List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Jump-precursor state emerges below the crossover temperature in supercooled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>o</mml:mi> -terphenyl. Physical Review E, 2021, 103, L050601.</mml:math 	2.1	2
2	Nonlinear measurements of kinetics and generalized dynamical modes. II. Application to a simulation of solvation dynamics in an ionic liquid. Journal of Chemical Physics, 2021, 155, 024123.	3.0	2
3	Nonlinear measurements of kinetics and generalized dynamical modes. I. Extracting the one-dimensional Green's function from a time series. Journal of Chemical Physics, 2021, 155, 024122.	3.0	2
4	Micelle Heterogeneity from the 2D Kinetics of Solute Rotation. Journal of Physical Chemistry Letters, 2019, 10, 6885-6891.	4.6	4
5	Biphasic rate exchange in supercooled <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>o</mml:mi> -terphenyl from an ensemble analysis of single-molecule data. Physical Review E, 2018, 98, .</mml:math 	2.1	10
6	Nonparametric analysis of nonexponential and multidimensional kinetics. I. Quantifying rate dispersion, rate heterogeneity, and exchange dynamics. Journal of Chemical Physics, 2017, 146, 054104.	3.0	14
7	Measuring a hidden coordinate: Rate-exchange kinetics from 3D correlation functions. Journal of Chemical Physics, 2016, 145, 054119.	3.0	12
8	Rate and Amplitude Heterogeneity in the Solvation Response of an Ionic Liquid. Journal of Physical Chemistry Letters, 2016, 7, 504-508.	4.6	22
9	When is a single molecule heterogeneous? A multidimensional answer and its application to dynamics near the glass transition. Journal of Chemical Physics, 2015, 143, 024110.	3.0	18
10	Two-Dimensional Anisotropy Measurements Showing Local Heterogeneity in a Polymer Melt. Journal of Physical Chemistry Letters, 2014, 5, 2608-2612.	4.6	6
11	Multiple Population-Period Transient Spectroscopy (MUPPETS) of CdSe/ZnS Nanoparticles. II. Effects of High Fluence and Solvent Heating. Journal of Physical Chemistry B, 2013, 117, 15272-15284.	2.6	3
12	Rate Dispersion in the Biexciton Decay of CdSe/ZnS Nanoparticles from Multiple Population-Period Transient Spectroscopy. Journal of the American Chemical Society, 2013, 135, 1002-1005.	13.7	14
13	Multiple Population-Period Transient Spectroscopy (MUPPETS) of CdSe/ZnS Nanoparticles. I. Exciton and Biexciton Dynamics. Journal of Physical Chemistry B, 2013, 117, 15257-15271.	2.6	6
14	Multiple population-period transient spectroscopy (MUPPETS) in excitonic systems. Journal of Chemical Physics, 2013, 138, 034201.	3.0	11
15	Heterogeneity of the Electron-Trapping Kinetics in CdSe Nanoparticles. Nano Letters, 2011, 11, 3493-3498.	9.1	44
16	Heterogeneous Reaction Rates in an Ionic Liquid: Quantitative Results from Two-Dimensional Multiple Population-Period Transient Spectroscopy. Journal of Physical Chemistry A, 2011, 115, 7984-7993.	2.5	28
17	Thermal gratings and phase in high-order, transient-grating spectroscopy. Journal of Chemical Physics, 2011, 134, 144502.	3.0	8
18	Hilbert-space treatment of incoherent, time-resolved spectroscopy. I. Formalism, a tensorial classification of high-order orientational gratings and generalized MUPPETS "echoes― Journal of Chemical Physics, 2010, 132, 144105.	3.0	11

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19	Hilbert-space treatment of incoherent, time-resolved spectroscopy. II. Pathway description of optical multiple population-period transient spectroscopy. Journal of Chemical Physics, 2010, 132, 144106.	3.0	11
20	Dispersed Kinetics without Rate Heterogeneity in an Ionic Liquid Measured with Multiple Population-Period Transient Spectroscopy. Journal of Physical Chemistry Letters, 2010, 1, 161-164.	4.6	29
21	Separating Sub-Ensembles on Ultrafast Timescales: Multiple-Population Period Transient Spectroscopy (MUPPETS). , 2010, , .		0
22	Dynamics of Water and Ions Near DNA: Comparison of Simulation to Time-Resolved Stokes-Shift Experiments. Journal of the American Chemical Society, 2009, 131, 1724-1735.	13.7	86
23	Differential heterodyne detection with diffractive optics for multidimensional transient-grating spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2009, 26, 2357.	2.1	9
24	Nanoscale structure and dynamics of DNA. Physical Chemistry Chemical Physics, 2008, 10, 1229-1242.	2.8	47
25	Analyzing Nonexponential Kinetics with Multiple Population-Period Transient Spectroscopy (MUPPETS). Journal of Physical Chemistry A, 2008, 112, 3364-3375.	2.5	23
26	Parallels between multiple population-period transient spectroscopy and multidimensional coherence spectroscopies. Journal of Chemical Physics, 2008, 129, 064504.	3.0	27
27	Simultaneous time and frequency detection in femtosecond coherent Raman spectroscopy. I. Theory and model calculations. Journal of Chemical Physics, 2007, 127, 044306.	3.0	15
28	Simultaneous time and frequency detection in femtosecond coherent Raman spectroscopy. II. Application to acetonitrile. Journal of Chemical Physics, 2007, 127, 044307.	3.0	11
29	Electronâ^'Phonon Coupling in Phenyleneethynylene Oligomers:  A Nonlinear One-Dimensional Configuration-Coordinate Model. Journal of Physical Chemistry C, 2007, 111, 5770-5782.	3.1	32
30	Timeâ€Resolved Optical Spectroscopy with Multiple Population Dimensions: A General Method for Resolving Dynamic Heterogeneity. ChemPhysChem, 2007, 8, 1761-1765.	2.1	37
31	Coumarin base-pair replacement as a fluorescent probe of ultrafast DNA dynamics. Tetrahedron, 2007, 63, 3450-3456.	1.9	42
32	Well-Resolved Coherent Raman Spectra from Femtosecond Pulses. Springer Series in Chemical Physics, 2007, , 386-388.	0.2	1
33	Multidimensional Population "Echo―Distinguishes Between Homogeneous and Heterogeneous Dynamics. Springer Series in Chemical Physics, 2007, , 329-331.	0.2	1
34	Role of Monovalent Counterions in the Ultrafast Dynamics of DNA. Journal of Physical Chemistry B, 2006, 110, 13248-13255.	2.6	30
35	Modeling the Effects of Torsional Disorder on the Spectra of Poly- and Oligo-(p-phenyleneethynylenes)â€. Journal of Physical Chemistry B, 2006, 110, 18844-18852.	2.6	66
36	Ultrafast Dynamics in DNA:  "Fraying―at the End of the Helix. Journal of the American Chemical Society, 2006, 128, 6885-6892.	13.7	130

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37	High-Resolution Raman Spectra with Femtosecond Pulses: An Example of Combined Time- and Frequency-Domain Spectroscopy. Physical Review Letters, 2006, 97, 267401.	7.8	16
38	Power-Law Solvation Dynamics in DNA over Six Decades in Time. Journal of the American Chemical Society, 2005, 127, 7270-7271.	13.7	141
39	Effect of Protein Binding on Ultrafast DNA Dynamics: Characterization of a DNA:APE1 Complex. Biophysical Journal, 2005, 89, 4129-4138.	0.5	32
40	Effect of lesions on the dynamics of DNA on the picosecond and nanosecond timescales using a polarity sensitive probe. Nucleic Acids Research, 2004, 32, 2494-2507.	14.5	55
41	Ultrafast dynamics of normal and damaged DNA. , 2004, , 479-482.		0
42	Torsional Relaxation and Friction on the Nanometer Length Scale:  Comparison of Small-Molecule Rotation in Poly(dimethylsiloxane) and Poly(isobutylene). Macromolecules, 2003, 36, 2721-2732.	4.8	28
43	Sodium-Ion Binding to DNA:  Detection by Ultrafast Time-Resolved Stokes-Shift Spectroscopy. Journal of the American Chemical Society, 2003, 125, 11812-11813.	13.7	33
44	Ultrafast dichroism spectroscopy of anthracene in solution. IV. Merging of inertial and diffusive motions in toluene. Journal of Chemical Physics, 2003, 118, 7534.	3.0	7
45	Nanoscale versus Macroscale Friction in Polymers and Small-Molecule Liquids: Anthracene Rotation in PIB and PDMS. ACS Symposium Series, 2003, , 177-190.	0.5	0
46	Friction on Small Objects and the Breakdown of Hydrodynamics in Solution:  Rotation of Anthracene in Poly(isobutylene) from the Small-Molecule to Polymer Limits. Journal of Physical Chemistry B, 2002, 106, 7385-7397.	2.6	26
47	Complex Local Dynamics in DNA on the Picosecond and Nanosecond Time Scales. Physical Review Letters, 2002, 88, 158101.	7.8	129
48	BREAKDOWN OF HYDRODYNAMIC BEHAVIOR: SOLUTE ROTATIONAL DYNAMICS FROM THE SMALL-MOLECULE TO THE POLYMER LIMIT. , 2002, , .		0
49	Some Comparisons of LIBS Measurements Using Nanosecond and Picosecond Laser Pulses. Applied Spectroscopy, 2001, 55, 279-285.	2.2	80
50	Effects of Solvent Viscosity on Protein Dynamics:  Infrared Vibrational Echo Experiments and Theory. Journal of Physical Chemistry B, 2001, 105, 1081-1092.	2.6	79
51	Excited-State Dynamics of Oligo(p-phenyleneethynylene):Â Quadratic Coupling and Torsional Motions. Journal of the American Chemical Society, 2001, 123, 6447-6448.	13.7	167
52	LIBS using dual- and ultra-short laser pulses. Fresenius' Journal of Analytical Chemistry, 2001, 369, 320-327.	1.5	125
53	Ultrafast dichroism spectroscopy of anthracene in solution. I. Inertial versus diffusive rotation in benzyl alcohol. Journal of Chemical Physics, 2001, 115, 4212-4222.	3.0	23
54	Ultrafast dichroism spectroscopy of anthracene in solution. III. Nonpolar solvation dynamics in benzyl alcohol. Journal of Chemical Physics, 2001, 115, 4231-4238.	3.0	13

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55	Ultrafast dichroism spectroscopy of anthracene in solution. II. Solvation dynamics from a one-dimensional experiment. Journal of Chemical Physics, 2001, 115, 4223-4230.	3.0	13
56	Raman free-induction-decay measurements in low viscosity and supercooled toluene: Vibrational dephasing by shear fluctuations. Journal of Chemical Physics, 2001, 114, 3662-3673.	3.0	12
57	Separating Inertial and Diffusive Rotation and Solvation for a Nonpolar Solute. Springer Series in Chemical Physics, 2001, , 557-559.	0.2	0
58	Ultrafast Dynamics in DNA. Springer Series in Chemical Physics, 2001, , 563-565.	0.2	0
59	Two-pulse echo experiments in the spectral diffusion regime. Journal of Chemical Physics, 2000, 113, 3233-3242.	3.0	32
60	Ultrafast dynamics in DNA. , 2000, , .		0
61	A viscoelastic continuum model of nonpolar solvation. III. Electron solvation and nonlinear coupling effects. Journal of Chemical Physics, 1999, 110, 8577-8588.	3.0	32
62	Measurement of Local DNA Reorganization on the Picosecond and Nanosecond Time Scales. Journal of the American Chemical Society, 1999, 121, 11644-11649.	13.7	158
63	A viscoelastic continuum model of non-polar solvation Chemical Physics, 1998, 233, 257-266.	1.9	27
64	Local Dynamics in DNA by Temperature-Dependent Stokes Shifts of an Intercalated Dye. Journal of the American Chemical Society, 1998, 120, 2449-2456.	13.7	86
65	<title>Mechanical mechanism for the ultrafast perturbation of electronic states in solution</title> . , 1994, , .		0
66	Ultrafast Raman echo experiments in the liquid phase. , 1992, , .		0
67	Structural relaxation in liquids and glasses by transient hole burning. , 1992, 1638, 12.		0
68	Reactions of vinylcyclopropane induced by multiphoton absorption of infrared radiation. Journal of the American Chemical Society, 1979, 101, 6468-6470.	13.7	14