

Joel M Harris

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5784970/joel-m-harris-publications-by-citations.pdf>

Version: 2024-04-27

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	Laser induced thermal lens effect for calorimetric trace analysis. <i>Analytical Chemistry</i> , 1979 , 51, 728-731	7.8	185
221	Electrostatic-gated transport in chemically modified glass nanopore electrodes. <i>Journal of the American Chemical Society</i> , 2006 , 128, 7679-86	16.4	167
220	Organization and distribution of molecules chemically bound to silica. <i>Analytical Chemistry</i> , 1983 , 55, 1344-1348	7.8	119
219	Electrochemical Measurement of the Free Energy of Adsorption of n-Alkanethiolates at Ag(111). <i>Journal of the American Chemical Society</i> , 1998 , 120, 1062-1069	16.4	113
218	Optical-trapping Raman microscopy detection of single unilamellar lipid vesicles. <i>Analytical Chemistry</i> , 2003 , 75, 6621-8	7.8	108
217	Bound pyrene excimer photophysics and the organization and distribution of reaction sites on silica. <i>Journal of the American Chemical Society</i> , 1984 , 106, 4077-4082	16.4	104
216	Specific Interactions between Biotin and Avidin Studied by Atomic Force Microscopy Using the Poisson Statistical Analysis Method. <i>Langmuir</i> , 1999 , 15, 1373-1382	4	99
215	Multiwavelength fluorescence detection for DNA sequencing using capillary electrophoresis. <i>Nucleic Acids Research</i> , 1991 , 19, 4955-62	20.1	98
214	Characterization of silane-modified immobilized gold colloids as a substrate for surface-enhanced Raman spectroscopy. <i>Analytical Chemistry</i> , 2001 , 73, 4268-76	7.8	97
213	Squirrel-cage photomultiplier base design for measurement of nanosecond fluorescence decays. <i>Analytical Chemistry</i> , 1976 , 48, 2095-2097	7.8	97
212	Detecting phase transitions in phosphatidylcholine vesicles by Raman microscopy and self-modeling curve resolution. <i>Journal of Physical Chemistry B</i> , 2007 , 111, 11428-36	3.4	91
211	Raman spectroscopic study of solvation structure in acetonitrile/water mixtures. <i>Analytical Chemistry</i> , 1991 , 63, 964-969	7.8	87
210	Confocal Raman microscopy for monitoring chemical reactions on single optically trapped, solid-phase support particles. <i>Analytical Chemistry</i> , 2002 , 74, 4311-9	7.8	85
209	Time-resolved thermal lens calorimetry. <i>Analytical Chemistry</i> , 1981 , 53, 106-109	7.8	83
208	Spatially resolved analysis of small particles by confocal Raman microscopy: depth profiling and optical trapping. <i>Analytical Chemistry</i> , 2004 , 76, 576-84	7.8	81
207	Differential thermal lens calorimetry. <i>Analytical Chemistry</i> , 1980 , 52, 2338-2342	7.8	76
206	Measurements of Single-Molecule Bond-Rupture Forces between Self-Assembled Monolayers of Organosilanes with the Atomic Force Microscope. <i>Langmuir</i> , 1997 , 13, 3761-3768	4	75

205	Fluorescence studies of the stationary-phase chemical environment in reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , 1986 , 58, 626-631	7.8	74
204	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> , 2002 , 124, 2408-9	16.4	72
203	Measuring Reversible Adsorption Kinetics of Small Molecules at Solid/Liquid Interfaces by Total Internal Reflection Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 1998 , 70, 4247-4256	7.8	72
202	Resolution of multicomponent fluorescence spectra by an emission wavelength-decay time data matrix. <i>Analytical Chemistry</i> , 1981 , 53, 272-276	7.8	72
201	Selection of analytical wavelengths for multicomponent spectrophotometric determinations. <i>Analytical Chemistry</i> , 1985 , 57, 2680-2684	7.8	69
200	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). <i>Journal of the American Chemical Society</i> , 1997 , 119, 6596-6606	16.4	67
199	Electronic spectroscopic investigations of the stationary phase in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1993 , 656, 197-215	4.5	66
198	Single-Molecule Bond-Rupture Force Analysis of Interactions between AFM Tips and Substrates Modified with Organosilanes. <i>Analytical Chemistry</i> , 1997 , 69, 2855-2861	7.8	64
197	Physical structure, optical resonance, and surface-enhanced Raman scattering of silver-island films on suspended polymer latex particles. <i>Analytical Chemistry</i> , 1993 , 65, 3177-3186	7.8	64
196	Heterogeneity of reversed-phase chromatographic surfaces: quenching of sorbed pyrene fluorescence. <i>Analytical Chemistry</i> , 1987 , 59, 2546-2550	7.8	64
195	Biotin-avidin binding kinetics measured by single-molecule imaging. <i>Analytical Chemistry</i> , 2009 , 81, 336-428	7.8	63
194	Characterization of SiO ₂ -Overcoated Silver-Island Films as Substrates for Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 1996 , 68, 1003-1011	7.8	62
193	Single-molecule fluorescence trajectories for investigating molecular transport in thin silica sol-gel films. <i>Analytical Chemistry</i> , 2003 , 75, 4351-9	7.8	61
192	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> , 1990 , 62, 2351-2357	7.8	61
191	Delayed Fluorescence Optical Thermometry. <i>Analytical Chemistry</i> , 1995 , 67, 4269-4275	7.8	59
190	Lateral Diffusion of an Adsorbate at a Chromatographic C18/Water Interface. <i>Analytical Chemistry</i> , 1994 , 66, 1708-1712	7.8	59
189	Measurement of subnanosecond fluorescence decays by sampled single-photon detection. <i>Review of Scientific Instruments</i> , 1977 , 48, 1469-1476	1.7	58
188	Detection of drug-membrane interactions in individual phospholipid vesicles by confocal Raman microscopy. <i>Analytical Chemistry</i> , 2006 , 78, 4918-24	7.8	57

187	Total internal reflection fluorescence correlation spectroscopy for counting molecules at solid/liquid interfaces. <i>Analytical Chemistry</i> , 1998 , 70, 2565-75	7.8	54
186	Trajectory analysis of single molecules exhibiting non-brownian motion. <i>Physical Chemistry Chemical Physics</i> , 2011 , 13, 4326-34	3.6	50
185	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> , 2000 , 72, 1543-54	7.8	50
184	Lateral diffusion of molecules partitioned into C-18 ligands on silica surfaces. <i>Analytical Chemistry</i> , 1995 , 67, 492-8	7.8	50
183	Thermal lens calorimetry for flowing samples. <i>Analytical Chemistry</i> , 1981 , 53, 689-692	7.8	50
182	Sub-nanosecond time-resolved rejection of fluorescence from Raman spectra. <i>Analytical Chemistry</i> , 1976 , 48, 1937-1943	7.8	50
181	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> , 2004 , 76, 4920-8	7.8	49
180	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> , 2001 , 73, 411-23	7.8	47
179	Pulse generation in a cw dye laser by mode-locked synchronous pumping. <i>Applied Physics Letters</i> , 1975 , 26, 16-18	3.4	47
178	Simultaneous flame photometric determination of lithium, sodium, potassium, and calcium by flow injection analysis with gradient scanning standard addition. <i>Analytical Chemistry</i> , 1985 , 57, 1457-1461	7.8	46
177	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> , 2003 , 107, 7788-7794	3.4	41
176	C18-modified metal-colloid substrates for surface-enhanced Raman detection of trace-level polycyclic aromatic hydrocarbons in aqueous solution. <i>Applied Spectroscopy</i> , 2004 , 58, 1394-400	3.1	41
175	Computer Modeling of Atomic Force Microscopy Force Measurements: Comparisons of Poisson, Histogram, and Continuum Methods. <i>Langmuir</i> , 1999 , 15, 207-213	4	40
174	Reiterative least-squares spectral resolution of organic acid/base mixtures. <i>Analytical Chemistry</i> , 1984 , 56, 466-470	7.8	40
173	Fluorescence imaging of single-molecule retention trajectories in reversed-phase chromatographic particles. <i>Analytical Chemistry</i> , 2013 , 85, 9363-70	7.8	39
172	Single-molecule fluorescence imaging of peptide binding to supported lipid bilayers. <i>Analytical Chemistry</i> , 2009 , 81, 5130-8	7.8	39
171	Lateral diffusion of molecules partitioned into silica-bound alkyl chains: influence of chain length and bonding density. <i>Analytical Chemistry</i> , 1996 , 68, 2879-84	7.8	39
170	Quantitative detection of single molecules in fluorescence microscopy images. <i>Analytical Chemistry</i> , 2010 , 82, 189-96	7.8	37

169	Total internal reflection fluorescence-correlation spectroscopy study of molecular transport in thin sol-gel films. <i>Analytical Chemistry</i> , 2003 , 75, 3616-24	7.8	37
168	Single-Molecule Fluorescence Imaging of Interfacial DNA Hybridization Kinetics at Selective Capture Surfaces. <i>Analytical Chemistry</i> , 2016 , 88, 1345-54	7.8	36
167	Confocal Raman microscopy for simultaneous monitoring of partitioning and disordering of tricyclic antidepressants in phospholipid vesicle membranes. <i>Journal of Raman Spectroscopy</i> , 2010 , 41, 498-507	2.3	36
166	Temperature-controlled confocal Raman microscopy to detect phase transitions in phospholipid vesicles. <i>Applied Spectroscopy</i> , 2007 , 61, 465-9	3.1	36
165	Quantitative dosing of surfaces with fluorescent molecules: characterization of fractional monolayer coverages by counting single molecules. <i>Analytical Chemistry</i> , 2001 , 73, 5030-7	7.8	36
164	Quantitative SERS Measurements on Dielectric-Overcoated Silver-Island Films by Solution-Deposition Control of Surface Concentrations. <i>Analytical Chemistry</i> , 1999 , 71, 2564-70	7.8	36
163	Multiple internal reflection Fourier transform infrared spectroscopic studies of thiocyanate adsorption on silver and gold. <i>Langmuir</i> , 1990 , 6, 209-217	4	36
162	Structure of alkylated silica surfaces: quenching of fluorescence from covalently bound pyrene. <i>Analytical Chemistry</i> , 1991 , 63, 1076-1081	7.8	36
161	Selective Proton/Deuteron Transport through Nafion Graphene Nafion Sandwich Structures at High Current Density. <i>Journal of the American Chemical Society</i> , 2018 , 140, 1743-1752	16.4	35
160	Raman Spectroscopy Reveals Selective Interactions of Cytochrome c with Cardiolipin That Correlate with Membrane Permeability. <i>Journal of the American Chemical Society</i> , 2017 , 139, 3851-3860	16.4	34
159	Excited-state calorimetry studies of triplet benzophenone using time-resolved photothermal beam deflection spectroscopy. <i>Journal of the American Chemical Society</i> , 1990 , 112, 644-650	16.4	34
158	Chromatographic resolution of enantiomers: ¹ H and ¹³ C nuclear magnetic resonance studies of hydrogen bonding in chiral ureide ester-amide systems. <i>Journal of Chromatography A</i> , 1972 , 72, 405-413	4.5	34
157	Surface Diffusion of Organosiloxane Ligands Covalently Bound to Silica. <i>Journal of the American Chemical Society</i> , 1994 , 116, 5754-5761	16.4	33
156	Surface-enhanced Raman spectroscopy investigation of the potential-dependent acid-base chemistry of silver-immobilized 2-mercaptobenzoic acid. <i>Langmuir</i> , 2011 , 27, 3527-33	4	32
155	Thermal lens calorimetry. <i>Journal of Chromatography A</i> , 1981 , 218, 15-19	4.5	32
154	Fluorescence correlation spectroscopy with patterned photoexcitation for measuring solution diffusion coefficients of robust fluorophores. <i>Analytical Chemistry</i> , 1998 , 70, 1281-7	7.8	31
153	Room-temperature, excitation wavelength-dependent fluorescence at surfaces: a potential method for studying the micro-heterogeneity of surface environments. <i>Analytica Chimica Acta</i> , 1981 , 131, 263-269	6.6	31
152	Confocal Raman microscopy of optical-trapped particles in liquids. <i>Annual Review of Analytical Chemistry</i> , 2010 , 3, 277-97	12.5	30

151	Least squares singular value decomposition for the resolution of pK _s and spectra from organic acid/base mixtures. <i>Analytical Chemistry</i> , 1985 , 57, 1718-21	7.8	30
150	Magnesium as a Novel UV Plasmonic Material for Fluorescence Decay Rate Engineering in Free Solution. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11650-11657	3.8	29
149	UV Fluorescence Lifetime Modification by Aluminum Nanoapertures. <i>ACS Photonics</i> , 2014 , 1, 1270-1277	6.3	29
148	Thermal lens measurements of optical computation of the laser beam spot size. <i>Analytical Chemistry</i> , 1985 , 57, 1698-1703	7.8	29
147	Surface-enhanced Raman scattering study of the kinetics of self-assembly of carboxylate-terminated n-alkanethiols on silver. <i>Langmuir</i> , 2012 , 28, 2628-36	4	28
146	A simple synthesis of catalytically active, high surface area ceria aerogels. <i>Journal of Non-Crystalline Solids</i> , 2008 , 354, 5509-5514	3.9	28
145	Controlling binding site densities on glass surfaces. <i>Analytical Chemistry</i> , 2006 , 78, 7841-9	7.8	28
144	Spectrophotometric determination of metals at trace levels by flow injection and series differential detection. <i>Analytical Chemistry</i> , 1983 , 55, 1669-1673	7.8	28
143	Comparison of single- and dual-beam configurations for thermal lens spectrometry. <i>Analytical Chemistry</i> , 1983 , 55, 1256-1261	7.8	28
142	Multiwavelength detection and reiterative least squares resolution of overlapped liquid chromatographic peaks. <i>Analytical Chemistry</i> , 1985 , 57, 1552-1559	7.8	28
141	Imaging fluorescence-correlation spectroscopy for measuring fast surface diffusion at liquid/solid interfaces. <i>Analytical Chemistry</i> , 2014 , 86, 7618-26	7.8	27
140	Modifying the adsorption behavior of polyamidoamine dendrimers at silica surfaces investigated by total internal reflection fluorescence correlation spectroscopy. <i>Analytical Chemistry</i> , 2004 , 76, 930-8	7.8	27
139	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> , 1998 , 52, 1391-1398	3.1	27
138	Multichannel detection and numerical resolution of overlapping chromatographic peaks. <i>Analytical Chemistry</i> , 1981 , 53, 821-825	7.8	27
137	Laser-induced thermal diffraction for calorimetric absorption measurements. <i>Analytical Chemistry</i> , 1982 , 54, 239-242	7.8	27
136	Properties of electrochemically generated poly(p-phenylene). <i>Electrochimica Acta</i> , 1989 , 34, 599-610	6.7	26
135	Poly(amidoamine) dendrimers as nanoscale diffusion probes in sol-gel films investigated by total internal reflection fluorescence spectroscopy. <i>Analytical Chemistry</i> , 2004 , 76, 939-46	7.8	25
134	Super-Resolution Imaging and Quantitative Analysis of Membrane Protein/Lipid Raft Clustering Mediated by Cell-Surface Self-Assembly of Hybrid Nanoconjugates. <i>ChemBioChem</i> , 2015 , 16, 1725-9	3.8	24

133	Electric-field control of the tautomerization and metal ion binding reactivity of 8-hydroxyquinoline immobilized to an electrode surface. <i>Analytical Chemistry</i> , 2008 , 80, 1891-901	7.8	24
132	Microscopic rates of peptide-phospholipid bilayer interactions from single-molecule residence times. <i>Journal of the American Chemical Society</i> , 2012 , 134, 19652-60	16.4	23
131	Confocal Raman microscopy probing of temperature-controlled release from individual, optically-trapped phospholipid vesicles. <i>Analytical Chemistry</i> , 2012 , 84, 9505-12	7.8	23
130	Single molecule tracking studies of lower critical solution temperature transition behavior in poly(N-isopropylacrylamide). <i>Langmuir</i> , 2011 , 27, 11037-43	4	23
129	Measuring diffusion of molecules into individual polymer particles by confocal Raman microscopy. <i>Analytical Chemistry</i> , 2006 , 78, 2121-9	7.8	21
128	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> , 2003 , 19, 5794-5801	4	21
127	Temperature-Jump Investigation of Sorption/Desorption Kinetics at Reversed-Phase Chromatographic Silica/Solution Interfaces. <i>Analytical Chemistry</i> , 1994 , 66, 2052-2061	7.8	21
126	In-situ fluorescence studies of aluminum ion complexation by 8-hydroxyquinoline covalently bound to silica. <i>Analytical Chemistry</i> , 1989 , 61, 1001-1010	7.8	21
125	Supercritical fluids as spectroscopic solvents for thermo-optical absorption measurements. <i>Analytical Chemistry</i> , 1984 , 56, 1481-1487	7.8	21
124	Competitive Assays of Label-Free DNA Hybridization with Single-Molecule Fluorescence Imaging Detection. <i>Analytical Chemistry</i> , 2016 , 88, 6410-7	7.8	21
123	Single-Molecule Kinetic Investigation of Cocaine-Dependent Split-Aptamer Assembly. <i>Analytical Chemistry</i> , 2018 , 90, 12964-12970	7.8	21
122	Confocal-Raman Microscopy Characterization of Supported Phospholipid Bilayers Deposited on the Interior Surfaces of Chromatographic Silica. <i>Journal of the American Chemical Society</i> , 2018 , 140, 4071-4078	16.4	20
121	Confocal Raman microscopy for in situ detection of solid-phase extraction of pyrene into single C18-silica particles. <i>Analytical Chemistry</i> , 2014 , 86, 1719-25	7.8	20
120	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> , 2006 , 78, 6928-33	7.8	20
119	In situ raman spectroscopy studies of metal ion complexation by 8-hydroxyquinoline covalently bound to silica surfaces. <i>Analytical Chemistry</i> , 2002 , 74, 5112-20	7.8	20
118	Time- and Wavelength-Resolved Delayed-Fluorescence Emission from Acridine Yellow in an Inhomogeneous Saccharide Glass. <i>Analytical Chemistry</i> , 1996 , 68, 639-646	7.8	20
117	Total Internal Reflection Fluorescence for Adsorbed Probe Molecule Studies of Liquid/Solid Interfacial Environments. <i>Applied Spectroscopy</i> , 1989 , 43, 81-87	3.1	20
116	In situ fluorescence detection of polycyclic aromatic hydrocarbons following preconcentration on alkylated silica adsorbents. <i>Analytical Chemistry</i> , 1988 , 60, 698-702	7.8	20

- 115 Thermal lens absorption measurements on small volume samples. *Analytical Chemistry*, **1984**, 56, 922-925.8 20
- 114 In Situ Studies of Pyridine Adsorption to Bare and Cyano-Derivatized Silica Sol-Gel Films Using Attenuated-Total-Internal-Reflection Fourier-Transform Infrared Spectroscopy. *Langmuir*, **2001**, 17, 5527-5536¹⁹
- 113 Influence of photoisomerization on saturated absorption of 3,3'-diethyloxadicyanine iodide (DODCI) studied by diffraction from laser-induced, anharmonic thermal gratings. *Chemical Physics*, **1988**, 124, 321-332 2.3 19
- 112 Attenuated Total Reflection FT-IR Spectroscopy to Measure Interfacial Reaction Kinetics at Silica Surfaces. *Applied Spectroscopy*, **1988**, 42, 997-1004 3.1 19
- 111 Single-Layer Graphene Sandwiched between Proton-Exchange Membranes for Selective Proton Transmission. *ACS Applied Nano Materials*, **2019**, 2, 964-974 5.6 19
- 110 Fluorescence-correlation spectroscopy study of molecular transport within reversed-phase chromatographic particles compared to planar model surfaces. *Analytical Chemistry*, **2014**, 86, 11766-72^{7.8} 18
- 109 Quantitative confocal Raman microscopy study of ion-interaction retention at reversed-phase chromatographic interfaces. *Analytical Chemistry*, **2010**, 82, 5743-50 7.8 18
- 108 Studies of excited-state absorption and photoisomerization of cyanine dyes by using laser-induced anharmonic thermal gratings. *Chemical Physics*, **1990**, 142, 301-309 2.3 18
- 107 Real-time thermal lens absorption measurements with application to flow-injection systems. *Analytica Chimica Acta*, **1984**, 164, 91-101 6.6 18
- 106 Least-squares polynomial filters for initial point and slope estimation. *Analytical Chemistry*, **1984**, 56, 2304-2307 7.8 18
- 105 Long Path Length Samples in Thermal Lens Calorimetry. *Applied Spectroscopy*, **1983**, 37, 166-172 3.1 17
- 104 Flow injection of ultratrace level samples into laser-based detectors. *Analytical Chemistry*, **1982**, 54, 2337-2340¹⁷
- 103 Infrared Laser-Induced Thermal Lens Calorimetry. *Applied Spectroscopy*, **1982**, 36, 309-314 3.1 17
- 102 Anharmonic forced Rayleigh scattering: A technique for study of saturated absorption in liquids. *Journal of Chemical Physics*, **1987**, 86, 2536-2547 3.9 16
- 101 Diffraction from two-photon-excited thermal index gratings. *Optics Letters*, **1985**, 10, 140-2 3 16
- 100 Fluorescence microscopy of the pressure-dependent structure of lipid bilayers suspended across conical nanopores. *Journal of the American Chemical Society*, **2011**, 133, 7810-5 16.4 15
- 99 Confocal Raman microscopy of the interfacial regions of liquid chromatographic stationary-phase materials. *Analytical Chemistry*, **2009**, 81, 2869-76 7.8 15
- 98 Surface-enhanced Raman spectroscopy studies of surfactant adsorption to a hydrophobic interface. *Applied Spectroscopy*, **2008**, 62, 149-56 3.1 15

97	Temperature-Jump Investigation of Adsorption/Desorption Kinetics at Methylated Silica/Solution Interfaces. <i>Analytical Chemistry</i> , 1995 , 67, 3441-3447	7.8	15
96	Laser intracavity photothermal beam deflection spectroscopy. <i>Analytical Chemistry</i> , 1984 , 56, 2975-2977	7.8	15
95	Thermal lens absorption measurements by flow injection into supercritical fluid solvents. <i>Analytical Chemistry</i> , 1984 , 56, 2801-2805	7.8	15
94	Double-beam thermal lens spectrometry. <i>Analytical Chemistry</i> , 1985 , 57, 2434-2436	7.8	15
93	Thermal Lens Absorption Measurements in Binary Liquid Mixtures near the Consolute Critical Point. <i>Applied Spectroscopy</i> , 1986 , 40, 606-611	3.1	15
92	Shot noise sets the limit of quantification in electrochemical measurements. <i>Current Opinion in Electrochemistry</i> , 2020 , 22, 170-177	7.2	14
91	Confocal Raman Microscopy of Hybrid-Supported Phospholipid Bilayers within Individual C18-Functionalized Chromatographic Particles. <i>Langmuir</i> , 2016 , 32, 9033-44	4	14
90	Structural characterization of individual vesicles using fluorescence microscopy. <i>Analytical Chemistry</i> , 2011 , 83, 4909-15	7.8	14
89	Confocal Raman microscopy of pH-gradient-based 10 000-fold preconcentration of compounds within individual, optically trapped phospholipid vesicles. <i>Analytical Chemistry</i> , 2011 , 83, 6098-105	7.8	14
88	Self-assembly of a triangle-shaped, hexaplatinum-incorporated, supramolecular amphiphile in solution and at interfaces. <i>Chemistry - A European Journal</i> , 2009 , 15, 8566-77	4.8	14
87	Reaction Kinetics at Dispersed-Colloid/Solution Interfaces: Benzophenone Triplet-State Quenching by Methylated Silica Particles. <i>Journal of Physical Chemistry B</i> , 2000 , 104, 8527-8535	3.4	14
86	Single Layer Graphene for Estimation of Axial Spatial Resolution in Confocal Raman Microscopy Depth Profiling. <i>Analytical Chemistry</i> , 2019 , 91, 1049-1055	7.8	14
85	Identification of Individual Immobilized DNA Molecules by Their Hybridization Kinetics Using Single-Molecule Fluorescence Imaging. <i>Analytical Chemistry</i> , 2018 , 90, 5007-5014	7.8	13
84	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , 2019 , 6, 241-245	7.3	13
83	Quantitative fluorescence microscopy to determine molecular occupancy of phospholipid vesicles. <i>Analytical Chemistry</i> , 2011 , 83, 5128-36	7.8	13
82	Temperature-jump investigation of alkyl chain length effects on sorption/desorption kinetics at reversed-phase chromatographic interfaces. <i>Analytical Chemistry</i> , 1996 , 68, 1651-7	7.8	13
81	Modification of quartz surfaces via thiol-disulfide interchange. <i>Langmuir</i> , 1991 , 7, 307-313	4	13
80	Anharmonic forced Rayleigh scattering. <i>Physical Review A</i> , 1986 , 34, 4829-4842	2.6	13

79	Time correlation method for measuring fluorescence decays with a cw laser. <i>Review of Scientific Instruments</i> , 1979 , 50, 333	1.7	13
78	Confocal Raman Microscopy for in Situ Measurement of Octanol-Water Partitioning within the Pores of Individual C18-Functionalized Chromatographic Particles. <i>Analytical Chemistry</i> , 2015 , 87, 5340-7	7.8	12
77	Confocal Raman microscopy investigation of the wetting of reversed-phase liquid chromatographic stationary phase particles. <i>Analytical Chemistry</i> , 2009 , 81, 7632-8	7.8	12
76	Potential-dependent surface-enhanced Raman scattering from adsorbed thiocyanate for characterizing silver surfaces with improved reproducibility. <i>Applied Spectroscopy</i> , 2004 , 58, 945-51	3.1	12
75	Triplet-Sensitized Photorearrangements of 2-Phenylallyl Phosphites. <i>Journal of the American Chemical Society</i> , 1996 , 118, 6192-6201	16.4	12
74	Photodissociation and nongeminate recombination of bromine in liquids initiated by 532 nm radiation. <i>Chemical Physics Letters</i> , 1991 , 186, 183-188	2.5	12
73	Predicting the statistical properties of least-squares polynomial filters. <i>Analytical Chemistry</i> , 1990 , 62, 2749-2752	7.8	12
72	Reactivity of organosilane reagents on microparticulate silica. <i>Analytical Chemistry</i> , 1986 , 58, 748-752	7.8	12
71	Simple, inexpensive photodetector for subnanosecond sources. <i>Review of Scientific Instruments</i> , 1980 , 51, 988-989	1.7	12
70	Calorimetry-Derived Composition Vectors to Resolve Component Raman Spectra in Phospholipid Phase Transitions. <i>Applied Spectroscopy</i> , 2016 , 70, 1165-75	3.1	11
69	Single-molecule fluorescence imaging of DNA at a potential-controlled interface. <i>Langmuir</i> , 2013 , 29, 8292-301	4	11
68	Identification of single fluorescent labels using spectroscopic microscopy. <i>Applied Spectroscopy</i> , 2010 , 64, 37-45	3.1	11
67	Fiber-Optic Raman Spectroscopy for in Situ Monitoring of Metal-Ion Complexation by Ligands Immobilized onto Silica Gel. <i>Applied Spectroscopy</i> , 2000 , 54, 1868-1875	3.1	11
66	Photothermal grating spectroscopy study of nongeminate atom recombination of photodissociated iodine in liquids. <i>Chemical Physics</i> , 1991 , 157, 409-422	2.3	11
65	Temperature-induced changes in reversed-phase chromatographic surfaces. <i>Journal of Chromatography A</i> , 1989 , 481, 135-146	4.5	11
64	Pulsed laser induced thermal diffraction for absorption measurements in small volumes. <i>Analytical Chemistry</i> , 1983 , 55, 1537-1543	7.8	11
63	Photothermal beam deflection study of energy transfer from excited triplet states in fluid solution. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1991 , 60, 51-61	4.7	10
62	Quantitative estimation of component amplitudes in multiexponential data: application to time-resolved fluorescence spectroscopy. <i>Analytical Chemistry</i> , 1989 , 61, 2310-2315	7.8	10

61	Confocal Raman Microscopy for pH-Gradient Preconcentration and Quantitative Analyte Detection in Optically Trapped Phospholipid Vesicles. <i>Analytical Chemistry</i> , 2015 , 87, 7979-86	7.8	9
60	Confocal Raman microscopy for monitoring the membrane polymerization and thermochromism of individual, optically trapped diacetylenic phospholipid vesicles. <i>Journal of Raman Spectroscopy</i> , 2012 , 43, 351-359	2.3	9
59	Multidimensional least-squares resolution of excited-state Raman spectra. <i>Analytical Chemistry</i> , 1995 , 67, 701-709	7.8	9
58	Spectroscopic excitation source with variable frequencies and shapes of modulation. <i>Analytical Chemistry</i> , 1975 , 47, 571-573	7.8	9
57	Confocal Raman Microscopy Investigation of Molecular Transport into Individual Chromatographic Silica Particles. <i>Analytical Chemistry</i> , 2017 , 89, 2755-2763	7.8	8
56	Spatial filtering of a diode laser beam for confocal Raman microscopy. <i>Applied Spectroscopy</i> , 2015 , 69, 513-7	3.1	8
55	Spectroscopic microscopy analysis of the interior pH of individual phospholipid vesicles. <i>Analytical Chemistry</i> , 2011 , 83, 8230-8	7.8	8
54	Molecular Photophysics of Acridine Yellow Studied by Phosphorescence and Delayed Fluorescence: An Undergraduate Physical Chemistry Experiment. <i>Journal of Chemical Education</i> , 1997 , 74, 1208	2.4	8
53	Resolving Component Overlap in Multiwavelength Kinetic Spectroscopy: Application to Raman Scattering from Intermediates in Triplet-State Photoreactions. <i>Photochemistry and Photobiology</i> , 1997 , 65, 47-56	3.6	8
52	Direct measurement of sorption/desorption kinetics in reversed-phase chromatographic systems. <i>Journal of Separation Science</i> , 1997 , 9, 185-191		8
51	Spectroscopic studies of proton-transfer and metal-ion binding of a solution-phase model for silica-immobilized 8-hydroxyquinoline. <i>Analytica Chimica Acta</i> , 2003 , 494, 105-123	6.6	8
50	Thermostability Trends of TNA:DNA Duplexes Reveal Strong Purine Dependence. <i>ACS Synthetic Biology</i> , 2019 , 8, 1144-1152	5.7	7
49	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> , 2004 , 58, 934-44	3.1	7
48	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> , 2001 , 55, 690-700	3.1	7
47	Time-resolved fluorescence monitoring of aromatic radicals in photoinitiated processes. <i>Analytical Chemistry</i> , 1998 , 70, 2576-83	7.8	7
46	Multidimensional Least-Squares Resolution of Raman Spectra from Intermediates in Sensitized Photochemical Reactions. <i>Analytical Chemistry</i> , 1995 , 67, 1361-1370	7.8	7
45	Liquid Filters for UV Resonance Raman Spectroscopy. <i>Applied Spectroscopy</i> , 1996 , 50, 1597-1602	3.1	7
44	An Inexpensive Therapist-Client Communication Device for Use in Parent Training. <i>Child and Family Behavior Therapy</i> , 1990 , 12, 65-69	1	7

43	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> , 2019 , 141, 16450-16460	16.4	6
42	Vibrational Spectroscopy for the Determination of Ionizable Group Content in Ionomer Materials. <i>Applied Spectroscopy</i> , 2018 , 72, 141-150	3.1	6
41	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> , 2017 , 89, 13290-13298	7.8	6
40	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> , 2005 , 77, 991-1000	7.8	6
39	Effect of placement of phosphorus in a ring on the triplet-sensitized photorearrangement of 2-phenylallyl phosphites. <i>Tetrahedron Letters</i> , 1993 , 34, 5987-5990	2	6
38	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> , 2019 , 123, 10746-10756	3.4	6
37	Confocal Raman Microscopy for Label-Free Detection of Protein-Ligand Binding at Nanopore-Supported Phospholipid Bilayers. <i>Analytical Chemistry</i> , 2018 , 90, 11509-11516	7.8	6
36	Confocal Raman Microscopy for in Situ Measurement of Phospholipid-Water Partitioning into Model Phospholipid Bilayers within Individual Chromatographic Particles. <i>Analytical Chemistry</i> , 2018 , 90, 7048-7055	7.8	6
35	Data analysis techniques for monitoring excited state kinetics. <i>Analytica Chimica Acta</i> , 1997 , 348, 311-326.6		5
34	Triplet-state photoexcitation dipole-jump relaxation method to observe adsorption/desorption kinetics at a reversed-phase silica/solution interface. <i>Analytical Chemistry</i> , 2002 , 74, 2248-56	7.8	5
33	Diffuse Reflectance and Photoacoustic Fourier Transform Infrared Spectra of Silica Surfaces under Polarizable Gases. <i>Applied Spectroscopy</i> , 1987 , 41, 1156-1159	3.1	5
32	Maximum likelihood quantitative estimates for peaks: application to photoacoustic spectroscopy. <i>Analytical Chemistry</i> , 1987 , 59, 1620-1626	7.8	5
31	Treatment of replicate measurements in kinetic analysis. <i>Analytical Chemistry</i> , 1982 , 54, 2053-2056	7.8	5
30	Lacritin proteoforms prevent tear film collapse and maintain epithelial homeostasis. <i>Journal of Biological Chemistry</i> , 2021 , 296, 100070	5.4	5
29	Single-Molecule Kinetics Show DNA Pyrimidine Content Strongly Affects RNA:DNA and TNA:DNA Heteroduplex Dissociation Rates. <i>ACS Synthetic Biology</i> , 2020 , 9, 249-253	5.7	4
28	Confocal Raman microscopy for investigating synthesis and characterization of individual optically trapped vinyl-polymerized surfactant particles. <i>Applied Spectroscopy</i> , 2014 , 68, 633-41	3.1	4
27	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> , 2003 , 57, 439-47	3.1	4
26	Time-Resolved Photothermal Grating Calorimetry for Investigating Kinetics of Free-Radical Chain Reactions. <i>Analytical Chemistry</i> , 1995 , 67, 365-373	7.8	4

25	Holographic Spectroscopy Diffraction from Laser-Induced Gratings. <i>Analytical Chemistry</i> , 1992 , 64, 710A-719A	7.8	4
24	Temperature-jump relaxation kinetics at liquid/solid interfaces: fluorescence thermometry of porous silica heated by a Joule discharge. <i>Analytical Chemistry</i> , 1991 , 63, 2365-2370	7.8	4
23	Photoacoustic spectroscopy in supercritical fluids. <i>Analytical Chemistry</i> , 1986 , 58, 490-493	7.8	4
22	Confocal Raman Microscopy Investigation of Phospholipid Monolayers Deposited on Nitrile-Modified Surfaces in Porous Silica Particles. <i>Langmuir</i> , 2020 , 36, 4071-4079	4	3
21	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> , 2003 , 57, 448-53	3.1	3
20	Confocal Raman Microscopy Investigation of Self-Assembly of Hybrid Phospholipid Bilayers within Individual Porous Silica Chromatographic Particles. <i>Analytical Chemistry</i> , 2019 , 91, 7790-7797	7.8	2
19	Imaging fluorescent nanoparticles to probe photoinduced charging of a semiconductor-solution interface. <i>Langmuir</i> , 2013 , 29, 11941-9	4	2
18	Surface-enhanced Raman spectroscopy detection of ionic solutes by surfactant-mediated adsorption to a hydrophobic surface. <i>Applied Spectroscopy</i> , 2013 , 67, 801-7	3.1	2
17	Joule-discharge heating studies of pore connectivity in silica gel: influence of pore diameter, chemical modification, and particle size. <i>Analytical Chemistry</i> , 1993 , 65, 3622-3630	7.8	2
16	Laser-Based Instrument for Electric Dichroism Spectroscopy of Small Molecules. <i>Applied Spectroscopy</i> , 1986 , 40, 483-486	3.1	2
15	Confocal Raman Microscopy Enables Label-Free, Quantitative, and Structurally Informative Detection of DNA Hybridization at Porous Silica Surfaces. <i>Analytical Chemistry</i> , 2021 , 93, 7978-7986	7.8	2
14	Infrared Microscopy as a Probe of Composition within a Model Biofuel Cell Electrode Prepared from <i>Trametes versicolor</i> Laccase. <i>ChemElectroChem</i> , 2019 , 6, 818-826	4.3	2
13	Probing the Mechanism of Structure-Switching Aptamer Assembly by Super-Resolution Localization of Individual DNA Molecules. <i>Analytical Chemistry</i> , 2020 , 92, 6909-6917	7.8	2
12	Evaluating the effect of ionic strength on PNA:DNA duplex formation kinetics. <i>RSC Chemical Biology</i> , 2021 , 2, 1249-1256	3	2
11	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> , 2002 , 18, 4307-4313	4	1
10	Kinetic titration method to determine the excited-state concentration of a photochemical sensitizer. <i>Analytical Chemistry</i> , 1991 , 63, 688-692	7.8	1
9	Stimulated Raman Gain Detected by Photothermal Beam Deflection for Selective Determination of Organic Compounds. <i>Applied Spectroscopy</i> , 1991 , 45, 1590-1597	3.1	1
8	Spatially Multiplexed Imaging: Fluorescence Correlation Spectroscopy for Efficient Measurement of Molecular Diffusion at Solid-Liquid Interfaces. <i>Applied Spectroscopy</i> , 2016 , 70, 695-701	3.1	1

7	Vibrational Spectroscopic Monitoring of the Gelation Transition in Nafion Ionomer Dispersions. <i>Applied Spectroscopy</i> , 2021 , 75, 376-384	3.1	1
6	Adapting confocal Raman microscopy for in situ studies of redox transformations at electrode-electrolyte interfaces. <i>Journal of Electroanalytical Chemistry</i> , 2021 , 896, 115207	4.1	1
5	Hybrid-Lipid Bilayers Induce -Alkyl-Chain Order in Reversed-Phase Chromatographic Surfaces, Impacting their Shape Selectivity for Aromatic Hydrocarbon Partitioning. <i>Analytical Chemistry</i> , 2021 , 93, 4118-4125	7.8	0
4	Hybrid-Supported Bilayers Formed with Mixed-Charge Surfactants on C-Functionalized Silica Surfaces. <i>Langmuir</i> , 2020 , 36, 7609-7618	4	
3	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> , 2005 , 34, 499-514	1.8	
2	Photo-induced dimerization of 1-anilino-8-naphthalenesulfonate. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992 , 64, 81-91	4.7	
1	Sampling correlator for fluorescence decay measurements using free-running, cw laser excitation. <i>Review of Scientific Instruments</i> , 1983 , 54, 1467-1472	1.7	