

# Joel M Harris

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

222  
papers

6,276  
citations

45  
h-index

64  
g-index

229  
ext. papers

6,737  
ext. citations

6.5  
avg, IF

5.77  
L-index

#	Paper	IF	Citations
222	Confocal Raman Microscopy Enables Label-Free, Quantitative, and Structurally Informative Detection of DNA Hybridization at Porous Silica Surfaces. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 7978-7986	7.8	2
221	Vibrational Spectroscopic Monitoring of the Gelation Transition in Nafion Ionomer Dispersions. <i>Applied Spectroscopy</i> , <b>2021</b> , 75, 376-384	3.1	1
220	Lacritin proteoforms prevent tear film collapse and maintain epithelial homeostasis. <i>Journal of Biological Chemistry</i> , <b>2021</b> , 296, 100070	5.4	5
219	Hybrid-Lipid Bilayers Induce -Alkyl-Chain Order in Reversed-Phase Chromatographic Surfaces, Impacting their Shape Selectivity for Aromatic Hydrocarbon Partitioning. <i>Analytical Chemistry</i> , <b>2021</b> , 93, 4118-4125	7.8	0
218	Adapting confocal Raman microscopy for in situ studies of redox transformations at electrode-electrolyte interfaces. <i>Journal of Electroanalytical Chemistry</i> , <b>2021</b> , 896, 115207	4.1	1
217	Evaluating the effect of ionic strength on PNA:DNA duplex formation kinetics. <i>RSC Chemical Biology</i> , <b>2021</b> , 2, 1249-1256	3	2
216	Hybrid-Supported Bilayers Formed with Mixed-Charge Surfactants on C-Functionalized Silica Surfaces. <i>Langmuir</i> , <b>2020</b> , 36, 7609-7618	4	
215	Shot noise sets the limit of quantification in electrochemical measurements. <i>Current Opinion in Electrochemistry</i> , <b>2020</b> , 22, 170-177	7.2	14
214	Confocal Raman Microscopy Investigation of Phospholipid Monolayers Deposited on Nitrile-Modified Surfaces in Porous Silica Particles. <i>Langmuir</i> , <b>2020</b> , 36, 4071-4079	4	3
213	Single-Molecule Kinetics Show DNA Pyrimidine Content Strongly Affects RNA:DNA and TNA:DNA Heteroduplex Dissociation Rates. <i>ACS Synthetic Biology</i> , <b>2020</b> , 9, 249-253	5.7	4
212	Probing the Mechanism of Structure-Switching Aptamer Assembly by Super-Resolution Localization of Individual DNA Molecules. <i>Analytical Chemistry</i> , <b>2020</b> , 92, 6909-6917	7.8	2
211	Structural Elucidation of Bisulfite Adducts to Pseudouridine That Result in Deletion Signatures during Reverse Transcription of RNA. <i>Journal of the American Chemical Society</i> , <b>2019</b> , 141, 16450-16460	16.4	6
210	Confocal Raman Microscopy Investigation of Self-Assembly of Hybrid Phospholipid Bilayers within Individual Porous Silica Chromatographic Particles. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 7790-7797	7.8	2
209	Thermostability Trends of TNA:DNA Duplexes Reveal Strong Purine Dependence. <i>ACS Synthetic Biology</i> , <b>2019</b> , 8, 1144-1152	5.7	7
208	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , <b>2019</b> , 6, 241-245	3	13
207	Super-Resolution Imaging of Competitive Unlabeled DNA Hybridization Reveals the Influence of Fluorescent Labels on Duplex Formation and Dissociation Kinetics. <i>Journal of Physical Chemistry B</i> , <b>2019</b> , 123, 10746-10756	3.4	6
206	Infrared Microscopy as a Probe of Composition within a Model Biofuel Cell Electrode Prepared from <i>Trametes versicolor</i> Laccase. <i>ChemElectroChem</i> , <b>2019</b> , 6, 818-826	4.3	2

205	Single-Layer Graphene Sandwiched between Proton-Exchange Membranes for Selective Proton Transmission. <i>ACS Applied Nano Materials</i> , <b>2019</b> , 2, 964-974	5.6	19
204	Single Layer Graphene for Estimation of Axial Spatial Resolution in Confocal Raman Microscopy Depth Profiling. <i>Analytical Chemistry</i> , <b>2019</b> , 91, 1049-1055	7.8	14
203	Confocal-Raman Microscopy Characterization of Supported Phospholipid Bilayers Deposited on the Interior Surfaces of Chromatographic Silica. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 4071-4078	16.4	20
202	Selective Proton/Deuteron Transport through Nafion Graphene Nafion Sandwich Structures at High Current Density. <i>Journal of the American Chemical Society</i> , <b>2018</b> , 140, 1743-1752	16.4	35
201	Identification of Individual Immobilized DNA Molecules by Their Hybridization Kinetics Using Single-Molecule Fluorescence Imaging. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 5007-5014	7.8	13
200	Vibrational Spectroscopy for the Determination of Ionizable Group Content in Ionomer Materials. <i>Applied Spectroscopy</i> , <b>2018</b> , 72, 141-150	3.1	6
199	Single-Molecule Kinetic Investigation of Cocaine-Dependent Split-Aptamer Assembly. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 12964-12970	7.8	21
198	Confocal Raman Microscopy for Label-Free Detection of Protein-Ligand Binding at Nanopore-Supported Phospholipid Bilayers. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 11509-11516	7.8	6
197	Confocal Raman Microscopy for in Situ Measurement of Phospholipid-Water Partitioning into Model Phospholipid Bilayers within Individual Chromatographic Particles. <i>Analytical Chemistry</i> , <b>2018</b> , 90, 7048-7055	7.8	6
196	Raman Spectroscopy Reveals Selective Interactions of Cytochrome c with Cardiolipin That Correlate with Membrane Permeability. <i>Journal of the American Chemical Society</i> , <b>2017</b> , 139, 3851-3860	16.4	34
195	Confocal Raman Microscopy Investigation of Molecular Transport into Individual Chromatographic Silica Particles. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 2755-2763	7.8	8
194	Magnesium as a Novel UV Plasmonic Material for Fluorescence Decay Rate Engineering in Free Solution. <i>Journal of Physical Chemistry C</i> , <b>2017</b> , 121, 11650-11657	3.8	29
193	Confocal Raman Microscopy for the Determination of Protein and Quaternary Ammonium Ion Loadings in Biocatalytic Membranes for Electrochemical Energy Conversion and Storage. <i>Analytical Chemistry</i> , <b>2017</b> , 89, 13290-13298	7.8	6
192	Confocal Raman Microscopy of Hybrid-Supported Phospholipid Bilayers within Individual C18-Functionalized Chromatographic Particles. <i>Langmuir</i> , <b>2016</b> , 32, 9033-44	4	14
191	Calorimetry-Derived Composition Vectors to Resolve Component Raman Spectra in Phospholipid Phase Transitions. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 1165-75	3.1	11
190	Single-Molecule Fluorescence Imaging of Interfacial DNA Hybridization Kinetics at Selective Capture Surfaces. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 1345-54	7.8	36
189	Competitive Assays of Label-Free DNA Hybridization with Single-Molecule Fluorescence Imaging Detection. <i>Analytical Chemistry</i> , <b>2016</b> , 88, 6410-7	7.8	21
188	Spatially Multiplexed Imaging: Fluorescence Correlation Spectroscopy for Efficient Measurement of Molecular Diffusion at Solid-Liquid Interfaces. <i>Applied Spectroscopy</i> , <b>2016</b> , 70, 695-701	3.1	1

187	Confocal Raman Microscopy for in Situ Measurement of Octanol-Water Partitioning within the Pores of Individual C18-Functionalized Chromatographic Particles. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 5340-7	7.8	12
186	Confocal Raman Microscopy for pH-Gradient Preconcentration and Quantitative Analyte Detection in Optically Trapped Phospholipid Vesicles. <i>Analytical Chemistry</i> , <b>2015</b> , 87, 7979-86	7.8	9
185	Spatial filtering of a diode laser beam for confocal Raman microscopy. <i>Applied Spectroscopy</i> , <b>2015</b> , 69, 513-7	3.1	8
184	Super-Resolution Imaging and Quantitative Analysis of Membrane Protein/Lipid Raft Clustering Mediated by Cell-Surface Self-Assembly of Hybrid Nanoconjugates. <i>ChemBioChem</i> , <b>2015</b> , 16, 1725-9	3.8	24
183	Imaging fluorescence-correlation spectroscopy for measuring fast surface diffusion at liquid/solid interfaces. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 7618-26	7.8	27
182	Confocal Raman microscopy for in situ detection of solid-phase extraction of pyrene into single C18-silica particles. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 1719-25	7.8	20
181	Confocal Raman microscopy for investigating synthesis and characterization of individual optically trapped vinyl-polymerized surfactant particles. <i>Applied Spectroscopy</i> , <b>2014</b> , 68, 633-41	3.1	4
180	UV Fluorescence Lifetime Modification by Aluminum Nanoapertures. <i>ACS Photonics</i> , <b>2014</b> , 1, 1270-1277	6.3	29
179	Fluorescence-correlation spectroscopy study of molecular transport within reversed-phase chromatographic particles compared to planar model surfaces. <i>Analytical Chemistry</i> , <b>2014</b> , 86, 11766-72	7.8	18
178	Imaging fluorescent nanoparticles to probe photoinduced charging of a semiconductor-solution interface. <i>Langmuir</i> , <b>2013</b> , 29, 11941-9	4	2
177	Single-molecule fluorescence imaging of DNA at a potential-controlled interface. <i>Langmuir</i> , <b>2013</b> , 29, 8292-301	4	11
176	Fluorescence imaging of single-molecule retention trajectories in reversed-phase chromatographic particles. <i>Analytical Chemistry</i> , <b>2013</b> , 85, 9363-70	7.8	39
175	Surface-enhanced Raman spectroscopy detection of ionic solutes by surfactant-mediated adsorption to a hydrophobic surface. <i>Applied Spectroscopy</i> , <b>2013</b> , 67, 801-7	3.1	2
174	Microscopic rates of peptide-phospholipid bilayer interactions from single-molecule residence times. <i>Journal of the American Chemical Society</i> , <b>2012</b> , 134, 19652-60	16.4	23
173	Confocal Raman microscopy probing of temperature-controlled release from individual, optically-trapped phospholipid vesicles. <i>Analytical Chemistry</i> , <b>2012</b> , 84, 9505-12	7.8	23
172	Surface-enhanced Raman scattering study of the kinetics of self-assembly of carboxylate-terminated n-alkanethiols on silver. <i>Langmuir</i> , <b>2012</b> , 28, 2628-36	4	28
171	Confocal Raman microscopy for monitoring the membrane polymerization and thermochromism of individual, optically trapped diacetylenic phospholipid vesicles. <i>Journal of Raman Spectroscopy</i> , <b>2012</b> , 43, 351-359	2.3	9
170	Structural characterization of individual vesicles using fluorescence microscopy. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 4909-15	7.8	14

169	Confocal Raman microscopy of pH-gradient-based 10 000-fold preconcentration of compounds within individual, optically trapped phospholipid vesicles. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 6098-105	7.8	14
168	Spectroscopic microscopy analysis of the interior pH of individual phospholipid vesicles. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 8230-8	7.8	8
167	Surface-enhanced Raman spectroscopy investigation of the potential-dependent acid-base chemistry of silver-immobilized 2-mercaptobenzoic acid. <i>Langmuir</i> , <b>2011</b> , 27, 3527-33	4	32
166	Fluorescence microscopy of the pressure-dependent structure of lipid bilayers suspended across conical nanopores. <i>Journal of the American Chemical Society</i> , <b>2011</b> , 133, 7810-5	16.4	15
165	Single molecule tracking studies of lower critical solution temperature transition behavior in poly(N-isopropylacrylamide). <i>Langmuir</i> , <b>2011</b> , 27, 11037-43	4	23
164	Trajectory analysis of single molecules exhibiting non-brownian motion. <i>Physical Chemistry Chemical Physics</i> , <b>2011</b> , 13, 4326-34	3.6	50
163	Quantitative fluorescence microscopy to determine molecular occupancy of phospholipid vesicles. <i>Analytical Chemistry</i> , <b>2011</b> , 83, 5128-36	7.8	13
162	Quantitative detection of single molecules in fluorescence microscopy images. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 189-96	7.8	37
161	Confocal Raman microscopy of optical-trapped particles in liquids. <i>Annual Review of Analytical Chemistry</i> , <b>2010</b> , 3, 277-97	12.5	30
160	Quantitative confocal Raman microscopy study of ion-interaction retention at reversed-phase chromatographic interfaces. <i>Analytical Chemistry</i> , <b>2010</b> , 82, 5743-50	7.8	18
159	Identification of single fluorescent labels using spectroscopic microscopy. <i>Applied Spectroscopy</i> , <b>2010</b> , 64, 37-45	3.1	11
158	Confocal Raman microscopy for simultaneous monitoring of partitioning and disordering of tricyclic antidepressants in phospholipid vesicle membranes. <i>Journal of Raman Spectroscopy</i> , <b>2010</b> , 41, 498-507	2.3	36
157	Self-assembly of a triangle-shaped, hexaplatinum-incorporated, supramolecular amphiphile in solution and at interfaces. <i>Chemistry - A European Journal</i> , <b>2009</b> , 15, 8566-77	4.8	14
156	Single-molecule fluorescence imaging of peptide binding to supported lipid bilayers. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 5130-8	7.8	39
155	Biotin-avidin binding kinetics measured by single-molecule imaging. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 336-428	7.2	63
154	Confocal Raman microscopy of the interfacial regions of liquid chromatographic stationary-phase materials. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 2869-76	7.8	15
153	Confocal Raman microscopy investigation of the wetting of reversed-phase liquid chromatographic stationary phase particles. <i>Analytical Chemistry</i> , <b>2009</b> , 81, 7632-8	7.8	12
152	Electric-field control of the tautomerization and metal ion binding reactivity of 8-hydroxyquinoline immobilized to an electrode surface. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 1891-901	7.8	24

151	A simple synthesis of catalytically active, high surface area ceria aerogels. <i>Journal of Non-Crystalline Solids</i> , <b>2008</b> , 354, 5509-5514	3.9	28
150	Surface-enhanced Raman spectroscopy studies of surfactant adsorption to a hydrophobic interface. <i>Applied Spectroscopy</i> , <b>2008</b> , 62, 149-56	3.1	15
149	Detecting phase transitions in phosphatidylcholine vesicles by Raman microscopy and self-modeling curve resolution. <i>Journal of Physical Chemistry B</i> , <b>2007</b> , 111, 11428-36	3.4	91
148	Temperature-controlled confocal Raman microscopy to detect phase transitions in phospholipid vesicles. <i>Applied Spectroscopy</i> , <b>2007</b> , 61, 465-9	3.1	36
147	Electrostatic-gated transport in chemically modified glass nanopore electrodes. <i>Journal of the American Chemical Society</i> , <b>2006</b> , 128, 7679-86	16.4	167
146	Controlling binding site densities on glass surfaces. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 7841-9	7.8	28
145	Detection of drug-membrane interactions in individual phospholipid vesicles by confocal Raman microscopy. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 4918-24	7.8	57
144	Optically trapping confocal Raman microscopy of individual lipid vesicles: kinetics of phospholipase A(2)-catalyzed hydrolysis of phospholipids in the membrane bilayer. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 6928-35	7.8	20
143	Measuring diffusion of molecules into individual polymer particles by confocal Raman microscopy. <i>Analytical Chemistry</i> , <b>2006</b> , 78, 2121-9	7.8	21
142	Templating of multiple ligand metal ion complexation sites in 8-hydroxyquinoline-modified silica sol-gel materials investigated by in situ Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2005</b> , 77, 991-1000	7.8	6
141	Ultrasonic and Raman Scattering Spectroscopy of Zinc Thiocyanate Complexes in Water at 25°C: Kinetics of Complex Formation Determined by Multivariate Analysis. <i>Journal of Solution Chemistry</i> , <b>2005</b> , 34, 499-514	1.8	
140	Spatially resolved analysis of small particles by confocal Raman microscopy: depth profiling and optical trapping. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 576-84	7.8	81
139	Poly(amidoamine) dendrimers as nanoscale diffusion probes in sol-gel films investigated by total internal reflection fluorescence spectroscopy. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 939-46	7.8	25
138	Optical trapping of unilamellar phospholipid vesicles: investigation of the effect of optical forces on the lipid membrane shape by confocal-Raman microscopy. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 4920-8	7.8	49
137	Resolution of intermediate adsorbate structures in the potential-dependent self-assembly of n-hexanethiolate on Silver by in situ surface-enhanced Raman spectroscopy. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 934-44	3.1	7
136	Potential-dependent surface-enhanced Raman scattering from adsorbed thiocyanate for characterizing silver surfaces with improved reproducibility. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 945-51	3.1	12
135	C18-modified metal-colloid substrates for surface-enhanced Raman detection of trace-level polycyclic aromatic hydrocarbons in aqueous solution. <i>Applied Spectroscopy</i> , <b>2004</b> , 58, 1394-400	3.1	41
134	Modifying the adsorption behavior of polyamidoamine dendrimers at silica surfaces investigated by total internal reflection fluorescence correlation spectroscopy. <i>Analytical Chemistry</i> , <b>2004</b> , 76, 930-8	7.8	27

133	Spectroscopic studies of proton-transfer and metal-ion binding of a solution-phase model for silica-immobilized 8-hydroxyquinoline. <i>Analytica Chimica Acta</i> , <b>2003</b> , 494, 105-123	6.6	8
132	Optical-trapping Raman microscopy detection of single unilamellar lipid vesicles. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 6621-8	7.8	108
131	Total internal reflection fluorescence-correlation spectroscopy study of molecular transport in thin sol-gel films. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 3616-24	7.8	37
130	Surface-Enhanced Raman Scattering Based Vibrational Stark Effect as a Spatial Probe of Interfacial Electric Fields in the Diffuse Double Layer. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 7788-7794	3.4	41
129	In-Situ Investigation of Binary-Component Self-Assembled Monolayers: A SERS-Based Spectroelectrochemical Study of the Effects of Monolayer Composition on Interfacial Structure. <i>Langmuir</i> , <b>2003</b> , 19, 5794-5801	4	21
128	Monitoring the formation and decay of transient photosensitized intermediates using pump-probe UV resonance Raman spectroscopy. I: Self-modeling curve resolution. <i>Applied Spectroscopy</i> , <b>2003</b> , 57, 439-47	3.1	4
127	Monitoring the formation and decay of transient photosensitized intermediates using pump-probe UV resonance Raman spectroscopy. II: Kinetic modeling and multidimensional least-squares analysis. <i>Applied Spectroscopy</i> , <b>2003</b> , 57, 448-53	3.1	3
126	Single-molecule fluorescence trajectories for investigating molecular transport in thin silica sol-gel films. <i>Analytical Chemistry</i> , <b>2003</b> , 75, 4351-9	7.8	61
125	Local Surface Environments and Their Effects on Molecular Encounter Rates at Silica/Solution Interfaces Studied by Quenching of Phosphorescence from a Silica-Immobilized Triplet-State Probe. <i>Langmuir</i> , <b>2002</b> , 18, 4307-4313	4	1
124	SERS detection of the vibrational Stark effect from nitrile-terminated SAMs to probe electric fields in the diffuse double-layer. <i>Journal of the American Chemical Society</i> , <b>2002</b> , 124, 2408-9	16.4	72
123	Triplet-state photoexcitation dipole-jump relaxation method to observe adsorption/desorption kinetics at a reversed-phase silica/solution interface. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 2248-56	7.8	5
122	Confocal Raman microscopy for monitoring chemical reactions on single optically trapped, solid-phase support particles. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 4311-9	7.8	85
121	In situ raman spectroscopy studies of metal ion complexation by 8-hydroxyquinoline covalently bound to silica surfaces. <i>Analytical Chemistry</i> , <b>2002</b> , 74, 5112-20	7.8	20
120	Quantitative dosing of surfaces with fluorescent molecules: characterization of fractional monolayer coverages by counting single molecules. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 5030-7	7.8	36
119	Characterization of silane-modified immobilized gold colloids as a substrate for surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 4268-76	7.8	97
118	Determination of Ultratrace-Level Fluorescent Tracer Concentrations in Environmental Samples Using a Combination of HPLC Separation and Laser-Excited Fluorescence Multiwavelength Emission Detection: Application to Testing of Geothermal Well Brines. <i>Applied Spectroscopy</i> , <b>2001</b> , 55, 690-700	3.1	7
117	In Situ Studies of Pyridine Adsorption to Bare and Cyano-Derivatized Silica Sol-Gel Films Using Attenuated-Total-Internal-Reflection Fourier-Transform Infrared Spectroscopy. <i>Langmuir</i> , <b>2001</b> , 17, 5527-5536 <sup>19</sup>	7.8	19
116	In situ ATR-FT-IR kinetic studies of molecular transport and surface binding in thin sol-gel films: reactions of chlorosilane reagents in porous silica materials. <i>Analytical Chemistry</i> , <b>2001</b> , 73, 411-23	7.8	47

115	Fiber-Optic Raman Spectroscopy for in Situ Monitoring of Metal-Ion Complexation by Ligands Immobilized onto Silica Gel. <i>Applied Spectroscopy</i> , <b>2000</b> , 54, 1868-1875	3.1	11
114	Reaction Kinetics at Dispersed-Colloid/Solution Interfaces: Benzophenone Triplet-State Quenching by Methylated Silica Particles. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 8527-8535	3.4	14
113	In situ adsorption studies at silica/solution interfaces by attenuated total internal reflection fourier transform infrared spectroscopy: examination of adsorption models in normal-phase liquid chromatography. <i>Analytical Chemistry</i> , <b>2000</b> , 72, 1543-54	7.8	50
112	Quantitative SERS Measurements on Dielectric-Overcoated Silver-Island Films by Solution-Deposition Control of Surface Concentrations. <i>Analytical Chemistry</i> , <b>1999</b> , 71, 2564-70	7.8	36
111	Specific Interactions between Biotin and Avidin Studied by Atomic Force Microscopy Using the Poisson Statistical Analysis Method. <i>Langmuir</i> , <b>1999</b> , 15, 1373-1382	4	99
110	Computer Modeling of Atomic Force Microscopy Force Measurements: Comparisons of Poisson, Histogram, and Continuum Methods. <i>Langmuir</i> , <b>1999</b> , 15, 207-213	4	40
109	Electrochemical Measurement of the Free Energy of Adsorption of n-Alkanethiolates at Ag(111). <i>Journal of the American Chemical Society</i> , <b>1998</b> , 120, 1062-1069	16.4	113
108	Time-resolved fluorescence monitoring of aromatic radicals in photoinitiated processes. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2576-83	7.8	7
107	Fluorescence correlation spectroscopy with patterned photoexcitation for measuring solution diffusion coefficients of robust fluorophores. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 1281-7	7.8	31
106	In situ Detection of Adsorbates at Silica/Solution Interfaces by Fourier Transform Infrared Attenuated Total Reflection Spectroscopy Using a Silica-Coated Internal Reflection Element. <i>Applied Spectroscopy</i> , <b>1998</b> , 52, 1391-1398	3.1	27
105	Total internal reflection fluorescence correlation spectroscopy for counting molecules at solid/liquid interfaces. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 2565-75	7.8	54
104	Measuring Reversible Adsorption Kinetics of Small Molecules at Solid/Liquid Interfaces by Total Internal Reflection Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , <b>1998</b> , 70, 4247-4256	7.8	72
103	Single-Molecule Bond-Rupture Force Analysis of Interactions between AFM Tips and Substrates Modified with Organosilanes. <i>Analytical Chemistry</i> , <b>1997</b> , 69, 2855-2861	7.8	64
102	Measurements of Single-Molecule Bond-Rupture Forces between Self-Assembled Monolayers of Organosilanes with the Atomic Force Microscope. <i>Langmuir</i> , <b>1997</b> , 13, 3761-3768	4	75
101	Molecular Photophysics of Acridine Yellow Studied by Phosphorescence and Delayed Fluorescence: An Undergraduate Physical Chemistry Experiment. <i>Journal of Chemical Education</i> , <b>1997</b> , 74, 1208	2.4	8
100	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 6596-6606	16.4	67
99	Resolving Component Overlap in Multiwavelength Kinetic Spectroscopy: Application to Raman Scattering from Intermediates in Triplet-State Photoreactions. <i>Photochemistry and Photobiology</i> , <b>1997</b> , 65, 47-56	3.6	8
98	Direct measurement of sorption/desorption kinetics in reversed-phase chromatographic systems. <i>Journal of Separation Science</i> , <b>1997</b> , 9, 185-191		8



97	Data analysis techniques for monitoring excited state kinetics. <i>Analytica Chimica Acta</i> , <b>1997</b> , 348, 311-326.6	5
96	Characterization of SiO <sub>2</sub> -Overcoated Silver-Island Films as Substrates for Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1003-1011	7.8 62
95	Temperature-jump investigation of alkyl chain length effects on sorption/desorption kinetics at reversed-phase chromatographic interfaces. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 1651-7	7.8 13
94	Triplet-Sensitized Photorearrangements of 2-Phenylallyl Phosphites. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 6192-6201	16.4 12
93	Time- and Wavelength-Resolved Delayed-Fluorescence Emission from Acridine Yellow in an Inhomogeneous Saccharide Glass. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 639-646	7.8 20
92	Liquid Filters for UV Resonance Raman Spectroscopy. <i>Applied Spectroscopy</i> , <b>1996</b> , 50, 1597-1602	3.1 7
91	Lateral diffusion of molecules partitioned into silica-bound alkyl chains: influence of chain length and bonding density. <i>Analytical Chemistry</i> , <b>1996</b> , 68, 2879-84	7.8 39
90	Time-Resolved Photothermal Grating Calorimetry for Investigating Kinetics of Free-Radical Chain Reactions. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 365-373	7.8 4
89	Multidimensional least-squares resolution of excited-state Raman spectra. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 701-709	7.8 9
88	Multidimensional Least-Squares Resolution of Raman Spectra from Intermediates in Sensitized Photochemical Reactions. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 1361-1370	7.8 7
87	Delayed Fluorescence Optical Thermometry. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 4269-4275	7.8 59
86	Temperature-Jump Investigation of Adsorption/Desorption Kinetics at Methylated Silica/Solution Interfaces. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 3441-3447	7.8 15
85	Lateral diffusion of molecules partitioned into C-18 ligands on silica surfaces. <i>Analytical Chemistry</i> , <b>1995</b> , 67, 492-8	7.8 50
84	Temperature-Jump Investigation of Sorption/Desorption Kinetics at Reversed-Phase Chromatographic Silica/Solution Interfaces. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 2052-2061	7.8 21
83	Lateral Diffusion of an Adsorbate at a Chromatographic C18/Water Interface. <i>Analytical Chemistry</i> , <b>1994</b> , 66, 1708-1712	7.8 59
82	Surface Diffusion of Organosiloxane Ligands Covalently Bound to Silica. <i>Journal of the American Chemical Society</i> , <b>1994</b> , 116, 5754-5761	16.4 33
81	Physical structure, optical resonance, and surface-enhanced Raman scattering of silver-island films on suspended polymer latex particles. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3177-3186	7.8 64
80	Electronic spectroscopic investigations of the stationary phase in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , <b>1993</b> , 656, 197-215	4.5 66

79	Effect of placement of phosphorus in a ring on the triplet-sensitized photorearrangement of 2-phenylallyl phosphites. <i>Tetrahedron Letters</i> , <b>1993</b> , 34, 5987-5990	2	6
78	Joule-discharge heating studies of pore connectivity in silica gel: influence of pore diameter, chemical modification, and particle size. <i>Analytical Chemistry</i> , <b>1993</b> , 65, 3622-3630	7.8	2
77	Holographic Spectroscopy Diffraction from Laser-Induced Gratings. <i>Analytical Chemistry</i> , <b>1992</b> , 64, 710A-719A	4	
76	Photo-induced dimerization of 1-anilino-8-naphthalenesulfonate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1992</b> , 64, 81-91	4.7	
75	Photothermal beam deflection study of energy transfer from excited triplet states in fluid solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , <b>1991</b> , 60, 51-61	4.7	10
74	Photothermal grating spectroscopy study of nongeminate atom recombination of photodissociated iodine in liquids. <i>Chemical Physics</i> , <b>1991</b> , 157, 409-422	2.3	11
73	Photodissociation and nongeminate recombination of bromine in liquids initiated by 532 nm radiation. <i>Chemical Physics Letters</i> , <b>1991</b> , 186, 183-188	2.5	12
72	Multiwavelength fluorescence detection for DNA sequencing using capillary electrophoresis. <i>Nucleic Acids Research</i> , <b>1991</b> , 19, 4955-62	20.1	98
71	Modification of quartz surfaces via thiol-disulfide interchange. <i>Langmuir</i> , <b>1991</b> , 7, 307-313	4	13
70	Kinetic titration method to determine the excited-state concentration of a photochemical sensitizer. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 688-692	7.8	1
69	Raman spectroscopic study of solvation structure in acetonitrile/water mixtures. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 964-969	7.8	87
68	Stimulated Raman Gain Detected by Photothermal Beam Deflection for Selective Determination of Organic Compounds. <i>Applied Spectroscopy</i> , <b>1991</b> , 45, 1590-1597	3.1	1
67	Structure of alkylated silica surfaces: quenching of fluorescence from covalently bound pyrene. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 1076-1081	7.8	36
66	Temperature-jump relaxation kinetics at liquid/solid interfaces: fluorescence thermometry of porous silica heated by a Joule discharge. <i>Analytical Chemistry</i> , <b>1991</b> , 63, 2365-2370	7.8	4
65	Multiple internal reflection Fourier transform infrared spectroscopic studies of thiocyanate adsorption on silver and gold. <i>Langmuir</i> , <b>1990</b> , 6, 209-217	4	36
64	Studies of excited-state absorption and photoisomerization of cyanine dyes by using laser-induced anharmonic thermal gratings. <i>Chemical Physics</i> , <b>1990</b> , 142, 301-309	2.3	18
63	An Inexpensive Therapist-Client Communication Device for Use in Parent Training. <i>Child and Family Behavior Therapy</i> , <b>1990</b> , 12, 65-69	1	7
62	Predicting the statistical properties of least-squares polynomial filters. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 2749-2752	7.8	12

61	Excited-state calorimetry studies of triplet benzophenone using time-resolved photothermal beam deflection spectroscopy. <i>Journal of the American Chemical Society</i> , <b>1990</b> , 112, 644-650	16.4	34
60	Polynomial filters for data sets with outlying or missing observations: application to charge-coupled-device-detected Raman spectra contaminated by cosmic rays. <i>Analytical Chemistry</i> , <b>1990</b> , 62, 2351-2357	7.8	61
59	Properties of electrochemically generated poly(p-phenylene). <i>Electrochimica Acta</i> , <b>1989</b> , 34, 599-610	6.7	26
58	Temperature-induced changes in reversed-phase chromatographic surfaces. <i>Journal of Chromatography A</i> , <b>1989</b> , 481, 135-146	4.5	11
57	Quantitative estimation of component amplitudes in multiexponential data: application to time-resolved fluorescence spectroscopy. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 2310-2315	7.8	10
56	Total Internal Reflection Fluorescence for Adsorbed Probe Molecule Studies of Liquid/Solid Interfacial Environments. <i>Applied Spectroscopy</i> , <b>1989</b> , 43, 81-87	3.1	20
55	In-situ fluorescence studies of aluminum ion complexation by 8-hydroxyquinoline covalently bound to silica. <i>Analytical Chemistry</i> , <b>1989</b> , 61, 1001-1010	7.8	21
54	Influence of photoisomerization on saturated absorption of 3,3'-diethyloxadicyanone iodide (DODCI) studied by diffraction from laser-induced, anharmonic thermal gratings. <i>Chemical Physics</i> , <b>1988</b> , 124, 321-332	2.3	19
53	Attenuated Total Reflection FT-IR Spectroscopy to Measure Interfacial Reaction Kinetics at Silica Surfaces. <i>Applied Spectroscopy</i> , <b>1988</b> , 42, 997-1004	3.1	19
52	In situ fluorescence detection of polycyclic aromatic hydrocarbons following preconcentration on alkylated silica adsorbents. <i>Analytical Chemistry</i> , <b>1988</b> , 60, 698-702	7.8	20
51	Anharmonic forced Rayleigh scattering: A technique for study of saturated absorption in liquids. <i>Journal of Chemical Physics</i> , <b>1987</b> , 86, 2536-2547	3.9	16
50	Diffuse Reflectance and Photoacoustic Fourier Transform Infrared Spectra of Silica Surfaces under Polarizable Gases. <i>Applied Spectroscopy</i> , <b>1987</b> , 41, 1156-1159	3.1	5
49	Heterogeneity of reversed-phase chromatographic surfaces: quenching of sorbed pyrene fluorescence. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 2546-2550	7.8	64
48	Maximum likelihood quantitative estimates for peaks: application to photoacoustic spectroscopy. <i>Analytical Chemistry</i> , <b>1987</b> , 59, 1620-1626	7.8	5
47	Laser-Based Instrument for Electric Dichroism Spectroscopy of Small Molecules. <i>Applied Spectroscopy</i> , <b>1986</b> , 40, 483-486	3.1	2
46	Thermal Lens Absorption Measurements in Binary Liquid Mixtures near the Consolute Critical Point. <i>Applied Spectroscopy</i> , <b>1986</b> , 40, 606-611	3.1	15
45	Reactivity of organosilane reagents on microparticulate silica. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 748-752	7.8	12
44	Anharmonic forced Rayleigh scattering. <i>Physical Review A</i> , <b>1986</b> , 34, 4829-4842	2.6	13

43	Photoacoustic spectroscopy in supercritical fluids. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 490-493	7.8	4
42	Fluorescence studies of the stationary-phase chemical environment in reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , <b>1986</b> , 58, 626-631	7.8	74
41	Multiwavelength detection and reiterative least squares resolution of overlapped liquid chromatographic peaks. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 1552-1559	7.8	28
40	Thermal lens measurements of optical computation of the laser beam spot size. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 1698-1703	7.8	29
39	Least squares singular value decomposition for the resolution of pK <sub>s</sub> and spectra from organic acid/base mixtures. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 1718-21	7.8	30
38	Simultaneous flame photometric determination of lithium, sodium, potassium, and calcium by flow injection analysis with gradient scanning standard addition. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 1457-1461	7.8	46
37	Double-beam thermal lens spectrometry. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 2434-2436	7.8	15
36	Selection of analytical wavelengths for multicomponent spectrophotometric determinations. <i>Analytical Chemistry</i> , <b>1985</b> , 57, 2680-2684	7.8	69
35	Diffraction from two-photon-excited thermal index gratings. <i>Optics Letters</i> , <b>1985</b> , 10, 140-2	3	16
34	Real-time thermal lens absorption measurements with application to flow-injection systems. <i>Analytica Chimica Acta</i> , <b>1984</b> , 164, 91-101	6.6	18
33	Bound pyrene excimer photophysics and the organization and distribution of reaction sites on silica. <i>Journal of the American Chemical Society</i> , <b>1984</b> , 106, 4077-4082	16.4	104
32	Thermal lens absorption measurements on small volume samples. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 922-925	7.8	20
31	Laser intracavity photothermal beam deflection spectroscopy. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 2975-2977	7.8	15
30	Least-squares polynomial filters for initial point and slope estimation. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 2304-2307	7.8	18
29	Supercritical fluids as spectroscopic solvents for thermo-optical absorption measurements. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 1481-1487	7.8	21
28	Reiterative least-squares spectral resolution of organic acid/base mixtures. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 466-470	7.8	40
27	Thermal lens absorption measurements by flow injection into supercritical fluid solvents. <i>Analytical Chemistry</i> , <b>1984</b> , 56, 2801-2805	7.8	15
26	Pulsed laser induced thermal diffraction for absorption measurements in small volumes. <i>Analytical Chemistry</i> , <b>1983</b> , 55, 1537-1543	7.8	11

25	Organization and distribution of molecules chemically bound to silica. <i>Analytical Chemistry</i> , <b>1983</b> , 55, 1344-1348	7.8	119
24	Spectrophotometric determination of metals at trace levels by flow injection and series differential detection. <i>Analytical Chemistry</i> , <b>1983</b> , 55, 1669-1673	7.8	28
23	Long Path Length Samples in Thermal Lens Calorimetry. <i>Applied Spectroscopy</i> , <b>1983</b> , 37, 166-172	3.1	17
22	Comparison of single- and dual-beam configurations for thermal lens spectrometry. <i>Analytical Chemistry</i> , <b>1983</b> , 55, 1256-1261	7.8	28
21	Sampling correlator for fluorescence decay measurements using free-running, cw laser excitation. <i>Review of Scientific Instruments</i> , <b>1983</b> , 54, 1467-1472	1.7	
20	Flow injection of ultratrace level samples into laser-based detectors. <i>Analytical Chemistry</i> , <b>1982</b> , 54, 2337-2340	7.8	17
19	Treatment of replicate measurements in kinetic analysis. <i>Analytical Chemistry</i> , <b>1982</b> , 54, 2053-2056	7.8	5
18	Laser-induced thermal diffraction for calorimetric absorption measurements. <i>Analytical Chemistry</i> , <b>1982</b> , 54, 239-242	7.8	27
17	Infrared Laser-Induced Thermal Lens Calorimetry. <i>Applied Spectroscopy</i> , <b>1982</b> , 36, 309-314	3.1	17
16	Time-resolved thermal lens calorimetry. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 106-109	7.8	83
15	Resolution of multicomponent fluorescence spectra by an emission wavelength-decay time data matrix. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 272-276	7.8	72
14	Multichannel detection and numerical resolution of overlapping chromatographic peaks. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 821-825	7.8	27
13	Thermal lens calorimetry. <i>Journal of Chromatography A</i> , <b>1981</b> , 218, 15-19	4.5	32
12	Room-temperature, excitation wavelength-dependent fluorescence at surfaces: a potential method for studying the micro-heterogeneity of surface environments. <i>Analytica Chimica Acta</i> , <b>1981</b> , 131, 263-269	6.6	31
11	Thermal lens calorimetry for flowing samples. <i>Analytical Chemistry</i> , <b>1981</b> , 53, 689-692	7.8	50
10	Differential thermal lens calorimetry. <i>Analytical Chemistry</i> , <b>1980</b> , 52, 2338-2342	7.8	76
9	Simple, inexpensive photodetector for subnanosecond sources. <i>Review of Scientific Instruments</i> , <b>1980</b> , 51, 988-989	1.7	12
8	Laser induced thermal lens effect for calorimetric trace analysis. <i>Analytical Chemistry</i> , <b>1979</b> , 51, 728-731	7.8	185

7	Time correlation method for measuring fluorescence decays with a cw laser. <i>Review of Scientific Instruments</i> , <b>1979</b> , 50, 333	1.7	13
6	Measurement of subnanosecond fluorescence decays by sampled single-photon detection. <i>Review of Scientific Instruments</i> , <b>1977</b> , 48, 1469-1476	1.7	58
5	Sub-nanosecond time-resolved rejection of fluorescence from Raman spectra. <i>Analytical Chemistry</i> , <b>1976</b> , 48, 1937-1943	7.8	50
4	Squirrel-cage photomultiplier base design for measurement of nanosecond fluorescence decays. <i>Analytical Chemistry</i> , <b>1976</b> , 48, 2095-2097	7.8	97
3	Pulse generation in a cw dye laser by mode-locked synchronous pumping. <i>Applied Physics Letters</i> , <b>1975</b> , 26, 16-18	3.4	47
2	Spectroscopic excitation source with variable frequencies and shapes of modulation. <i>Analytical Chemistry</i> , <b>1975</b> , 47, 571-573	7.8	9
1	Chromatographic resolution of enantiomers: <sup>1</sup> H and <sup>13</sup> C nuclear magnetic resonance studies of hydrogen bonding in chiral ureide ester-amide systems. <i>Journal of Chromatography A</i> , <b>1972</b> , 72, 405-413	4.5	34