Carey K Johnson

List of Publications by Year
in descending order

83 papers	1,733 citations	304743 22 h-index	330143 37 g-index
83 all docs	83 docs citations	83 times ranked	1784 citing authors

#	Article	IF	Citations
1	DNA Aptamer-Based Bioanalysis of IgE by Fluorescence Anisotropy. Analytical Chemistry, 2005, 77, 1963-1970.	6.5	172
2	Orientational Dynamics and Dye-DNA Interactions in a Dye-Labeled DNA Aptamer. Biophysical Journal, 2005, 88, 3455-3465.	0.5	94
3	Two-photon microscopy with wavelength switchable fiber laser excitation. Optics Express, 2006, 14, 9825.	3.4	81
4	Time-resolved anisotropic two-photon spectroscopy. Chemical Physics, 1994, 179, 513-531.	1.9	65
5	Fluorescence and Rotational Dynamics of Dityrosine. Journal of Fluorescence, 1997, 7, 283-292.	2.5	62
6	Influence of temperature and viscosity on anthracene rotational diffusion in organic solvents: Molecular dynamics simulations and fluorescence anisotropy study. Journal of Chemical Physics, 1997, 107, 8800-8812.	3.0	60
7	Single-Molecule Resonance Energy Transfer and Fluorescence Correlation Spectroscopy of Calmodulin in Solutionâ€. Journal of Physical Chemistry B, 2004, 108, 10388-10397.	2.6	60
8	Calmodulin, Conformational States, and Calcium Signaling. A Single-Molecule Perspective. Biochemistry, 2006, 45, 14233-14246.	2.5	60
9	Fluorescence labeling, purification, and immobilization of a double cysteine mutant calmodulin fusion protein for single-molecule experiments. Analytical Biochemistry, 2004, 325, 273-284.	2.4	53
10	Detecting Intramolecular Dynamics and Multiple FÃ¶rster Resonance Energy Transfer States by Fluorescence Correlation Spectroscopy. Journal of Physical Chemistry B, 2010, 114, 5895-5902.	2.6	46
11	Conformational Substates of Calmodulin Revealed by Single-Pair Fluorescence Resonance Energy Transfer:Â Influence of Solution Conditions and Oxidative Modificationâ€. Biochemistry, 2005, 44, 3694-3707.	2.5	44
12	Nonresonant hyperâ€Raman and hyperâ€Rayleigh scattering in benzene and pyridine. Journal of Chemical Physics, 1989, 90, 4719-4726.	3.0	43
13	Timeâ€resolved twoâ€photon induced anisotropy decay: The rotational diffusion regime. Journal of Chemical Physics, 1994, 101, 10283-10291.	3.0	32
14	Single-Molecule Dynamics of the Calcium-Dependent Activation of Plasma-Membrane Ca2+-ATPase by Calmodulin. Biophysical Journal, 2004, 87, 1892-1899.	0.5	32
15	FRET-FCS Detection of Intralobe Dynamics in Calmodulin. Journal of Physical Chemistry B, 2011, 115, 9320-9326.	2.6	30
16	Rotational relaxation of perylene in n-alcohols and n-alkanes studied by two-photon-induced anisotropy decay. Chemical Physics, 1998, 237, 205-222.	1.9	29
17	Microscopic Details of Rotational Diffusion of Perylene in Organic Solvents:Â Molecular Dynamics Simulation and Experiment vs Debyeâ€'Stokesâ€'Einstein Theory. Journal of Physical Chemistry A, 2000, 104, 9841-9852.	2.5	27
18	Cometary airbursts and atmospheric chemistry: Tunguska and a candidate Younger Dryas event. Geology, 2010, 38, 355-358.	4.4	27

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19	Tyrosyl Fluorescence Decays and Rotational Dynamics in Tyrosine Monomers and in Dipeptides. Journal of Fluorescence, 1997, 7, 273-282.	2.5	26
20	An ultrafast one-photon and two-photon transient absorption study of the solvent-dependent photophysics in all-trans retinal. Chemical Physics Letters, 1997, 265, 161-168.	2.6	26
21	Sampling Unfolding Intermediates in Calmodulin by Single-Molecule Spectroscopy. Journal of the American Chemical Society, 2005, 127, 12107-12114.	13.7	26
22	Fourier Transform Raman Spectroscopy of Photoactive Proteins with Near-Infrared Excitation. Applied Spectroscopy, 1990, 44, 1103-1106.	2.2	22
23	Single-Molecule Dynamics Reveal an Altered Conformation for the Autoinhibitory Domain of Plasma Membrane Ca2+-ATPase Bound to Oxidatively Modified Calmodulin. Biochemistry, 2004, 43, 12937-12944.	2.5	22
24	Reorientation Motion and Preferential Interactions of a Peptide in Denaturants and Osmolyte. Journal of Physical Chemistry B, 2016, 120, 3089-3099.	2.6	22
25	Maximum-Likelihood Approach to Single-Molecule Polarization Modulation Analysis. ChemPhysChem, 2003, 4, 1005-1011.	2.1	21
26	Single-Molecule Characterization of the Dynamics of Calmodulin Bound to Oxidatively Modified Plasma-Membrane Ca2+-ATPaseâ€. Biochemistry, 2005, 44, 11074-11081.	2.5	21
27	Mechanism of Calmodulin Recognition of the Binding Domain of Isoform 1b of the Plasma Membrane Ca2+-ATPase:â€‰ Kinetic Pathway and Effects of Methionine Oxidation. Biochemistry, 2007, 46, 4045-4054.	2.5	20
28	Fluorescence Properties of Fluorescein, Tetramethylrhodamine, and Texas Red linked to a DNA Aptamer. Photochemistry and Photobiology, 2005, 81, 682-90.	2.5	19
29	Near-infrared excitation of Raman scattering by chromophoric proteins. Spectrochimica Acta Part A: Molecular Spectroscopy, 1991, 47, 1413-1421.	0.1	18
30	Single-Molecule Assays of Calmodulin Target Binding Detected with a Calmodulin Energy-Transfer Construct. Analytical Chemistry, 2004, 76, 3630-3637.	6.5	17
31	Fluorescence quenching studies of structure and dynamics in calmodulinâ€“eNOS complexes. FEBS Letters, 2015, 589, 1173-1178.	2.8	17
32	Tyrosyl Rotamer Interconversion Rates and the Fluorescence Decays ofN-Acetyltyrosinamide and Short Tyrosyl Peptides. Journal of Physical Chemistry B, 2007, 111, 5494-5502.	2.6	16
33	Picosecond Time-Resolved Fourier-Transform Raman Spectroscopy and Normal-Mode Analysis of the Ground State and Singlet Excited State of Anthraceneâ€. The Journal of Physical Chemistry, 1996, 100, 11857-11862.	2.9	15
34	Ab Initio and Density Functional Study of the Electronic Transitions of Indoline and Indoline-2-Carboxylic Acid. Journal of Physical Chemistry A, 2003, 107, 5670-5680.	2.5	15
35	Single-Molecule Tracking of Sub-millisecond Domain Motion in Calmodulin. Journal of Physical Chemistry B, 2005, 109, 12658-12662.	2.6	15
36	Single molecule analyses of the conformational substates of calmodulin bound to the phosphorylase kinase complex. Protein Science, 2007, 16, 1017-1023.	7.6	15

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37	Reorientations of Aromatic Amino Acids and Their Side Chain Models: Anisotropy Measurements and Molecular Dynamics Simulations. Journal of Physical Chemistry A, 2010, 114, 133-142.	2.5	15
38	Multi-modal label-free imaging based on a femtosecond fiber laser. Biomedical Optics Express, 2014, 5, 2390.	2.9	15
39	Two-photon-induced anisotropic transient absorption in bacteriorhodopsin. Chemical Physics Letters, 1993, 210, 94-100.	2.6	14
40	Spectroscopy and Photophysics of Indoline and Indoline-2-Carboxylic Acid. Journal of Physical Chemistry A, 2003, 107, 5660-5669.	2.5	14
41	Exciplex Formation in Complexes between Cyclophane Hosts and Aromatic Guests:Â Evidence That the Ground-State Complexes Exist in More Than One Distinct Geometry. Journal of Organic Chemistry, 1998, 63, 9935-9945.	3.2	13
42	Conformational Heterogeneity of a Leucine Enkephalin Analogue in Aqueous Solution and Sodium Dodecyl Sulfate Micelles: Comparison of Time-Resolved FRET and Molecular Dynamics Simulations. Journal of Physical Chemistry B, 2009, 113, 14381-14392.	2.6	13
43	Tunable excitation source for coherent Raman spectroscopy based on a single fiber laser. Applied Physics Letters, 2011, 99, 181112.	3.3	13
44	Single-fiber-laser-based wavelength tunable excitation for coherent Raman spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2013, 30, 1671.	2.1	13
45	Photochemical hole burning in bacteriorhodopsin. Chemical Physics Letters, 1989, 156, 227-232.	2.6	12
46	Complementary Analysis of Peptide Aggregation by NMR and Time-Resolved Laser Spectroscopy. Journal of Physical Chemistry B, 1999, 103, 2262-2269.	2.6	12
47	Picosecond laser timing by rf phase shifting. Review of Scientific Instruments, 1990, 61, 1158-1160.	1.3	11
48	Solvent Dependence of Electronic Relaxation in All-trans Retinal Studied by One- and Two-Photon Induced Transient Absorption. Journal of Physical Chemistry A, 2001, 105, 8136-8144.	2.5	11
49	Detailed Microscopic Unfolding Pathways of an Î±-Helix and a Î²-Hairpin: Direct Observation and Molecular Dynamics. Journal of Physical Chemistry B, 2014, 118, 7233-7246.	2.6	11
50	Picosecond timeâ€resolved laser spectrometer with expanded delay range. Review of Scientific Instruments, 1988, 59, 2375-2379.	1.3	10
51	Temperature-Dependent Study of the Ultrafast Photophysics of All-TransRetinal. Journal of Physical Chemistry B, 1999, 103, 10917-10923.	2.6	10
52	Fluorescence Properties of Fluorescein, Tetramethylrhodamine and Texas Red Linked to a DNA Aptamer^{Â¶}. Photochemistry and Photobiology, 2005, 81, 682-690.	2.5	10
53	Switching of 800 nm femtosecond laser pulses using a compact PMN-PT modulator. Review of Scientific Instruments, 2009, 80, 033107.	1.3	10
54	Tracking and localization of calmodulin in live cells. Biochimica Et Biophysica Acta - Molecular Cell Research, 2016, 1863, 2017-2026.	4.1	10

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55	Step-scan near-infrared Fourier-transform Raman spectroscopy with 100 picosecond laser pulses. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1825-1831.	0.1	9
56	Evaluation of a femtosecond fiber laser for two-photon fluorescence correlation spectroscopy. Microscopy Research and Technique, 2006, 69, 891-893.	2.2	9
57	Timeâ€resolved anisotropic coherent antiâ€Stokes Raman scattering: A new probe of reorientational dynamics. Journal of Chemical Physics, 1993, 99, 7602-7613.	3.0	8
58	Classic Maximum Entropy Recovery of the Average Joint Distribution of Apparent FRET Efficiency and Fluorescence Photons for Single-Molecule Burst Measurements. Journal of Physical Chemistry B, 2012, 116, 4006-4015.	2.6	8
59	Single-Molecule Fluorescence Spectroscopy: New Probes of Protein Function and Dynamics. Physiology, 2005, 20, 10-14.	3.1	7
60	Fluorescence polarization assay for calmodulin binding to plasma membrane Ca2+â€“ATPase: Dependence on enzyme and Ca2+ concentrations. Analytical Biochemistry, 2009, 385, 1-6.	2.4	7
61	Single-Molecule FRET States, Conformational Interchange, and Conformational Selection by Dye Labels in Calmodulin. Journal of Physical Chemistry B, 2016, 120, 4357-4364.	2.6	7
62	Variable wave vector second harmonic generation in phenanthrene. Journal of Chemical Physics, 1982, 76, 3837-3838.	3.0	6
63	Dual picosecond dye lasers pumped by synchronized mode-locked and Q-switched Cw Nd:YAG lasers. Optics Communications, 1988, 69, 54-59.	2.1	6
64	Picosecond Time-Resolved Fourier Transform Raman Spectroscopy of 9,10-Diphenylanthracene in the Excited Singlet State. Applied Spectroscopy, 1995, 49, 645-649.	2.2	6
65	Chromophore Reorientation Relative to the Membrane Plane Detected by Time-Resolved Linear Dichroism during the Bacteriorhodopsin Photocycle in Oriented Purple Membrane. The Journal of Physical Chemistry, 1996, 100, 15605-15613.	2.9	6
66	Time-Resolved Fluorescence Study of Conformational Dynamics in Opioid Peptides. Journal of Physical Chemistry B, 1998, 102, 5004-5010.	2.6	6
67	Mechanism of interaction of PITPÎ± with membranes: Conformational changes in the C-terminus associated with membrane binding. Archives of Biochemistry and Biophysics, 2005, 444, 112-120.	3.0	6
68	Reconstruction of calmodulin single-molecule FRET states, dye interactions, and CaMKII peptide binding by MultiNest and classic maximum entropy. Chemical Physics, 2013, 422, 238-245.	1.9	6
69	Dynamic elements and kinetics: Most favorable conformations of peptides in solution with measurements and simulations. Journal of Chemical Physics, 2019, 151, 225102.	3.0	6
70	Interchange of autoinhibitory domain conformations in plasmaâ€membrane Ca²⁺â€ATPaseâ€“calmodulin complexes. Protein Science, 2008, 17, 555-562.	7.6	5
71	Fluorescence Probes of Protein Dynamics and Conformations in Freely Diffusing Molecules. , 2006, , 239-259.		5
72	The Intramolecular Loss of Fluorescence by Lysine Derivatized with Naphthalenedialdehyde. Applied Spectroscopy, 1990, 44, 858-863.	2.2	4

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73	A distribution-based method to resolve single-molecule FÃ¶rster resonance energy transfer observations. Journal of Chemical Physics, 2011, 134, 145101.	3.0	4
74	Fiber laser based twoâ€photon fret measurement of calmodulin and mcherryâ€Ł⁰GFP proteins. Microscopy Research and Technique, 2012, 75, 837-843.	2.2	4
75	Exploring the conformations of nitric oxide synthase with fluorescence. Frontiers in Bioscience - Landmark, 2018, 23, 2133-2145.	3.0	4
76	A Fourier-transform Raman study of the temperature dependence of chromophore conformation in light-adapted and dark-adapted bacteriorhodopsin. Spectrochimica Acta Part A: Molecular Spectroscopy, 1994, 50, 1937-1942.	0.1	3
77	Twoâ€frequency CARS imaging by switching fiber laser excitation. Microscopy Research and Technique, 2018, 81, 413-418.	2.2	3
78	Comparison of separation modes for microchip electrophoresis of proteins. Journal of Separation Science, 2021, 44, 744-751.	2.5	3
79	Reorientational Motions of the D96N and T46V/D96N Mutants of Bacteriorhodopsin in the Purple Membrane. Photochemistry and Photobiology, 1997, 66, 133-139.	2.5	2
80	Microchip electrophoresis assay for calmodulin binding proteins. Journal of Separation Science, 2021, 44, 895-902.	2.5	2
81	Energetics and Scattering of Mixed Excitonâ€“Photon States in Organic Crystals. Excited States, 1982, 6, 97-216.	0.5	2
82	Tyrosine and peptide reorientational mobility in polymer solutions: Time-dependent fluorescence anisotropy measurements. Biopolymers, 2003, 69, 351-362.	2.4	1
83	Single-Protein Dynamics and the Regulation of the Plasma-Membrane Ca2+ Pump. , 2011, , 121-151.		1