

Carey K Johnson

List of Publications by Year in descending order

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83
papers

1,733
citations

304743

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330143

37
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83
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83
docs citations

83
times ranked

1784
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparison of separation modes for microchip electrophoresis of proteins. <i>Journal of Separation Science</i> , 2021, 44, 744-751.	2.5	3
2	Microchip electrophoresis assay for calmodulin binding proteins. <i>Journal of Separation Science</i> , 2021, 44, 895-902.	2.5	2
3	Dynamic elements and kinetics: Most favorable conformations of peptides in solution with measurements and simulations. <i>Journal of Chemical Physics</i> , 2019, 151, 225102.	3.0	6
4	Two-color frequency CARS imaging by switching fiber laser excitation. <i>Microscopy Research and Technique</i> , 2018, 81, 413-418.	2.2	3
5	Exploring the conformations of nitric oxide synthase with fluorescence. <i>Frontiers in Bioscience - Landmark</i> , 2018, 23, 2133-2145.	3.0	4
6	Single-Molecule FRET States, Conformational Interchange, and Conformational Selection by Dye Labels in Calmodulin. <i>Journal of Physical Chemistry B</i> , 2016, 120, 4357-4364.	2.6	7
7	Tracking and localization of calmodulin in live cells. <i>Biochimica Et Biophysica Acta - Molecular Cell Research</i> , 2016, 1863, 2017-2026.	4.1	10
8	Reorientation Motion and Preferential Interactions of a Peptide in Denaturants and Osmolyte. <i>Journal of Physical Chemistry B</i> , 2016, 120, 3089-3099.	2.6	22
9	Fluorescence quenching studies of structure and dynamics in calmodulin-eNOS complexes. <i>FEBS Letters</i> , 2015, 589, 1173-1178.	2.8	17
10	Multi-modal label-free imaging based on a femtosecond fiber laser. <i>Biomedical Optics Express</i> , 2014, 5, 2390.	2.9	15
11	Detailed Microscopic Unfolding Pathways of an $\hat{1}\pm$ -Helix and a $\hat{1}^2$ -Hairpin: Direct Observation and Molecular Dynamics. <i>Journal of Physical Chemistry B</i> , 2014, 118, 7233-7246.	2.6	11
12	Reconstruction of calmodulin single-molecule FRET states, dye interactions, and CaMKII peptide binding by MultiNest and classic maximum entropy. <i>Chemical Physics</i> , 2013, 422, 238-245.	1.9	6
13	Single-fiber-laser-based wavelength tunable excitation for coherent Raman spectroscopy. <i>Journal of the Optical Society of America B: Optical Physics</i> , 2013, 30, 1671.	2.1	13
14	Classic Maximum Entropy Recovery of the Average Joint Distribution of Apparent FRET Efficiency and Fluorescence Photons for Single-Molecule Burst Measurements. <i>Journal of Physical Chemistry B</i> , 2012, 116, 4006-4015.	2.6	8
15	Fiber laser based two-photon fret measurement of calmodulin and mcherry ⁰ GFP proteins. <i>Microscopy Research and Technique</i> , 2012, 75, 837-843.	2.2	4
16	FRET-FCS Detection of Intralobe Dynamics in Calmodulin. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9320-9326.	2.6	30
17	Tunable excitation source for coherent Raman spectroscopy based on a single fiber laser. <i>Applied Physics Letters</i> , 2011, 99, 181112.	3.3	13
18	A distribution-based method to resolve single-molecule Förster resonance energy transfer observations. <i>Journal of Chemical Physics</i> , 2011, 134, 145101.	3.0	4

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19	Single-Protein Dynamics and the Regulation of the Plasma-Membrane Ca ²⁺ Pump. , 2011, , 121-151.		1
20	Cometary airbursts and atmospheric chemistry: Tunguska and a candidate Younger Dryas event. <i>Geology</i> , 2010, 38, 355-358.	4.4	27
21	Detecting Intramolecular Dynamics and Multiple Förster Resonance Energy Transfer States by Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5895-5902.	2.6	46
22	Reorientations of Aromatic Amino Acids and Their Side Chain Models: Anisotropy Measurements and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry A</i> , 2010, 114, 133-142.	2.5	15
23	Fluorescence polarization assay for calmodulin binding to plasma membrane Ca ²⁺ -ATPase: Dependence on enzyme and Ca ²⁺ concentrations. <i>Analytical Biochemistry</i> , 2009, 385, 1-6.	2.4	7
24	Conformational Heterogeneity of a Leucine Enkephalin Analogue in Aqueous Solution and Sodium Dodecyl Sulfate Micelles: Comparison of Time-Resolved FRET and Molecular Dynamics Simulations. <i>Journal of Physical Chemistry B</i> , 2009, 113, 14381-14392.	2.6	13
25	Switching of 800 nm femtosecond laser pulses using a compact PMN-PT modulator. <i>Review of Scientific Instruments</i> , 2009, 80, 033107.	1.3	10
26	Interchange of autoinhibitory domain conformations in plasma membrane Ca ²⁺ -ATPase-calmodulin complexes. <i>Protein Science</i> , 2008, 17, 555-562.	7.6	5
27	Mechanism of Calmodulin Recognition of the Binding Domain of Isoform 1b of the Plasma Membrane Ca ²⁺ -ATPase: Kinetic Pathway and Effects of Methionine Oxidation. <i>Biochemistry</i> , 2007, 46, 4045-4054.	2.5	20
28	Tyrosyl Rotamer Interconversion Rates and the Fluorescence Decays of N-Acetyltyrosinamide and Short Tyrosyl Peptides. <i>Journal of Physical Chemistry B</i> , 2007, 111, 5494-5502.	2.6	16
29	Single molecule analyses of the conformational substates of calmodulin bound to the phosphorylase kinase complex. <i>Protein Science</i> , 2007, 16, 1017-1023.	7.6	15
30	Calmodulin, Conformational States, and Calcium Signaling. A Single-Molecule Perspective. <i>Biochemistry</i> , 2006, 45, 14233-14246.	2.5	60
31	Two-photon microscopy with wavelength switchable fiber laser excitation. <i>Optics Express</i> , 2006, 14, 9825.	3.4	81
32	Evaluation of a femtosecond fiber laser for two-photon fluorescence correlation spectroscopy. <i>Microscopy Research and Technique</i> , 2006, 69, 891-893.	2.2	9
33	Fluorescence Probes of Protein Dynamics and Conformations in Freely Diffusing Molecules. , 2006, , 239-259.		5
34	Single-Molecule Fluorescence Spectroscopy: New Probes of Protein Function and Dynamics. <i>Physiology</i> , 2005, 20, 10-14.	3.1	7
35	DNA Aptamer-Based Bioanalysis of IgE by Fluorescence Anisotropy. <i>Analytical Chemistry</i> , 2005, 77, 1963-1970.	6.5	172
36	Conformational Substates of Calmodulin Revealed by Single-Pair Fluorescence Resonance Energy Transfer: Influence of Solution Conditions and Oxidative Modification. <i>Biochemistry</i> , 2005, 44, 3694-3707.	2.5	44

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37	Single-Molecule Tracking of Sub-millisecond Domain Motion in Calmodulin. <i>Journal of Physical Chemistry B</i> , 2005, 109, 12658-12662.	2.6	15
38	Single-Molecule Characterization of the Dynamics of Calmodulin Bound to Oxidatively Modified Plasma-Membrane Ca ²⁺ -ATPase. <i>Biochemistry</i> , 2005, 44, 11074-11081.	2.5	21
39	Sampling Unfolding Intermediates in Calmodulin by Single-Molecule Spectroscopy. <i>Journal of the American Chemical Society</i> , 2005, 127, 12107-12114.	13.7	26
40	Mechanism of interaction of PIP ₂ with membranes: Conformational changes in the C-terminus associated with membrane binding. <i>Archives of Biochemistry and Biophysics</i> , 2005, 444, 112-120.	3.0	6
41	Orientational Dynamics and Dye-DNA Interactions in a Dye-Labeled DNA Aptamer. <i>Biophysical Journal</i> , 2005, 88, 3455-3465.	0.5	94
42	Fluorescence Properties of Fluorescein, Tetramethylrhodamine and Texas Red Linked to a DNA Aptamer. <i>Photochemistry and Photobiology</i> , 2005, 81, 682-690.	2.5	10
43	Fluorescence Properties of Fluorescein, Tetramethylrhodamine, and Texas Red linked to a DNA Aptamer. <i>Photochemistry and Photobiology</i> , 2005, 81, 682-90.	2.5	19
44	Fluorescence labeling, purification, and immobilization of a double cysteine mutant calmodulin fusion protein for single-molecule experiments. <i>Analytical Biochemistry</i> , 2004, 325, 273-284.	2.4	53
45	Single-Molecule Resonance Energy Transfer and Fluorescence Correlation Spectroscopy of Calmodulin in Solution. <i>Journal of Physical Chemistry B</i> , 2004, 108, 10388-10397.	2.6	60
46	Single-Molecule Assays of Calmodulin Target Binding Detected with a Calmodulin Energy-Transfer Construct. <i>Analytical Chemistry</i> , 2004, 76, 3630-3637.	6.5	17
47	Single-Molecule Dynamics of the Calcium-Dependent Activation of Plasma-Membrane Ca ²⁺ -ATPase by Calmodulin. <i>Biophysical Journal</i> , 2004, 87, 1892-1899.	0.5	32
48	Single-Molecule Dynamics Reveal an Altered Conformation for the Autoinhibitory Domain of Plasma Membrane Ca ²⁺ -ATPase Bound to Oxidatively Modified Calmodulin. <i>Biochemistry</i> , 2004, 43, 12937-12944.	2.5	22
49	Maximum-Likelihood Approach to Single-Molecule Polarization Modulation Analysis. <i>ChemPhysChem</i> , 2003, 4, 1005-1011.	2.1	21
50	Tyrosine and peptide reorientational mobility in polymer solutions: Time-dependent fluorescence anisotropy measurements. <i>Biopolymers</i> , 2003, 69, 351-362.	2.4	1
51	Ab Initio and Density Functional Study of the Electronic Transitions of Indoline and Indoline-2-Carboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5670-5680.	2.5	15
52	Spectroscopy and Photophysics of Indoline and Indoline-2-Carboxylic Acid. <i>Journal of Physical Chemistry A</i> , 2003, 107, 5660-5669.	2.5	14
53	Solvent Dependence of Electronic Relaxation in All-trans Retinal Studied by One- and Two-Photon Induced Transient Absorption. <i>Journal of Physical Chemistry A</i> , 2001, 105, 8136-8144.	2.5	11
54	Microscopic Details of Rotational Diffusion of Perylene in Organic Solvents: A Molecular Dynamics Simulation and Experiment vs Debye-Stokes-Einstein Theory. <i>Journal of Physical Chemistry A</i> , 2000, 104, 9841-9852.	2.5	27

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55	Complementary Analysis of Peptide Aggregation by NMR and Time-Resolved Laser Spectroscopy. <i>Journal of Physical Chemistry B</i> , 1999, 103, 2262-2269.	2.6	12
56	Temperature-Dependent Study of the Ultrafast Photophysics of All-TransRetinal. <i>Journal of Physical Chemistry B</i> , 1999, 103, 10917-10923.	2.6	10
57	Rotational relaxation of perylene in n-alcohols and n-alkanes studied by two-photon-induced anisotropy decay. <i>Chemical Physics</i> , 1998, 237, 205-222.	1.9	29
58	Time-Resolved Fluorescence Study of Conformational Dynamics in Opioid Peptides. <i>Journal of Physical Chemistry B</i> , 1998, 102, 5004-5010.	2.6	6
59	Exciplex Formation in Complexes between Cyclophane Hosts and Aromatic Guests: Evidence That the Ground-State Complexes Exist in More Than One Distinct Geometry. <i>Journal of Organic Chemistry</i> , 1998, 63, 9935-9945.	3.2	13
60	Influence of temperature and viscosity on anthracene rotational diffusion in organic solvents: Molecular dynamics simulations and fluorescence anisotropy study. <i>Journal of Chemical Physics</i> , 1997, 107, 8800-8812.	3.0	60
61	Reorientational Motions of the D96N and T46V/D96N Mutants of Bacteriorhodopsin in the Purple Membrane. <i>Photochemistry and Photobiology</i> , 1997, 66, 133-139.	2.5	2
62	Fluorescence and Rotational Dynamics of Dityrosine. <i>Journal of Fluorescence</i> , 1997, 7, 283-292.	2.5	62
63	Tyrosyl Fluorescence Decays and Rotational Dynamics in Tyrosine Monomers and in Dipeptides. <i>Journal of Fluorescence</i> , 1997, 7, 273-282.	2.5	26
64	An ultrafast one-photon and two-photon transient absorption study of the solvent-dependent photophysics in all-trans retinal. <i>Chemical Physics Letters</i> , 1997, 265, 161-168.	2.6	26
65	Picosecond Time-Resolved Fourier-Transform Raman Spectroscopy and Normal-Mode Analysis of the Ground State and Singlet Excited State of Anthracene. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11857-11862.	2.9	15
66	Chromophore Reorientation Relative to the Membrane Plane Detected by Time-Resolved Linear Dichroism during the Bacteriorhodopsin Photocycle in Oriented Purple Membrane. <i>The Journal of Physical Chemistry</i> , 1996, 100, 15605-15613.	2.9	6
67	Picosecond Time-Resolved Fourier Transform Raman Spectroscopy of 9,10-Diphenylanthracene in the Excited Singlet State. <i>Applied Spectroscopy</i> , 1995, 49, 645-649.	2.2	6
68	A Fourier-transform Raman study of the temperature dependence of chromophore conformation in light-adapted and dark-adapted bacteriorhodopsin. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 1937-1942.	0.1	3
69	Step-scan near-infrared Fourier-transform Raman spectroscopy with 100 picosecond laser pulses. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1994, 50, 1825-1831.	0.1	9
70	Time-resolved anisotropic two-photon spectroscopy. <i>Chemical Physics</i> , 1994, 179, 513-531.	1.9	65
71	Time-resolved two-photon induced anisotropy decay: The rotational diffusion regime. <i>Journal of Chemical Physics</i> , 1994, 101, 10283-10291.	3.0	32
72	Two-photon-induced anisotropic transient absorption in bacteriorhodopsin. <i>Chemical Physics Letters</i> , 1993, 210, 94-100.	2.6	14

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73	Time-resolved anisotropic coherent anti-Stokes Raman scattering: A new probe of reorientational dynamics. <i>Journal of Chemical Physics</i> , 1993, 99, 7602-7613.	3.0	8
74	Near-infrared excitation of Raman scattering by chromophoric proteins. <i>Spectrochimica Acta Part A: Molecular Spectroscopy</i> , 1991, 47, 1413-1421.	0.1	18
75	Picosecond laser timing by rf phase shifting. <i>Review of Scientific Instruments</i> , 1990, 61, 1158-1160.	1.3	11
76	The Intramolecular Loss of Fluorescence by Lysine Derivatized with Naphthalenedialdehyde. <i>Applied Spectroscopy</i> , 1990, 44, 858-863.	2.2	4
77	Fourier Transform Raman Spectroscopy of Photoactive Proteins with Near-Infrared Excitation. <i>Applied Spectroscopy</i> , 1990, 44, 1103-1106.	2.2	22
78	Nonresonant hyper-Raman and hyper-Rayleigh scattering in benzene and pyridine. <i>Journal of Chemical Physics</i> , 1989, 90, 4719-4726.	3.0	43
79	Photochemical hole burning in bacteriorhodopsin. <i>Chemical Physics Letters</i> , 1989, 156, 227-232.	2.6	12
80	Dual picosecond dye lasers pumped by synchronized mode-locked and Q-switched Cw Nd:YAG lasers. <i>Optics Communications</i> , 1988, 69, 54-59.	2.1	6
81	Picosecond time-resolved laser spectrometer with expanded delay range. <i>Review of Scientific Instruments</i> , 1988, 59, 2375-2379.	1.3	10
82	Variable wave vector second harmonic generation in phenanthrene. <i>Journal of Chemical Physics</i> , 1982, 76, 3837-3838.	3.0	6
83	Energetics and Scattering of Mixed Exciton-Photon States in Organic Crystals. <i>Excited States</i> , 1982, 6, 97-216.	0.5	2