

Fredrik HÅGÅK

List of Publications by Year in descending order

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178
papers

12,586
citations

31902

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26548

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185
docs citations

185
times ranked

11192
citing authors

#	ARTICLE	IF	CITATIONS
1	Versailles project on advanced materials and standards (VAMAS) interlaboratory study on measuring the number concentration of colloidal gold nanoparticles. <i>Nanoscale</i> , 2022, 14, 4690-4704.	2.8	15
2	Dissimilar Deformation of Fluid- and Gel-Phase Liposomes upon Multivalent Interaction with Cell Membrane Mimics Revealed Using Dual-Wavelength Surface Plasmon Resonance. <i>Langmuir</i> , 2022, 38, 2550-2560.	1.6	7
3	TIRF Microscopy-Based Monitoring of Drug Permeation Across a Lipid Membrane Supported on Mesoporous Silica. <i>Angewandte Chemie</i> , 2021, 133, 2097-2101.	1.6	6
4	A vaccine combination of lipid nanoparticles and a cholera toxin adjuvant derivative greatly improves lung protection against influenza virus infection. <i>Mucosal Immunology</i> , 2021, 14, 523-536.	2.7	22
5	TIRF Microscopy-Based Monitoring of Drug Permeation Across a Lipid Membrane Supported on Mesoporous Silica. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 2069-2073.	7.2	7
6	Fluorescence Signal Enhancement in Antibody Microarrays Using Lightguiding Nanowires. <i>Nanomaterials</i> , 2021, 11, 227.	1.9	8
7	Fast and Accurate Nanoparticle Characterization Using Deep-Learning-Enhanced Off-Axis Holography. <i>ACS Nano</i> , 2021, 15, 2240-2250.	7.3	28
8	Control of Polymer Brush Morphology, Rheology, and Protein Repulsion by Hydrogen Bond Complexation. <i>Langmuir</i> , 2021, 37, 4943-4952.	1.6	11
9	Formation of Supported Lipid Bilayers Derived from Vesicles of Various Compositional Complexity on Conducting Polymer/Silica Substrates. <i>Langmuir</i> , 2021, 37, 5494-5505.	1.6	6
10	Time-Resolved and Label-Free Evanescent Light-Scattering Microscopy for Mass Quantification of Protein Binding to Single Lipid Vesicles. <i>Nano Letters</i> , 2021, 21, 4622-4628.	4.5	9
11	Diffusion of Lipid Nanovesicles Bound to a Lipid Membrane Is Associated with the Partial-Slip Boundary Condition. <i>Nano Letters</i> , 2021, 21, 8503-8509.	4.5	5
12	Investigation of Self-Emulsifying Drug-Delivery System Interaction with a Biomimetic Membrane under Conditions Relevant to the Small Intestine. <i>Langmuir</i> , 2021, 37, 10200-10213.	1.6	8
13	Physicochemical tools for studying virus interactions with targeted cell membranes in a molecular and spatiotemporally resolved context. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 7157-7178.	1.9	11
14	Determination of Nanosized Adsorbate Mass in Solution Using Mechanical Resonators: Elimination of the So Far Inseparable Liquid Contribution. <i>Journal of Physical Chemistry C</i> , 2021, 125, 22733-22746.	1.5	9
15	Simultaneous, Single-Particle Measurements of Size and Loading Give Insights into the Structure of Drug-Delivery Nanoparticles. <i>ACS Nano</i> , 2021, 15, 19244-19255.	7.3	23
16	Size and Refractive Index Determination of Subwavelength Particles and Air Bubbles by Holographic Nanoparticle Tracking Analysis. <i>Analytical Chemistry</i> , 2020, 92, 1908-1915.	3.2	32
17	Single-molecule biosensors: Recent advances and applications. <i>Biosensors and Bioelectronics</i> , 2020, 151, 111944.	5.3	95
18	Influence of Bile Composition on Membrane Incorporation of Transient Permeability Enhancers. <i>Molecular Pharmaceutics</i> , 2020, 17, 4226-4240.	2.3	24

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19	Independent Size and Fluorescence Emission Determination of Individual Biological Nanoparticles Reveals that Lipophilic Dye Incorporation Does Not Scale with Particle Size. <i>Langmuir</i> , 2020, 36, 9693-9700.	1.6	6
20	Enhancing the Cellular Uptake and Antibacterial Activity of Rifampicin through Encapsulation in Mesoporous Silica Nanoparticles. <i>Nanomaterials</i> , 2020, 10, 815.	1.9	24
21	Single-vesicle imaging reveals lipid-selective and stepwise membrane disruption by monomeric I α -synuclein. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 14178-14186.	3.3	49
22	Single-Molecule Detection with Lightguiding Nanowires: Determination of Protein Concentration and Diffusivity in Supported Lipid Bilayers. <i>Nano Letters</i> , 2019, 19, 6182-6191.	4.5	11
23	Avidity-Based Affinity Enhancement Using Nanoliposome-Amplified SPR Sensing Enables Low Picomolar Detection of Biologically Active Neuregulin 1. <i>ACS Sensors</i> , 2019, 4, 3166-3174.	4.0	6
24	Gel Phase 1,2-Distearoyl-sn-glycero-3-phosphocholine-Based Liposomes Are Superior to Fluid Phase Liposomes at Augmenting Both Antigen Presentation on Major Histocompatibility Complex Class II and Costimulatory Molecule Display by Dendritic Cells in Vitro. <i>ACS Infectious Diseases</i> , 2019, 5, 1867-1878.	1.8	7
25	Competition for Membrane Receptors: Norovirus Detachment via Lectin Attachment. <i>Journal of the American Chemical Society</i> , 2019, 141, 16303-16311.	6.6	18
26	Label-free spatio-temporal monitoring of cytosolic mass, osmolarity, and volume in living cells. <i>Nature Communications</i> , 2019, 10, 340.	5.8	25
27	Hybrid vesicles as intracellular reactive oxygen species and nitric oxide generators. <i>Nanoscale</i> , 2019, 11, 11530-11541.	2.8	18
28	Quantitative Detection of Biological Nanoparticles in Solution via Their Mediation of Colocalization of Fluorescent Liposomes. <i>Physical Review Applied</i> , 2019, 12, .	1.5	1
29	Charged Polystyrene Nanoparticles Near a SiO ₂ /Water Interface. <i>Langmuir</i> , 2019, 35, 222-228.	1.6	7
30	Pentacyclic adenine: a versatile and exceptionally bright fluorescent DNA base analogue. <i>Chemical Science</i> , 2018, 9, 3494-3502.	3.7	34
31	Nanomaterial interactions with biomembranes: Bridging the gap between soft matter models and biological context. <i>Biointerphases</i> , 2018, 13, 028501.	0.6	23
32	Membrane Deformation Induces Clustering of Norovirus Bound to Glycosphingolipids in a Supported Cell-Membrane Mimic. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 2278-2284.	2.1	12
33	Sticking particles to solid surfaces using <i>Moringa oleifera</i> proteins as a glue. <i>Colloids and Surfaces B: Biointerfaces</i> , 2018, 168, 68-75.	2.5	6
34	Nanometer-scale molecular organization in lipid membranes studied by time-of-flight secondary ion mass spectrometry. <i>Biointerphases</i> , 2018, 13, 03B408.	0.6	4
35	Toward multiplexed quantification of biomolecules on surfaces using time-of-flight secondary ion mass spectrometry. <i>Biointerphases</i> , 2018, 13, 03B413.	0.6	4
36	Antenna-Enhanced Fluorescence Correlation Spectroscopy Resolves Calcium-Mediated Lipid-Lipid Interactions. <i>ACS Nano</i> , 2018, 12, 3272-3279.	7.3	3

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37	Affinity Purification and Single-Molecule Analysis of Integral Membrane Proteins from Crude Cell-Membrane Preparations. <i>Nano Letters</i> , 2018, 18, 381-385.	4.5	12
38	MicroRNA Detection by DNA-Mediated Liposome Fusion. <i>ChemBioChem</i> , 2018, 19, 434-438.	1.3	35
39	Structure and Composition of Native Membrane Derived Polymer-Supported Lipid Bilayers. <i>Analytical Chemistry</i> , 2018, 90, 13065-13072.	3.2	20
40	Low-temperature fabrication and characterization of a symmetric hybrid organic-inorganic slab waveguide for evanescent light microscopy. <i>Nano Futures</i> , 2018, 2, 025007.	1.0	7
41	Bioinspired, nanoscale approaches in contemporary bioanalytics (Review). <i>Biointerphases</i> , 2018, 13, 040801.	0.6	12
42	Spatiotemporal Kinetics of Supported Lipid Bilayer Formation on Glass via Vesicle Adsorption and Rupture. <i>Journal of Physical Chemistry Letters</i> , 2018, 9, 5143-5149.	2.1	20
43	Effective Refractive Index and Lipid Content of Extracellular Vesicles Revealed Using Optical Waveguide Scattering and Fluorescence Microscopy. <i>Langmuir</i> , 2018, 34, 8522-8531.	1.6	22
44	Single Proteoliposomes with <i>E. coli</i> Quinol Oxidase: Proton Pumping without Transmembrane Leaks. <i>Israel Journal of Chemistry</i> , 2017, 57, 437-445.	1.0	11
45	Detachment of Membrane Bound Virions by Competitive Ligand Binding Induced Receptor Depletion. <i>Langmuir</i> , 2017, 33, 4049-4056.	1.6	18
46	Histo-Blood Group Antigen Presentation Is Critical for Binding of Norovirus VLP to Glycosphingolipids in Model Membranes. <i>ACS Chemical Biology</i> , 2017, 12, 1288-1296.	1.6	22
47	Protein-Containing Lipid Bilayers Intercalated with Size-Matched Mesoporous Silica Thin Films. <i>Nano Letters</i> , 2017, 17, 476-485.	4.5	22
48	Mucosal Vaccine Development Based on Liposome Technology. <i>Journal of Immunology Research</i> , 2016, 2016, 1-16.	0.9	84
49	Imaging of amyloid- β^2 in Alzheimer's disease transgenic mouse brains with ToF-SIMS using immunoliposomes. <i>Biointerphases</i> , 2016, 11, 02A312.	0.6	15
50	Hydrodynamic Propulsion of Liposomes Electrostatically Attracted to a Lipid Membrane Reveals Size-Dependent Conformational Changes. <i>ACS Nano</i> , 2016, 10, 8812-8820.	7.3	12
51	Kinetics of enzyme-mediated hydrolysis of lipid vesicles. <i>Chemical Physics Letters</i> , 2016, 663, 51-56.	1.2	1
52	Dual-Wavelength Surface Plasmon Resonance for Determining the Size and Concentration of Sub-Populations of Extracellular Vesicles. <i>Analytical Chemistry</i> , 2016, 88, 9980-9988.	3.2	70
53	Affinity Capturing and Surface Enrichment of a Membrane Protein Embedded in a Continuous Supported Lipid Bilayer. <i>ChemistryOpen</i> , 2016, 5, 445-449.	0.9	6
54	Nonspecific Colloidal-Type Interaction Explains Size-Dependent Specific Binding of Membrane-Targeted Nanoparticles. <i>ACS Nano</i> , 2016, 10, 9974-9982.	7.3	21

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55	Two-dimensional flow nanometry of biological nanoparticles for accurate determination of their size and emission intensity. <i>Nature Communications</i> , 2016, 7, 12956.	5.8	34
56	Quantification of Multivalent Interactions by Tracking Single Biological Nanoparticle Mobility on a Lipid Membrane. <i>Nano Letters</i> , 2016, 16, 4382-4390.	4.5	58
57	Supported lipid bilayer repair mediated by AH peptide. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 3040-3047.	1.3	14
58	Total internal reflection fluorescence microscopy for determination of size of individual immobilized vesicles: Theory and experiment. <i>Journal of Applied Physics</i> , 2015, 118, .	1.1	21
59	Neutralized Chimeric Avidin Binding at a Reference Biosensor Surface. <i>Langmuir</i> , 2015, 31, 1921-1930.	1.6	23
60	Design of Surface Modifications for Nanoscale Sensor Applications. <i>Sensors</i> , 2015, 15, 1635-1675.	2.1	88
61	Strongly Stretched Protein Resistant Poly(ethylene glycol) Brushes Prepared by Grafting-To. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 7505-7515.	4.0	142
62	Drug Discovery at the Single Molecule Level: Inhibition-in-Solution Assay of Membrane-Reconstituted β -Secretase Using Single-Molecule Imaging. <i>Analytical Chemistry</i> , 2015, 87, 4100-4103.	3.2	23
63	Diffusion-limited attachment of large spherical particles to flexible membrane-immobilized receptors. <i>European Biophysics Journal</i> , 2015, 44, 219-226.	1.2	10
64	Interaction of Virus-Like Particles with Vesicles Containing Glycolipids: Kinetics of Detachment. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11466-11472.	1.2	18
65	Preserved Transmembrane Protein Mobility in Polymer-Supported Lipid Bilayers Derived from Cell Membranes. <i>Analytical Chemistry</i> , 2015, 87, 9194-9203.	3.2	74
66	Equilibrium-Fluctuation Analysis for Interaction Studies between Natural Ligands and Single G Protein-Coupled Receptors in Native Lipid Vesicles. <i>Langmuir</i> , 2015, 31, 10774-10780.	1.6	8
67	Evanescent Light-Scattering Microscopy for Label-Free Interfacial Imaging: From Single Sub-100 nm Vesicles to Live Cells. <i>ACS Nano</i> , 2015, 9, 11849-11862.	7.3	65
68	Influence of the Evanescent Field Decay Length on the Sensitivity of Plasmonic Nanodisks and Nanoholes. <i>ACS Photonics</i> , 2015, 2, 256-262.	3.2	94
69	Hydrolysis of a Lipid Membrane by Single Enzyme Molecules: Accurate Determination of Kinetic Parameters. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 1022-1026.	7.2	20
70	Assembly of RNA nanostructures on supported lipid bilayers. <i>Nanoscale</i> , 2015, 7, 583-596.	2.8	20
71	2014, 2, 555-555.	3.6	0
72	Plasmon-enhanced four-wave mixing by nanoholes in thin gold films. <i>Optics Letters</i> , 2014, 39, 1001.	1.7	9

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73	Determination of Exosome Concentration in Solution Using Surface Plasmon Resonance Spectroscopy. <i>Analytical Chemistry</i> , 2014, 86, 5929-5936.	3.2	133
74	Label-Free Measurements of the Diffusivity of Molecules in Lipid Membranes. <i>ChemPhysChem</i> , 2014, 15, 486-491.	1.0	12
75	Simultaneous Imaging of Amyloid- β^2 and Lipids in Brain Tissue Using Antibody-Coupled Liposomes and Time-of-Flight Secondary Ion Mass Spectrometry. <i>Journal of the American Chemical Society</i> , 2014, 136, 9973-9981.	6.6	37
76	Plasmonic Nanopores in Metal-Insulator-Metal Films. <i>Advanced Optical Materials</i> , 2014, 2, 556-564.	3.6	38
77	A virus biosensor with single virus-particle sensitivity based on fluorescent vesicle labels and equilibrium fluctuation analysis. <i>Biointerphases</i> , 2013, 8, 4.	0.6	14
78	Hydrodynamic separation of proteins in supported lipid bilayers confined by gold barriers. <i>Soft Matter</i> , 2013, 9, 9414.	1.2	5
79	Promises and challenges of nanoplasmonic devices for refractometric biosensing. <i>Nanophotonics</i> , 2013, 2, 83-101.	2.9	83
80	Single Lipid Vesicle Assay for Characterizing Single-Enzyme Kinetics of Phospholipid Hydrolysis in a Complex Biological Fluid. <i>Journal of the American Chemical Society</i> , 2013, 135, 14151-14158.	6.6	30
81	Equilibrium-fluctuation-analysis of single liposome binding events reveals how cholesterol and Ca ²⁺ modulate glycosphingolipid trans-interactions. <i>Scientific Reports</i> , 2013, 3, 1452.	1.6	25
82	High throughput fabrication of plasmonic nanostructures in nanofluidic pores for biosensing applications. <i>Nanotechnology</i> , 2012, 23, 415304.	1.3	15
83	A functioning artificial secretory cell. <i>Scientific Reports</i> , 2012, 2, 824.	1.6	16
84	Kinetics of the enzyme-vesicle interaction including the formation of rafts and membrane strain. <i>Biophysical Chemistry</i> , 2012, 170, 17-24.	1.5	19
85	Norovirus GII.4 Virus-like Particles Recognize Galactosylceramides in Domains of Planar Supported Lipid Bilayers. <i>Angewandte Chemie - International Edition</i> , 2012, 51, 12020-12024.	7.2	31
86	Material-Selective Surface Chemistry for Nanoplasmonic Sensors: Optimizing Sensitivity and Controlling Binding to Local Hot Spots. <i>Nano Letters</i> , 2012, 12, 873-879.	4.5	65
87	Single Vesicle Analysis Reveals Nanoscale Membrane Curvature Selective Pore Formation in Lipid Membranes by an Antiviral β -Helical Peptide. <i>Nano Letters</i> , 2012, 12, 5719-5725.	4.5	56
88	Formation and Diffusivity Characterization of Supported Lipid Bilayers with Complex Lipid Compositions. <i>Langmuir</i> , 2012, 28, 10528-10533.	1.6	19
89	Time-Resolved Surface-Enhanced Ellipsometric Contrast Imaging for Label-Free Analysis of Biomolecular Recognition Reactions on Glycolipid Domains. <i>Analytical Chemistry</i> , 2012, 84, 6538-6545.	3.2	14
90	Nanoplasmonic Sensing Combined with Artificial Cell Membranes. , 2012, , 59-82.		6

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91	Solute transport on the sub 100 ms scale across the lipid bilayer membrane of individual proteoliposomes. Lab on A Chip, 2012, 12, 4635.	3.1	15
92	Phase transitions in adsorbed lipid vesicles measured using a quartz crystal microbalance with dissipation monitoring. Soft Matter, 2011, 7, 10749.	1.2	39
93	Continuous Lipid Bilayers Derived from Cell Membranes for Spatial Molecular Manipulation. Journal of the American Chemical Society, 2011, 133, 14027-14032.	6.6	33
94	Accumulation and Separation of Membrane-Bound Proteins Using Hydrodynamic Forces. Analytical Chemistry, 2011, 83, 604-611.	3.2	41
95	Resonance-Mode Electrochemical Impedance Measurements of Silicon Dioxide Supported Lipid Bilayer Formation and Ion Channel Mediated Charge Transport. Analytical Chemistry, 2011, 83, 7800-7806.	3.2	13
96	Effects of Surface Pressure and Internal Friction on the Dynamics of Shear-Driven Supported Lipid Bilayers. Langmuir, 2011, 27, 1430-1439.	1.6	8
97	Kinetics of Ligand Binding to Membrane Receptors from Equilibrium Fluctuation Analysis of Single Binding Events. Journal of the American Chemical Society, 2011, 133, 14852-14855.	6.6	27
98	Simulation of dissociation of DNA duplexes attached to the surface. Open Physics, 2010, 8, .	0.8	2
99	DNA Binding to Zwitterionic Model Membranes. Langmuir, 2010, 26, 4965-4976.	1.6	49
100	Locally Functionalized Short-Range Ordered Nanoplasmonic Pores for Bioanalytical Sensing. Analytical Chemistry, 2010, 82, 2087-2094.	3.2	105
101	Site-Specific DNA-Controlled Fusion of Single Lipid Vesicles to Supported Lipid Bilayers. ChemPhysChem, 2010, 11, 1011-1017.	1.0	33
102	Inside Cover: Site-Specific DNA-Controlled Fusion of Single Lipid Vesicles to Supported Lipid Bilayers (ChemPhysChem 5/2010). ChemPhysChem, 2010, 11, 926-926.	1.0	1
103	Nanoplasmonic biosensing with on-chip electrical detection. Biosensors and Bioelectronics, 2010, 26, 1131-1136.	5.3	37
104	Quartz crystal microbalance with dissipation monitoring of supported lipid bilayers on various substrates. Nature Protocols, 2010, 5, 1096-1106.	5.5	471
105	Liposome-Based Chemical Barcodes for Single Molecule DNA Detection Using Imaging Mass Spectrometry. Nano Letters, 2010, 10, 732-737.	4.5	46
106	High-Performance Biosensing Using Arrays of Plasmonic Nanotubes. ACS Nano, 2010, 4, 2210-2216.	7.3	140
107	Investigation of Adsorption and Cross-Linking of a Mussel Adhesive Protein Using Attenuated Total Internal Reflection Fourier Transform Infrared Spectroscopy (ATR-FTIR). Journal of Adhesion, 2010, 86, 25-38.	1.8	22
108	Separation of Bulk Effects and Bound Mass during Adsorption of Surfactants Probed by Quartz Crystal Microbalance with Dissipation: Insight into Data Interpretation. Analytical Chemistry, 2010, 82, 9116-9121.	3.2	27

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109	Refractive-Index-Based Screening of Membrane-Protein-Mediated Transfer across Biological Membranes. <i>Biophysical Journal</i> , 2010, 99, 124-133.	0.2	35
110	Sealing of Submicrometer Wells by a Shear-Driven Lipid Bilayer. <i>Nano Letters</i> , 2010, 10, 1900-1906.	4.5	42
111	Spatial-Resolution Limits in Mass Spectrometry Imaging of Supported Lipid Bilayers and Individual Lipid Vesicles. <i>Analytical Chemistry</i> , 2010, 82, 2426-2433.	3.2	42
112	Heavy Meromyosin Molecules Extending More Than 50 nm above Adsorbing Electronegative Surfaces. <i>Langmuir</i> , 2010, 26, 9927-9936.	1.6	43
113	Improving the Limit of Detection of Nanoscale Sensors by Directed Binding to High-Sensitivity Areas. <i>ACS Nano</i> , 2010, 4, 2167-2177.	7.3	112
114	Molecular motors on lipid bilayers and silicon dioxide: different driving forces for adsorption. <i>Soft Matter</i> , 2010, 6, 3211.	1.2	18
115	Rupture Pathway of Phosphatidylcholine Liposomes on Silicon Dioxide. <i>International Journal of Molecular Sciences</i> , 2009, 10, 1683-1696.	1.8	60
116	Kinetic and thermodynamic characterization of single-mismatch discrimination using single-molecule imaging. <i>Nucleic Acids Research</i> , 2009, 37, e99-e99.	6.5	29
117	QCM-D studies of human norovirus VLPs binding to glycosphingolipids in supported lipid bilayers reveal strain-specific characteristics. <i>Glycobiology</i> , 2009, 19, 1176-1184.	1.3	53
118	Alpha-Helical Peptide-Induced Vesicle Rupture Revealing New Insight into the Vesicle Fusion Process As Monitored <i>in Situ</i> by Quartz Crystal Microbalance-Dissipation and Reflectometry. <i>Analytical Chemistry</i> , 2009, 81, 4752-4761.	3.2	45
119	Self-assembly formation of multiple DNA-tethered lipid bilayers. <i>Journal of Structural Biology</i> , 2009, 168, 200-206.	1.3	39
120	Shear-Driven Motion of Supported Lipid Bilayers in Microfluidic Channels. <i>Journal of the American Chemical Society</i> , 2009, 131, 5294-5297.	6.6	54
121	High-Resolution Microspectroscopy of Plasmonic Nanostructures for Miniaturized Biosensing. <i>Analytical Chemistry</i> , 2009, 81, 6572-6580.	3.2	80
122	Mechanical Behavior of a Supported Lipid Bilayer under External Shear Forces. <i>Langmuir</i> , 2009, 25, 6279-6286.	1.6	47
123	Individual Nanometer Hole Particle Pairs for Surface-Enhanced Raman Scattering. <i>Small</i> , 2008, 4, 1296-1300.	5.2	78
124	Label-Free Measurements of Molecular Transport across Liposome Membranes using Evanescent-Wave Sensing. <i>ChemPhysChem</i> , 2008, 9, 2480-2485.	1.0	21
125	Specific Self-Assembly of Single Lipid Vesicles in Nanoplasmonic Apertures in Gold. <i>Advanced Materials</i> , 2008, 20, 1436-1442.	11.1	61
126	A Method Improving the Accuracy of Fluorescence Recovery after Photobleaching Analysis. <i>Biophysical Journal</i> , 2008, 95, 5334-5348.	0.2	204

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127	Addressable adsorption of lipid vesicles and subsequent protein interaction studies. <i>Biointerphases</i> , 2008, 3, 29-37.	0.6	11
128	Supported lipid bilayers, tethered lipid vesicles, and vesicle fusion investigated using gravimetric, plasmonic, and microscopy techniques. <i>Biointerphases</i> , 2008, 3, FA108-FA116.	0.6	23
129	Nanoplasmonic biosensing with focus on short-range ordered nanoholes in thin metal films (Review). <i>Biointerphases</i> , 2008, 3, FD30-FD40.	0.6	66
130	Synchronized Quartz Crystal Microbalance and Nanoplasmonic Sensing of Biomolecular Recognition Reactions. <i>ACS Nano</i> , 2008, 2, 2174-2182.	7.3	61
131	Adsorption of cubic liquid crystalline nanoparticles on model membranes. <i>Soft Matter</i> , 2008, 4, 2267.	1.2	56
132	Determinants for Membrane Fusion Induced by Cholesterol-Modified DNA Zippers. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8264-8274.	1.2	112
133	Single-Molecule Detection and Mismatch Discrimination of Unlabeled DNA Targets. <i>Nano Letters</i> , 2008, 8, 183-188.	4.5	95
134	Simultaneous Nanoplasmonic and Quartz Crystal Microbalance Sensing: Analysis of Biomolecular Conformational Changes and Quantification of the Bound Molecular Mass. <i>Analytical Chemistry</i> , 2008, 80, 7988-7995.	3.2	77
135	Label-Free Plasmonic Detection of Biomolecular Binding by a Single Gold Nanorod. <i>Analytical Chemistry</i> , 2008, 80, 984-989.	3.2	271
136	DNA-Induced Programmable Fusion of Phospholipid Vesicles. <i>Journal of the American Chemical Society</i> , 2007, 129, 9584-9585.	6.6	267
137	Supported Lipid Bilayer Formation and Lipid-Membrane-Mediated Biorecognition Reactions Studied with a New Nanoplasmonic Sensor Template. <i>Nano Letters</i> , 2007, 7, 3462-3468.	4.5	139
138	Structural Effects in the Analysis of Supported Lipid Bilayers by Time-of-Flight Secondary Ion Mass Spectrometry. <i>Langmuir</i> , 2007, 23, 8035-8041.	1.6	41
139	Quantitative interpretation of gold nanoparticle-based bioassays designed for detection of immunocomplex formation. <i>Biointerphases</i> , 2007, 2, 6-15.	0.6	19
140	Generic surface modification strategy for sensing applications based on Au/SiO ₂ nanostructures. <i>Biointerphases</i> , 2007, 2, 49-55.	0.6	40
141	Characterization of a proton pumping transmembrane protein incorporated into a supported three-dimensional matrix of proteoliposomes. <i>Analytical Biochemistry</i> , 2007, 367, 87-94.	1.1	17
142	Controlled Radial Distribution of Nanoscale Vesicles During Binding to an Oscillating QCM Surface. <i>Small</i> , 2007, 3, 585-589.	5.2	8
143	Light-regulated release of liposomes from phospholipid membranes via photoresponsive polymer-DNA conjugates. <i>Soft Matter</i> , 2006, 2, 710-715.	1.2	16
144	Quantification of Oligonucleotide Modifications of Small Unilamellar Lipid Vesicles. <i>Analytical Chemistry</i> , 2006, 78, 7493-7498.	3.2	22

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145	Investigation of binding event perturbations caused by elevated QCM-D oscillation amplitude. <i>Analyst, The</i> , 2006, 131, 822-828.	1.7	26
146	Use of PLL-g-PEG in Micro-Fluidic Devices for Localizing Selective and Specific Protein Binding. <i>Langmuir</i> , 2006, 22, 10103-10108.	1.6	62
147	Suppression of binding events via external perturbation with emphasis on QCM. <i>Chemical Physics Letters</i> , 2006, 424, 214-217.	1.2	4
148	Improving the Instrumental Resolution of Sensors Based on Localized Surface Plasmon Resonance. <i>Analytical Chemistry</i> , 2006, 78, 4416-4423.	3.2	305
149	Gravimetric antigen detection utilizing antibody-modified lipid bilayers. <i>Analytical Biochemistry</i> , 2005, 345, 72-80.	1.1	37
150	A Dual-Frequency QCM-D Setup Operating at Elevated Oscillation Amplitudes. <i>Analytical Chemistry</i> , 2005, 77, 4918-4926.	3.2	93
151	Localized Surface Plasmon Resonance Sensing of Lipid-Membrane-Mediated Biorecognition Events. <i>Journal of the American Chemical Society</i> , 2005, 127, 5043-5048.	6.6	272
152	Viscoelastic Modeling of Template-Directed DNA Synthesis. <i>Analytical Chemistry</i> , 2005, 77, 3709-3714.	3.2	60
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