

Joel M Harris

List of Publications by Year in descending order

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226
papers

7,770
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41323

49
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79644

73
g-index

229
all docs

229
docs citations

229
times ranked

5118
citing authors

#	ARTICLE	IF	CITATIONS
1	Laser induced thermal lens effect for calorimetric trace analysis. <i>Analytical Chemistry</i> , 1979, 51, 728-731.	3.2	244
2	Electrostatic-Gated Transport in Chemically Modified Glass Nanopore Electrodes. <i>Journal of the American Chemical Society</i> , 2006, 128, 7679-7686.	6.6	180
3	Organization and distribution of molecules chemically bound to silica. <i>Analytical Chemistry</i> , 1983, 55, 1344-1348.	3.2	170
4	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.	6.6	128
5	Optical-Trapping Raman Microscopy Detection of Single Unilamellar Lipid Vesicles. <i>Analytical Chemistry</i> , 2003, 75, 6621-6628.	3.2	125
6	Squirrel-cage photomultiplier base design for measurement of nanosecond fluorescence decays. <i>Analytical Chemistry</i> , 1976, 48, 2095-2097.	3.2	120
7	Electrochemical Measurement of the Free Energy of Adsorption of Alkanethiolates at Ag(111). <i>Journal of the American Chemical Society</i> , 1998, 120, 1062-1069.	6.6	118
8	Time-resolved thermal lens calorimetry. <i>Analytical Chemistry</i> , 1981, 53, 106-109.	3.2	116
9	Detecting Phase Transitions in Phosphatidylcholine Vesicles by Raman Microscopy and Self-Modeling Curve Resolution. <i>Journal of Physical Chemistry B</i> , 2007, 111, 11428-11436.	1.2	116
10	Multiwavelength fluorescence detection for DNA sequencing using capillary electrophoresis. <i>Nucleic Acids Research</i> , 1991, 19, 4955-4962.	6.5	111
11	Specific Interactions between Biotin and Avidin Studied by Atomic Force Microscopy Using the Poisson Statistical Analysis Method. <i>Langmuir</i> , 1999, 15, 1373-1382.	1.6	107
12	Differential thermal lens calorimetry. <i>Analytical Chemistry</i> , 1980, 52, 2338-2342.	3.2	106
13	Spatially Resolved Analysis of Small Particles by Confocal Raman Microscopy: Depth Profiling and Optical Trapping. <i>Analytical Chemistry</i> , 2004, 76, 576-584.	3.2	106
14	Characterization of Silane-Modified Immobilized Gold Colloids as a Substrate for Surface-Enhanced Raman Spectroscopy. <i>Analytical Chemistry</i> , 2001, 73, 4268-4276.	3.2	105
15	Fluorescence studies of the stationary-phase chemical environment in reversed-phase liquid chromatography. <i>Analytical Chemistry</i> , 1986, 58, 626-631.	3.2	103
16	Raman spectroscopic study of solvation structure in acetonitrile/water mixtures. <i>Analytical Chemistry</i> , 1991, 63, 964-969.	3.2	98
17	Confocal Raman Microscopy for Monitoring Chemical Reactions on Single Optically Trapped, Solid-Phase Support Particles. <i>Analytical Chemistry</i> , 2002, 74, 4311-4319.	3.2	93
18	Resolution of multicomponent fluorescence spectra by an emission wavelength-decay time data matrix. <i>Analytical Chemistry</i> , 1981, 53, 272-276.	3.2	90

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19	Heterogeneity of reversed-phase chromatographic surfaces: quenching of sorbed pyrene fluorescence. <i>Analytical Chemistry</i> , 1987, 59, 2546-2550.	3.2	85
20	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.	1.6	83
21	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, 2408-2409.	6.6	83
22	Selection of analytical wavelengths for multicomponent spectrophotometric determinations. <i>Analytical Chemistry</i> , 1985, 57, 2680-2684.	3.2	82
23	Thermal lens calorimetry for flowing samples. <i>Analytical Chemistry</i> , 1981, 53, 689-692.	3.2	79
24	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.	3.2	77
25	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.	6.6	75
26	Electronic spectroscopic investigations of the stationary phase in reversed-phase liquid chromatography. <i>Journal of Chromatography A</i> , 1993, 656, 197-215.	1.8	74
27	Electrochemical Oxidative Adsorption of Ethanethiolate on Ag(111). <i>Journal of the American Chemical Society</i> , 1997, 119, 6596-6606.	6.6	73
28	Thermal lens calorimetry. <i>Journal of Chromatography A</i> , 1981, 218, 15-19.	1.8	72
29	Biotin~Avidin Binding Kinetics Measured by Single-Molecule Imaging. <i>Analytical Chemistry</i> , 2009, 81, 336-342.	3.2	71
30	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.	3.2	70
31	Delayed Fluorescence Optical Thermometry. <i>Analytical Chemistry</i> , 1995, 67, 4269-4275.	3.2	70
32	Measurement of subnanosecond fluorescence decays by sampled single~photon detection. <i>Review of Scientific Instruments</i> , 1977, 48, 1469-1476.	0.6	69
33	Characterization of SiO ₂ -Overcoated Silver-Island Films as Substrates for Surface-Enhanced Raman Scattering. <i>Analytical Chemistry</i> , 1996, 68, 1003-1011.	3.2	68
34	Single-Molecule Bond-Rupture Force Analysis of Interactions between AFM Tips and Substrates Modified with Organosilanes. <i>Analytical Chemistry</i> , 1997, 69, 2855-2861.	3.2	68
35	Detection of Drug~Membrane Interactions in Individual Phospholipid Vesicles by Confocal Raman Microscopy. <i>Analytical Chemistry</i> , 2006, 78, 4918-4924.	3.2	68
36	Sub-nanosecond time-resolved rejection of fluorescence from Raman spectra. <i>Analytical Chemistry</i> , 1976, 48, 1937-1943.	3.2	67

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37	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.	3.2	66
38	Single-Molecule Fluorescence Trajectories for Investigating Molecular Transport in Thin Silica SolâGel Films. <i>Analytical Chemistry</i> , 2003, 75, 4351-4359.	3.2	65
39	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.	3.2	60
40	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.	2.6	59
41	Lateral Diffusion of an Adsorbate at a Chromatographic C18/Water Interface. <i>Analytical Chemistry</i> , 1994, 66, 1708-1712.	3.2	59
42	Trajectory analysis of single molecules exhibiting non-Brownian motion. <i>Physical Chemistry Chemical Physics</i> , 2011, 13, 4326-4334.	1.3	57
43	Total Internal Reflection Fluorescence Correlation Spectroscopy for Counting Molecules at Solid/Liquid Interfaces. <i>Analytical Chemistry</i> , 1998, 70, 2565-2575.	3.2	55
44	Optical Trapping of Unilamellar Phospholipid Vesicles:Â Investigation of the Effect of Optical Forces on the Lipid Membrane Shape by Confocal-Raman Microscopy. <i>Analytical Chemistry</i> , 2004, 76, 4920-4928.	3.2	55
45	Pulse generation in a cw dye laser by modeâlocked synchronous pumping. <i>Applied Physics Letters</i> , 1975, 26, 16-18.	1.5	54
46	Lateral Diffusion of Molecules Partitioned into C-18 Ligands on Silica Surfaces. <i>Analytical Chemistry</i> , 1995, 67, 492-498.	3.2	52
47	Multichannel detection and numerical resolution of overlapping chromatographic peaks. <i>Analytical Chemistry</i> , 1981, 53, 821-825.	3.2	51
48	In Situ ATR-FT-IR Kinetic Studies of Molecular Transport and Surface Binding in Thin SolâGel Films:Â Reactions of Chlorosilane Reagents in Porous Silica Materials. <i>Analytical Chemistry</i> , 2001, 73, 411-423.	3.2	51
49	In Situ Adsorption Studies at Silica/Solution Interfaces by Attenuated Total Internal Reflection Fourier Transform Infrared Spectroscopy:Â Examination of Adsorption Models in Normal-Phase Liquid Chromatography. <i>Analytical Chemistry</i> , 2000, 72, 1543-1554.	3.2	50
50	Single-Molecule Fluorescence Imaging of Interfacial DNA Hybridization Kinetics at Selective Capture Surfaces. <i>Analytical Chemistry</i> , 2016, 88, 1345-1354.	3.2	50
51	Comparison of single- and dual-beam configurations for thermal lens spectrometry. <i>Analytical Chemistry</i> , 1983, 55, 1256-1261.	3.2	49
52	Reiterative least-squares spectral resolution of organic acid/base mixtures. <i>Analytical Chemistry</i> , 1984, 56, 466-470.	3.2	49
53	Computer Modeling of Atomic Force Microscopy Force Measurements:Â Comparisons of Poisson, Histogram, and Continuum Methods. <i>Langmuir</i> , 1999, 15, 207-213.	1.6	48
54	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, 1394-1400.	1.2	47

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55	Fluorescence Imaging of Single-Molecule Retention Trajectories in Reversed-Phase Chromatographic Particles. <i>Analytical Chemistry</i> , 2013, 85, 9363-9370.	3.2	47
56	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.	1.2	45
57	Thermal lens measurements of optical computation of the laser beam spot size. <i>Analytical Chemistry</i> , 1985, 57, 1698-1703.	3.2	44
58	Raman Spectroscopy Reveals Selective Interactions of Cytochrome <i>c</i> with Cardiolipin That Correlate with Membrane Permeability. <i>Journal of the American Chemical Society</i> , 2017, 139, 3851-3860.	6.6	44
59	Supercritical fluids as spectroscopic solvents for thermo-optical absorption measurements. <i>Analytical Chemistry</i> , 1984, 56, 1481-1487.	3.2	43
60	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.	1.2	43
61	Single-Molecule Fluorescence Imaging of Peptide Binding to Supported Lipid Bilayers. <i>Analytical Chemistry</i> , 2009, 81, 5130-5138.	3.2	42
62	Quantitative Detection of Single Molecules in Fluorescence Microscopy Images. <i>Analytical Chemistry</i> , 2010, 82, 189-196.	3.2	42
63	UV Fluorescence Lifetime Modification by Aluminum Nanoapertures. <i>ACS Photonics</i> , 2014, 1, 1270-1277.	3.2	42
64	Laser-induced thermal diffraction for calorimetric absorption measurements. <i>Analytical Chemistry</i> , 1982, 54, 239-242.	3.2	41
65	Multiwavelength detection and reiterative least squares resolution of overlapped liquid chromatographic peaks. <i>Analytical Chemistry</i> , 1985, 57, 1552-1559.	3.2	41
66	Structure of alkylated silica surfaces: quenching of fluorescence from covalently bound pyrene. <i>Analytical Chemistry</i> , 1991, 63, 1076-1081.	3.2	41
67	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.	6.6	40
68	Lateral Diffusion of Molecules Partitioned into Silica-Bound Alkyl Chains: Influence of Chain Length and Bonding Density. <i>Analytical Chemistry</i> , 1996, 68, 2879-2884.	3.2	40
69	Quantitative SERS Measurements on Dielectric-Overcoated Silver-Island Films by Solution-Deposition Control of Surface Concentrations. <i>Analytical Chemistry</i> , 1999, 71, 2564-2570.	3.2	40
70	Multiple internal reflection Fourier transform infrared spectroscopic studies of thiocyanate adsorption on silver and gold. <i>Langmuir</i> , 1990, 6, 209-217.	1.6	39
71	Temperature-Controlled Confocal Raman Microscopy to Detect Phase Transitions in Phospholipid Vesicles. <i>Applied Spectroscopy</i> , 2007, 61, 465-469.	1.2	39
72	Thermal lens absorption measurements on small volume samples. <i>Analytical Chemistry</i> , 1984, 56, 922-925.	3.2	38

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73	Quantitative Dosing of Surfaces with Fluorescent Molecules: Characterization of Fractional Monolayer Coverages by Counting Single Molecules. <i>Analytical Chemistry</i> , 2001, 73, 5030-5037.	3.2	38
74	Total Internal Reflection Fluorescence-Correlation Spectroscopy Study of Molecular Transport in Thin Sol-Gel Films. <i>Analytical Chemistry</i> , 2003, 75, 3616-3624.	3.2	38
75	Surface-Enhanced Raman Spectroscopy Investigation of the Potential-Dependent Acid-Base Chemistry of Silver-Immobilized 2-Mercaptobenzoic Acid. <i>Langmuir</i> , 2011, 27, 3527-3533.	1.6	37
76	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.	1.5	37
77	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.	1.8	36
78	Fluorescence Correlation Spectroscopy with Patterned Photoexcitation for Measuring Solution Diffusion Coefficients of Robust Fluorophores. <i>Analytical Chemistry</i> , 1998, 70, 1281-1287.	3.2	36
79	Surface Diffusion of Organosiloxane Ligands Covalently Bound to Silica. <i>Journal of the American Chemical Society</i> , 1994, 116, 5754-5761.	6.6	35
80	Confocal Raman Microscopy of Optical-Trapped Particles in Liquids. <i>Annual Review of Analytical Chemistry</i> , 2010, 3, 277-297.	2.8	35
81	Spectrophotometric determination of metals at trace levels by flow injection and series differential detection. <i>Analytical Chemistry</i> , 1983, 55, 1669-1673.	3.2	34
82	Least-squares polynomial filters for initial point and slope estimation. <i>Analytical Chemistry</i> , 1984, 56, 2304-2307.	3.2	34
83	Imaging Fluorescence-Correlation Spectroscopy for Measuring Fast Surface Diffusion at Liquid/Solid Interfaces. <i>Analytical Chemistry</i> , 2014, 86, 7618-7626.	3.2	34
84	Real-time thermal lens absorption measurements with application to flow-injection systems. <i>Analytica Chimica Acta</i> , 1984, 164, 91-101.	2.6	33
85	Thermal lens absorption measurements by flow injection into supercritical fluid solvents. <i>Analytical Chemistry</i> , 1984, 56, 2801-2805.	3.2	32
86	Least squares singular value decomposition for the resolution of pK's and spectra from organic acid/base mixtures. <i>Analytical Chemistry</i> , 1985, 57, 1718-1721.	3.2	32
87	A simple synthesis of catalytically active, high surface area ceria aerogels. <i>Journal of Non-Crystalline Solids</i> , 2008, 354, 5509-5514.	1.5	32
88	Single-Layer Graphene Sandwiched between Proton-Exchange Membranes for Selective Proton Transmission. <i>ACS Applied Nano Materials</i> , 2019, 2, 964-974.	2.4	32
89	Properties of electrochemically generated poly(p-phenylene). <i>Electrochimica Acta</i> , 1989, 34, 599-610.	2.6	31
90	Controlling Binding Site Densities on Glass Surfaces. <i>Analytical Chemistry</i> , 2006, 78, 7841-7849.	3.2	31

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91	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, 1725-1729.	1.3	31
92	Flow injection of ultratrace level samples into laser-based detectors. <i>Analytical Chemistry</i> , 1982, 54, 2337-2340.	3.2	30
93	Infrared Laser-Induced Thermal Lens Calorimetry. <i>Applied Spectroscopy</i> , 1982, 36, 309-314.	1.2	30
94	Modifying the Adsorption Behavior of Polyamidoamine Dendrimers at Silica Surfaces Investigated by Total Internal Reflection Fluorescence Correlation Spectroscopy. <i>Analytical Chemistry</i> , 2004, 76, 930-938.	3.2	30
95	Long Path Length Samples in Thermal Lens Calorimetry. <i>Applied Spectroscopy</i> , 1983, 37, 166-172.	1.2	29
96	Surface-Enhanced Raman Scattering Study of the Kinetics of Self-Assembly of Carboxylate-Terminated <i>n</i> -Alkanethiols on Silver. <i>Langmuir</i> , 2012, 28, 2628-2636.	1.6	29
97	Confocal Raman Microscopy for in Situ Detection of Solid-Phase Extraction of Pyrene into Single C18-Silica Particles. <i>Analytical Chemistry</i> , 2014, 86, 1719-1725.	3.2	29
98	Single-Molecule Kinetic Investigation of Cocaine-Dependent Split-Aptamer Assembly. <i>Analytical Chemistry</i> , 2018, 90, 12964-12970.	3.2	29
99	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.	1.2	28
100	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, 1891-1901.	3.2	28
101	In-situ fluorescence studies of aluminum ion complexation by 8-hydroxyquinoline covalently bound to silica. <i>Analytical Chemistry</i> , 1989, 61, 1001-1010.	3.2	27
102	Microscopic Rates of Peptide-Phospholipid Bilayer Interactions from Single-Molecule Residence Times. <i>Journal of the American Chemical Society</i> , 2012, 134, 19652-19660.	6.6	27
103	Confocal Raman Microscopy Probing of Temperature-Controlled Release from Individual, Optically-Trapped Phospholipid Vesicles. <i>Analytical Chemistry</i> , 2012, 84, 9505-9512.	3.2	27
104	Laser intracavity photothermal beam deflection spectroscopy. <i>Analytical Chemistry</i> , 1984, 56, 2975-2977.	3.2	26
105	In situ fluorescence detection of polycyclic aromatic hydrocarbons following preconcentration on alkylated silica adsorbents. <i>Analytical Chemistry</i> , 1988, 60, 698-702.	3.2	26
106	Poly(amidoamine) Dendrimers as Nanoscale Diffusion Probes in Sol-Gel Films Investigated by Total Internal Reflection Fluorescence Spectroscopy. <i>Analytical Chemistry</i> , 2004, 76, 939-946.	3.2	26
107	Single Molecule Tracking Studies of Lower Critical Solution Temperature Transition Behavior in Poly(<i>N</i> -isopropylacrylamide). <i>Langmuir</i> , 2011, 27, 11037-11043.	1.6	26
108	Shot noise sets the limit of quantification in electrochemical measurements. <i>Current Opinion in Electrochemistry</i> , 2020, 22, 170-177.	2.5	26

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109	Diffraction from two-photon-excited thermal index gratings. <i>Optics Letters</i> , 1985, 10, 140.	1.7	25
110	Total Internal Reflection Fluorescence for Adsorbed Probe Molecule Studies of Liquid/Solid Interfacial Environments. <i>Applied Spectroscopy</i> , 1989, 43, 81-87.	1.2	25
111	Temperature-Jump Investigation of Sorption/Desorption Kinetics at Reversed-Phase Chromatographic Silica/Solution Interfaces. <i>Analytical Chemistry</i> , 1994, 66, 2052-2061.	3.2	25
112	Competitive Assays of Label-Free DNA Hybridization with Single-Molecule Fluorescence Imaging Detection. <i>Analytical Chemistry</i> , 2016, 88, 6410-6417.	3.2	25
113	Attenuated Total Reflection FT-IR Spectroscopy to Measure Interfacial Reaction Kinetics at Silica Surfaces. <i>Applied Spectroscopy</i> , 1988, 42, 997-1004.	1.2	24
114	Studies of excited-state absorption and photoisomerization of cyanine dyes by using laser-induced anharmonic thermal gratings. <i>Chemical Physics</i> , 1990, 142, 301-309.	0.9	24
115	Double-beam thermal lens spectrometry. <i>Analytical Chemistry</i> , 1985, 57, 2434-2436.	3.2	23
116	Time- and Wavelength-Resolved Delayed-Fluorescence Emission from Acridine Yellow in an Inhomogeneous Saccharide Glass. <i>Analytical Chemistry</i> , 1996, 68, 639-646.	3.2	23
117	In Situ Studies of Pyridine Adsorption to Bare and Cyano-Derivatized Silica Solâ™Gel Films Using Attenuated-Total-Internal-Reflection Fourier-Transform Infrared Spectroscopy. <i>Langmuir</i> , 2001, 17, 5527-5536.	1.6	23
118	Measuring Diffusion of Molecules into Individual Polymer Particles by Confocal Raman Microscopy. <i>Analytical Chemistry</i> , 2006, 78, 2121-2129.	3.2	23
119	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.	6.6	23
120	Enhancement of Electrocatalytic Oxidation of Glycerol by Plasmonics. <i>ChemElectroChem</i> , 2019, 6, 241-245.	1.7	23
121	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.	6.6	23
122	Optically Trapping Confocal Raman Microscopy of Individual Lipid Vesicles: Kinetics of Phospholipase A2-Catalyzed Hydrolysis of Phospholipids in the Membrane Bilayer. <i>Analytical Chemistry</i> , 2006, 78, 6928-6935.	3.2	22
123	In Situ Raman Spectroscopy Studies of Metal Ion Complexation by 8-Hydroxyquinoline Covalently Bound to Silica Surfaces. <i>Analytical Chemistry</i> , 2002, 74, 5112-5120.	3.2	21
124	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.	1.6	21
125	Identification of Individual Immobilized DNA Molecules by Their Hybridization Kinetics Using Single-Molecule Fluorescence Imaging. <i>Analytical Chemistry</i> , 2018, 90, 5007-5014.	3.2	21
126	Influence of photoisomerization on saturated absorption of 3,3'-diethyloxadicyanin iodide (DODCI) studied by diffraction from laser-induced, anharmonic thermal gratings. <i>Chemical Physics</i> , 1988, 124, 321-332.	0.9	20

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127	Single Layer Graphene for Estimation of Axial Spatial Resolution in Confocal Raman Microscopy Depth Profiling. <i>Analytical Chemistry</i> , 2019, 91, 1049-1055.	3.2	20
128	Anharmonic forced Rayleigh scattering: A technique for study of saturated absorption in liquids. <i>Journal of Chemical Physics</i> , 1987, 86, 2536-2547.	1.2	19
129	Surface-Enhanced Raman Spectroscopy Studies of Surfactant Adsorption to a Hydrophobic Interface. <i>Applied Spectroscopy</i> , 2008, 62, 149-156.	1.2	19
130	Fluorescence Microscopy of the Pressure-Dependent Structure of Lipid Bilayers Suspended across Conical Nanopores. <i>Journal of the American Chemical Society</i> , 2011, 133, 7810-7815.	6.6	19
131	Fluorescence-Correlation Spectroscopy Study of Molecular Transport within Reversed-Phase Chromatographic Particles Compared to Planar Model Surfaces. <i>Analytical Chemistry</i> , 2014, 86, 11766-11772.	3.2	19
132	Self-Assembly of a Triangle-Shaped, Hexaplatinum-Incorporated, Supramolecular Amphiphile in Solution and at Interfaces. <i>Chemistry - A European Journal</i> , 2009, 15, 8566-8577.	1.7	18
133	Quantitative Confocal Raman Microscopy Study of Ion-Interaction Retention at Reversed-Phase Chromatographic Interfaces. <i>Analytical Chemistry</i> , 2010, 82, 5743-5750.	3.2	18
134	Pulsed laser induced thermal diffraction for absorption measurements in small volumes. <i>Analytical Chemistry</i> , 1983, 55, 1537-1543.	3.2	17
135	Reactivity of organosilane reagents on microparticulate silica. <i>Analytical Chemistry</i> , 1986, 58, 748-752.	3.2	17
136	Quantitative estimation of component amplitudes in multiexponential data: application to time-resolved fluorescence spectroscopy. <i>Analytical Chemistry</i> , 1989, 61, 2310-2315.	3.2	17
137	Temperature-Jump Investigation of Adsorption/Desorption Kinetics at Methylated Silica/Solution Interfaces. <i>Analytical Chemistry</i> , 1995, 67, 3441-3447.	3.2	17
138	Confocal Raman Microscopy of the Interfacial Regions of Liquid Chromatographic Stationary-Phase Materials. <i>Analytical Chemistry</i> , 2009, 81, 2869-2876.	3.2	17
139	Structural Characterization of Individual Vesicles using Fluorescence Microscopy. <i>Analytical Chemistry</i> , 2011, 83, 4909-4915.	3.2	17
140	Confocal Raman Microscopy of Hybrid-Supported Phospholipid Bilayers within Individual C ₁₈ -Functionalized Chromatographic Particles. <i>Langmuir</i> , 2016, 32, 9033-9044.	1.6	17
141	Time correlation method for measuring fluorescence decays with a cw laser. <i>Review of Scientific Instruments</i> , 1979, 50, 333-336.	0.6	16
142	Temperature-induced changes in reversed-phase chromatographic surfaces. <i>Journal of Chromatography A</i> , 1989, 481, 135-146.	1.8	16
143	Thermal Lens Absorption Measurements in Binary Liquid Mixtures near the Consolute Critical Point. <i>Applied Spectroscopy</i> , 1986, 40, 606-611.	1.2	15
144	Predicting the statistical properties of least-squares polynomial filters. <i>Analytical Chemistry</i> , 1990, 62, 2749-2752.	3.2	15

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145	Confocal Raman Microscopy of pH-Gradient-Based 10 ⁴ -Fold Preconcentration of Compounds within Individual, Optically Trapped Phospholipid Vesicles. <i>Analytical Chemistry</i> , 2011, 83, 6098-6105.	3.2	15
146	Simple, inexpensive photodetector for subnanosecond sources. <i>Review of Scientific Instruments</i> , 1980, 51, 988-989.	0.6	14
147	Anharmonic forced Rayleigh scattering. <i>Physical Review A</i> , 1986, 34, 4829-4842.	1.0	14
148	Modification of quartz surfaces via thiol-disulfide interchange. <i>Langmuir</i> , 1991, 7, 307-313.	1.6	14
149	Photothermal grating spectroscopy study of nongeminate atom recombination of photodissociated iodine in liquids. <i>Chemical Physics</i> , 1991, 157, 409-422.	0.9	14
150	Temperature-Jump Investigation of Alkyl Chain Length Effects on Sorption/Desorption Kinetics at Reversed-Phase Chromatographic Interfaces. <i>Analytical Chemistry</i> , 1996, 68, 1651-1657.	3.2	14
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