranded DNA on Gold. <i>Journal of the American Chemical Society</i> , 2006, 128, 2-3.	13.7	153
13	Alkanethiols on Platinum: Multicomponent Self-Assembled Monolayers. <i>Langmuir</i> , 2006, 22, 2578-2587.	3.5	113
14	Determination of protein aggregation with differential mobility analysis: Application to IgG antibody. <i>Biotechnology and Bioengineering</i> , 2008, 101, 1214-1222.	3.3	113
15	Electrochemical study of chitosan films deposited from solution at reducing potentials. <i>Electrochimica Acta</i> , 2006, 51, 5324-5333.	5.2	109
16	Quantitative characterization of virus-like particles by asymmetrical flow field flow fractionation, electrospray differential mobility analysis, and transmission electron microscopy. <i>Biotechnology and Bioengineering</i> , 2009, 102, 845-855.	3.3	104
17	Immobilization of DNA Hydrogel Plugs in Microfluidic Channels. <i>Analytical Chemistry</i> , 2002, 74, 1436-1441.	6.5	102
18	Electrostatic Interactions of Redox Cations with Surface-Immobilized and Solution DNA. <i>Bioconjugate Chemistry</i> , 1999, 10, 419-423.	3.6	98

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19	Electrosprayâ€“differential mobility analysis of bionanoparticles. Trends in Biotechnology, 2012, 30, 291-300.	9.3	80
20	Detection of Viable <i>Cryptosporidium parvum</i> Using DNA-Modified Liposomes in a Microfluidic Chip. Analytical Chemistry, 2001, 73, 2952-2958.	6.5	79
21	Surface plasmon microscopy of biotin-streptavidin binding reactions on UV-photopatterned alkanethiol self-assembled monolayers. Supramolecular Science, 1995, 2, 99-106.	0.7	63
22	Quantifying the Surface Coverage of Conjugate Molecules on Functionalized Nanoparticles. Journal of Physical Chemistry C, 2007, 111, 17155-17157.	3.1	62
23	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
24	Selective Binding of RNase B Glycoforms by Polydopamine-Immobilized Concanavalin A. Analytical Chemistry, 2009, 81, 5413-5420.	6.5	57
25	Effect of Surface Wettability on Fast Transient Microboiling Behavior. Langmuir, 2003, 19, 6168-6177.	3.5	53
26	Atmospheric pressure microplasmas for modifying sealed microfluidic devices. Applied Physics Letters, 2004, 84, 1668-1670.	3.3	53
27	Probing the Nucleus Model for Oligomer Formation during Insulin Amyloid Fibrillogenesis. Biophysical Journal, 2010, 99, 3979-3985.	0.5	53
28	Characterization of Gold Nanoparticles Modified with Single-Stranded DNA Using Analytical Ultracentrifugation and Dynamic Light Scattering. Langmuir, 2010, 26, 12740-12747.	3.5	47
29	DNA Hybridization Assays Using Temperature Gradient Focusing and Peptide Nucleic Acids. Journal of the American Chemical Society, 2004, 126, 13474-13479.	13.7	42
30	Length Distribution of Singleâ€“Walled Carbon Nanotubes in Aqueous Suspension Measured by Electrospray Differential Mobility Analysis. Small, 2009, 5, 2894-2901.	10.0	40
31	Method for Determining the Absolute Number Concentration of Nanoparticles from Electrospray Sources. Langmuir, 2011, 27, 14732-14739.	3.5	39
32	Packing and Size Determination of Colloidal Nanoclusters. Langmuir, 2010, 26, 11384-11390.	3.5	37
33	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
34	Quantification and Compensation of Nonspecific Analyte Aggregation in Electrospray Sampling. Aerosol Science and Technology, 2011, 45, 849-860.	3.1	34
35	UV Craft Polymerization of Polyacrylamide Hydrogel Plugs in Microfluidic Channels. Langmuir, 2003, 19, 6901-6904.	3.5	33
36	DNA Displacement Assay Integrated into Microfluidic Channels. Analytical Chemistry, 2004, 76, 3655-3659.	6.5	30

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37	Adsorption Behavior of DNA-Wrapped Carbon Nanotubes on Self-Assembled Monolayer Surfaces. <i>Langmuir</i> , 2007, 23, 6252-6256.	3.5	27
38	Physical Characterization of Icosahedral Virus Ultra Structure, Stability, and Integrity Using Electrospray Differential Mobility Analysis. <i>Analytical Chemistry</i> , 2011, 83, 1753-1759.	6.5	26
39	Quantifying Ligand Adsorption to Nanoparticles Using Tandem Differential Mobility Mass Analysis. <i>Analytical Chemistry</i> , 2012, 84, 6308-6311.	6.5	26
40	New technique for visualizing microboiling phenomena and its application to water pulse heated by a thin metal film. <i>Review of Scientific Instruments</i> , 2006, 77, 063706.	1.3	23
41	Evaluation of electrospray differential mobility analysis for virus particle analysis: Potential applications for biomanufacturing. <i>Journal of Virological Methods</i> , 2011, 178, 201-208.	2.1	21
42	Synthesis and Structural Characterization of Glucopyranosylamide Films on Gold. <i>Langmuir</i> , 2007, 23, 700-707.	3.5	18
43	A consensus rating method for small virus-retentive filters. I. Method development. <i>PDA Journal of Pharmaceutical Science and Technology</i> , 2008, 62, 318-33.	0.5	17
44	Surface characterization of radio frequency water plasma treated and annealed polycrystalline tin oxide thin films. <i>Chemistry of Materials</i> , 1990, 2, 49-60.	6.7	14
45	Absolute Quantification Method for Protein Concentration. <i>Analytical Chemistry</i> , 2014, 86, 12130-12137.	6.5	13
46	Protein adsorption-desorption on electrospray capillary walls - No influence on aggregate distribution. <i>Journal of Colloid and Interface Science</i> , 2012, 377, 476-484.	9.4	11
47	Static SIMS and XPS study of water plasma exposed tin oxide films. <i>Applied Surface Science</i> , 1993, 64, 115-125.	6.1	9
48	Electrospray-Differential Mobility Analysis as an Orthogonal Tool to Size-Exclusion Chromatography for Characterization of Protein Aggregates. <i>Journal of Pharmaceutical Sciences</i> , 2012, 101, 1985-1994.	3.3	9
49	Characterizing the Adsorption of Proteins on Glass Capillary Surfaces Using Electrospray-Differential Mobility Analysis. <i>Langmuir</i> , 2011, 27, 13008-13014.	3.5	8
50	Adsorption of metal cations from aqueous solution onto tin oxide thin films. <i>Journal of Vacuum Science and Technology A: Vacuum, Surfaces and Films</i> , 1987, 5, 941-943.	2.1	7
51	Hydrogel-Immobilized Antibodies for Microfluidic Immunoassays: <I>Hydrogel Immunoassay</I>. , 2006, 321, 83-96.		4
52	Competitive adsorption-desorption of IgM monomers-dimers on silica and modified silica surfaces. <i>Journal of Colloid and Interface Science</i> , 2013, 402, 291-299.	9.4	2
53	Proper credit. <i>Nature Biotechnology</i> , 1994, 12, 745-745.	17.5	0