Michael D Fayer

List of Publications by Year
in descending order

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141 papers	6,897 citations	50170 46 h-index	69108 77 g-index
144 all docs	144 docs citations	144 times ranked	4905 citing authors

#	Article	IF	Citations
1	Microstructural and Dynamical Heterogeneities in Ionic Liquids. Chemical Reviews, 2020, 120, 5798-5877.	23.0	277
2	Shocked molecular solids: Vibrational up pumping, defect hot spot formation, and the onset of chemistry. Journal of Chemical Physics, 1990, 92, 3798-3812.	1.2	269
3	Dynamics of Water Interacting with Interfaces, Molecules, and Ions.. Accounts of Chemical Research, 2012, 45, 3-14.	7.6	242
4	Analysis of Water in Confined Geometries and at Interfaces. Annual Review of Analytical Chemistry, 2010, 3, 89-107.	2.8	240
5	Orientational dynamics of water confined on a nanometer length scale in reverse micelles. Journal of Chemical Physics, 2005, 122, 174501.	1.2	219
6	Dynamics of Liquids, Molecules, and Proteins Measured with Ultrafast 2D IR Vibrational Echo Chemical Exchange Spectroscopy. Annual Review of Physical Chemistry, 2009, 60, 21-38.	4.8	188
7	Water inertial reorientation: Hydrogen bond strength and the angular potential. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 5295-5300.	3.3	181
8	Water dynamics in large and small reverse micelles: From two ensembles to collective behavior. Journal of Chemical Physics, 2009, 131, 014704.	1.2	170
9	Water Dynamics in Water/DMSO Binary Mixtures. Journal of Physical Chemistry B, 2012, 116, 5479-5490.	1.2	155
10	FASTPROTEINDYNAMICSPROBED WITHINFRAREDVIBRATIONALECHOEXPERIMENTS. Annual Review of Physical Chemistry, 2001, 52, 315-356.	4.8	139
11	Water at the Surfaces of Aligned Phospholipid Multibilayer Model Membranes Probed with Ultrafast Vibrational Spectroscopy. Journal of the American Chemical Society, 2008, 130, 13927-13937.	6.6	135
12	Water dynamics: dependence on local structure probed with vibrational echo correlation spectroscopy. Chemical Physics Letters, 2004, 386, 295-300.	1.2	131
13	Direct observation of fast protein conformational switching. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8619-8624.	3.3	125
14	Water Dynamics in Salt Solutions Studied with Ultrafast Two-Dimensional Infrared (2D IR) Vibrational Echo Spectroscopy. Accounts of Chemical Research, 2009, 42, 1210-1219.	7.6	123
15	Water Dynamics in Nafion Fuel Cell Membranes:â€‰ The Effects of Confinement and Structural Changes on the Hydrogen Bond Networkâ€. Journal of Physical Chemistry C, 2007, 111, 8884-8891.	1.5	121
16	Structural Dynamics of a Catalytic Monolayer Probed by Ultrafast 2D IR Vibrational Echoes. Science, 2011, 334, 634-639.	6.0	117
17	Dynamics of the folded and unfolded villin headpiece (HP35) measured with ultrafast 2D IR vibrational echo spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 3578-3583.	3.3	105
18	Ribonuclease S Dynamics Measured Using a Nitrile Label with 2D IR Vibrational Echo Spectroscopy. Journal of Physical Chemistry B, 2012, 116, 4034-4042.	1.2	100

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19	Orientational Dynamics of Room Temperature Ionic Liquid/Water Mixtures: Water-Induced Structure. Journal of Physical Chemistry B, 2012, 116, 1777-1787.	1.2	97
20	The Influence of Aqueous versus Glassy Solvents on Protein Dynamics:Â Vibrational Echo Experiments and Molecular Dynamics Simulations. Journal of the American Chemical Society, 2005, 127, 14279-14289.	6.6	96
21	Probing dynamics of complex molecular systems with ultrafast 2D IR vibrational echo spectroscopy. Physical Chemistry Chemical Physics, 2007, 9, 1533.	1.3	93
22	Two-Dimensional IR Spectroscopy of Protein Dynamics Using Two Vibrational Labels: A Site-Specific Genetically Encoded Unnatural Amino Acid and an Active Site Ligand. Journal of Physical Chemistry B, 2011, 115, 11294-11304.	1.2	92
23	Dynamics in Supercooled Ionic Organic Liquids and Mode Coupling Theory Analysis. Journal of Physical Chemistry A, 2006, 110, 10384-10391.	1.1	83
24	Hydrogen Bond Lifetimes and Energetics for Solute/Solvent Complexes Studied with 2D-IR Vibrational Echo Spectroscopy. Journal of the American Chemical Society, 2007, 129, 4328-4335.	6.6	82
25	Structural dynamics inside a functionalized metalâ€“organic framework probed by ultrafast 2D IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 18442-18447.	3.3	76
26	Ultrafast heterodyne detected infrared multidimensional vibrational stimulated echo studies of hydrogen bond dynamics. Chemical Physics Letters, 2003, 374, 362-371.	1.2	75
27	Dynamics of water, methanol, and ethanol in a room temperature ionic liquid. Journal of Chemical Physics, 2015, 142, 212408.	1.2	75
28	Neuroglobin dynamics observed with ultrafast 2D-IR vibrational echo spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 16116-16121.	3.3	71
29	Dynamics and structure of room temperature ionic liquids. Chemical Physics Letters, 2014, 616-617, 259-274.	1.2	70
30	Water Dynamics and Interactions in Waterâ^'Polyether Binary Mixtures. Journal of the American Chemical Society, 2009, 131, 5530-5539.	6.6	68
31	Protein Dynamics Studied with Ultrafast Two-Dimensional Infrared Vibrational Echo Spectroscopy. Accounts of Chemical Research, 2012, 45, 1866-1874.	7.6	66
32	Dynamics of Proteins Encapsulated in Silica Solâ^'Gel Glasses Studied with IR Vibrational Echo Spectroscopy. Journal of the American Chemical Society, 2006, 128, 3990-3997.	6.6	65
33	Water Dynamics in Divalent and Monovalent Concentrated Salt Solutions. Journal of Physical Chemistry B, 2012, 116, 13781-13792.	1.2	65
34	Disulfide bond influence on protein structural dynamics probed with 2D-IR vibrational echo spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 19309-19314.	3.3	61
35	Protein Dynamics in Cytochrome P450 Molecular Recognition and Substrate Specificity Using 2D IR Vibrational Echo Spectroscopy. Journal of the American Chemical Society, 2011, 133, 3995-4004.	6.6	60
36	Dynamics of Isolated Water Molecules in a Sea of Ions in a Room Temperature Ionic Liquid. Journal of Physical Chemistry B, 2013, 117, 623-635.	1.2	58

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37	Dynamics of a Room Temperature Ionic Liquid in Supported Ionic Liquid Membranes vs the Bulk Liquid: 2D IR and Polarized IR Pumpâ€“Probe Experiments. Journal of the American Chemical Society, 2017, 139, 311-323.	6.6	55
38	Water Dynamics in Polyacrylamide Hydrogels. Journal of the American Chemical Society, 2018, 140, 9466-9477.	6.6	53
39	Myoglobin-CO Conformational Substate Dynamics: 2D Vibrational Echoes and MD Simulations. Biophysical Journal, 2002, 82, 3277-3288.	0.2	52
40	Proton Transfer in Ionic and Neutral Reverse Micelles. Journal of Physical Chemistry B, 2015, 119, 6024-6034.	1.2	52
41	Quantitative measurement of chain contraction in a solid blend of two incompatible polymers: poly(methyl methacrylate)/poly(vinyl acetate). Macromolecules, 1990, 23, 111-120.	2.2	50
42	Short time dynamics in the isotropic phase of liquid crystals: the aspect ratio and the power law decay. Chemical Physics Letters, 2002, 366, 82-87.	1.2	50
43	Carbon dioxide in an ionic liquid: Structural and rotational dynamics. Journal of Chemical Physics, 2016, 144, 104506.	1.2	49
44	Dynamically Disordered Lattice in a Layered Pb-I-SCN Perovskite Thin Film Probed by Two-Dimensional Infrared Spectroscopy. Journal of the American Chemical Society, 2018, 140, 9882-9890.	6.6	49
45	Unraveling the dynamics and structure of functionalized self-assembled monolayers on gold using 2D IR spectroscopy and MD simulations. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 4929-4934.	3.3	48
46	Carbon Dioxide in a Supported Ionic Liquid Membrane: Structural and Rotational Dynamics Measured with 2D IR and Pumpâ€“Probe Experiments. Journal of the American Chemical Society, 2017, 139, 11222-11232.	6.6	48
47	Hydrogen Bonding versus Ï€â€“Ï€ Stacking Interactions in Imidazoliumâ€“Oxalatoborate Ionic Liquid. Journal of Physical Chemistry B, 2017, 121, 7173-7179.	1.2	47
48	Tracking Aqueous Proton Transfer by Two-Dimensional Infrared Spectroscopy and ab Initio Molecular Dynamics Simulations. ACS Central Science, 2019, 5, 1269-1277.	5.3	47
49	Observation and theory of reorientation-induced spectral diffusion in polarization-selective 2D IR spectroscopy. Journal of Chemical Physics, 2015, 142, 184505.	1.2	46
50	Impact of Hydrogen Bonding on the Dynamics and Structure of Protic Ionic Liquid/Water Binary Mixtures. Journal of Physical Chemistry B, 2017, 121, 8564-8576.	1.2	46
51	Conformational Dynamics and Stability of HP35 Studied with 2D IR Vibrational Echoes. Journal of the American Chemical Society, 2012, 134, 12118-12124.	6.6	45
52	Soluteâ^'Solvent Complex Switching Dynamics of Chloroform between Acetone and Dimethylsulfoxideâ^'Two-Dimensional IR Chemical Exchange Spectroscopy. Journal of Physical Chemistry B, 2008, 112, 13906-13915.	1.2	44
53	The Influence of Lithium Cations on Dynamics and Structure of Room Temperature Ionic Liquids. Journal of Physical Chemistry B, 2013, 117, 9768-9774.	1.2	44
54	Single Ensemble Non-exponential Photoluminescent Population Decays from a Broadband White-Light-Emitting Perovskite. Journal of the American Chemical Society, 2020, 142, 16622-16631.	6.6	44

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55	Separation of experimental 2D IR frequency-frequency correlation functions into structural and reorientation-induced contributions. Journal of Chemical Physics, 2015, 143, 124505.	1.2	42
56	Ultrafast Structural Dynamics Inside Planar Phospholipid Multibilayer Model Cell Membranes Measured with 2D IR Spectroscopy. Journal of the American Chemical Society, 2013, 135, 11063-11074.	6.6	41
57	Dynamics in a Room-Temperature Ionic Liquid from the Cation Perspective: 2D IR Vibrational Echo Spectroscopy. Journal of the American Chemical Society, 2017, 139, 2408-2420.	6.6	41
58	Ultrafast to Ultraslow Dynamics of a Langmuir Monolayer at the Air/Water Interface Observed with Reflection Enhanced 2D IR Spectroscopy. Journal of the American Chemical Society, 2017, 139, 16518-16527.	6.6	40
59	Ionic Liquid Dynamics Measured with 2D IR and IR Pumpâ€“Probe Experiments on a Linear Anion and the Influence of Potassium Cations. Journal of Physical Chemistry B, 2016, 120, 5842-5854.	1.2	39
60	Water of Hydration Dynamics in Minerals Gypsum and Bassanite: Ultrafast 2D IR Spectroscopy of Rocks. Journal of the American Chemical Society, 2016, 138, 9694-9703.	6.6	39
61	Water-anion hydrogen bonding dynamics: Ultrafast IR experiments and simulations. Journal of Chemical Physics, 2017, 146, 234501.	1.2	38
62	Orientational and Translational Dynamics of Polyether/Water Solutions. Journal of Physical Chemistry B, 2010, 114, 5350-5358.	1.2	37
63	Using ultrafast infrared multidimensional correlation spectroscopy to aid in vibrational spectral peak assignments. Chemical Physics Letters, 2003, 381, 139-146.	1.2	36
64	Molecular Anion Hydrogen Bonding Dynamics in Aqueous Solution. Journal of Physical Chemistry B, 2015, 119, 13407-13415.	1.2	36
65	Alkyl Chain Length Dependence of the Dynamics and Structure in the Ionic Regions of Room-Temperature Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 7488-7501.	1.2	36
66	Dynamics in the Isotropic Phase of Nematogens Using 2D IR Vibrational Echo Measurements on Natural-Abundance ¹³CN and Extended Lifetime Probes. Journal of Physical Chemistry B, 2013, 117, 15060-15071.	1.2	35
67	Ionâ€“Molecule Complex Dissociation and Formation Dynamics in LiCl Aqueous Solutions from 2D IR Spectroscopy. Journal of Physical Chemistry B, 2018, 122, 10582-10592.	1.2	35
68	Orientational Dynamics in a Lyotropic Room Temperature Ionic Liquid. Journal of Physical Chemistry B, 2013, 117, 14775-14784.	1.2	34
69	Extraordinary Slowing of Structural Dynamics in Thin Films of a Room Temperature Ionic Liquid. ACS Central Science, 2018, 4, 1065-1073.	5.3	33
70	Dynamics of Water Molecules and Ions in Concentrated Lithium Chloride Solutions Probed with Ultrafast 2D IR Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 7628-7639.	1.2	33
71	Water Dynamics in Nanoporous Silica: Ultrafast Vibrational Spectroscopy and Molecular Dynamics Simulations. Journal of Physical Chemistry C, 2019, 123, 5790-5803.	1.5	32
72	Dynamics of Functionalized Surface Molecular Monolayers Studied with Ultrafast Infrared Vibrational Spectroscopy. Journal of Physical Chemistry C, 2012, 116, 23428-23440.	1.5	30

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73	Coupling of Carbon Dioxide Stretch and Bend Vibrations Reveals Thermal Population Dynamics in an Ionic Liquid. Journal of Physical Chemistry B, 2016, 120, 549-556.	1.2	29
74	Size-dependent ultrafast structural dynamics inside phospholipid vesicle bilayers measured with 2D IR vibrational echoes. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 918-923.	3.3	28
75	Enhanced nonlinear spectroscopy for monolayers and thin films in near-Brewsterâ€™s angle reflection pump-probe geometry. Journal of Chemical Physics, 2017, 146, .	1.2	28
76	Water in a Crowd. Physiology, 2011, 26, 381-392.	1.6	27
77	Water Dynamics in 1-Alkyl-3-methylimidazolium Tetrafluoroborate Ionic Liquids. Journal of Physical Chemistry B, 2016, 120, 11523-11538.	1.2	27
78	Structural and Rotational Dynamics of Carbon Dioxide in 1-Alkyl-3-methylimidazolium Bis(trifluoromethylsulfonyl)imide Ionic Liquids: The Effect of Chain Length. Journal of Physical Chemistry B, 2016, 120, 6698-6711.	1.2	27
79	Probing intermolecular interactions with picosecond photon echo experiments. Accounts of Chemical Research, 1987, 20, 120-126.	7.6	26
80	Dynamics in the Interior of AOT Lamellae Investigated with Two-Dimensional Infrared Spectroscopy. Journal of the American Chemical Society, 2013, 135, 5118-5126.	6.6	26
81	Enhanced Menshutkin S_N2 Reactivity in Mesoporous Silica: The Influence of Surface Catalysis and Confinement. Journal of the American Chemical Society, 2020, 142, 5636-5648.	6.6	25
82	Controlling the Dynamics of Ionic Liquid Thin Films via Multilayer Surface Functionalization. Journal of the American Chemical Society, 2020, 142, 9482-9492.	6.6	25
83	Ionic Liquid versus Li⁺ Aqueous Solutions: Water Dynamics near Bistriflimide Anions. Journal of Physical Chemistry B, 2016, 120, 9997-10009.	1.2	24
84	Dynamics in a Water Interfacial Boundary Layer Investigated with IR Polarization-Selective Pumpâ€“Probe Experiments. Journal of Physical Chemistry B, 2017, 121, 4530-4537.	1.2	24
85	Structural Dynamics at Monolayerâ€“Liquid Interfaces Probed by 2D IR Spectroscopy. Journal of Physical Chemistry C, 2013, 117, 1409-1420.	1.5	23
86	Effects of pore size on water dynamics in mesoporous silica. Journal of Chemical Physics, 2020, 152, 154704.	1.2	23
87	Water Dynamics and Structure of Highly Concentrated LiCl Solutions Investigated Using Ultrafast Infrared Spectroscopy. Journal of the American Chemical Society, 2022, 144, 4233-4243.	6.6	23
88	Fast Dynamics of HP35 for Folded and Urea-Unfolded Conditions. Journal of Physical Chemistry B, 2012, 116, 11024-11031.	1.2	22
89	Bulk-like and Interfacial Water Dynamics in Nafion Fuel Cell Membranes Investigated with Ultrafast Nonlinear IR Spectroscopy. Journal of Physical Chemistry B, 2019, 123, 9408-9417.	1.2	22
90	Vibrational echo experiments on red blood cells: Comparison of the dynamics of cytoplasmic and aqueous hemoglobin. Chemical Physics Letters, 2004, 392, 324-329.	1.2	21

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91	Guest Hydrogen Bond Dynamics and Interactions in the Metalâ€“Organic Framework MIL-53(Al) Measured with Ultrafast Infrared Spectroscopy. Journal of Physical Chemistry C, 2017, 121, 11880-11890.	1.5	21
92	The influence of hydrophilicity on the orientational dynamics and structures of imidazolium-based ionic liquid/water binary mixtures. Journal of Chemical Physics, 2018, 149, 044501.	1.2	21
93	Structural Dynamics in Ionic Liquid Thin Films: The Effect of Cation Chain Length. Journal of Physical Chemistry C, 2020, 124, 4179-4189.	1.5	20
94	Free Volume Element Sizes and Dynamics in Polystyrene and Poly(methyl methacrylate) Measured with Ultrafast Infrared Spectroscopy. Journal of the American Chemical Society, 2021, 143, 3583-3594.	6.6	20
95	New divergent dynamics in the isotropic to nematic phase transition of liquid crystals measured with 2D IR vibrational echo spectroscopy. Journal of Chemical Physics, 2014, 141, 194502.	1.2	19
96	Structural Influences on the Fast Dynamics of Alkylsiloxane Monolayers on SiO₂ Surfaces Measured with 2D IR Spectroscopy. Journal of Physical Chemistry C, 2015, 119, 16811-16823.	1.5	19
97	Cytochrome c552Mutants:Â Structure and Dynamics at the Active Site Probed by Multidimensional NMR and Vibration Echo Spectroscopyâ€. Journal of Physical Chemistry B, 2006, 110, 18803-18810.	1.2	18
98	Dynamics of Molecular Monolayers with Different Chain Lengths in Air and Solvents Probed by Ultrafast 2D IR Spectroscopy. Journal of Physical Chemistry C, 2014, 118, 523-532.	1.5	18
99	CLS Next Gen: Accurate Frequencyâ€“Frequency Correlation Functions from Center Line Slope Analysis of 2D Correlation Spectra Using Artificial Neural Networks. Journal of Physical Chemistry A, 2020, 124, 5979-5992.	1.1	18
100	Amorphous polymer dynamics and free volume element size distributions from ultrafast IR spectroscopy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 13949-13958.	3.3	18
101	Dynamics of Dihydrogen Bonding in Aqueous Solutions of Sodium Borohydride. Journal of Physical Chemistry B, 2015, 119, 3546-3559.	1.2	16
102	Dynamical properties of a room temperature ionic liquid: Using molecular dynamics simulations to implement a dynamic ion cage model. Journal of Chemical Physics, 2019, 151, 154502.	1.2	16
103	The Influence of Cholesterol on Fast Dynamics Inside of Vesicle and Planar Phospholipid Bilayers Measured with 2D IR Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 8852-8862.	1.2	15
104	Direct observation of dynamic crossover in fragile molecular glass formers with 2D IR vibrational echo spectroscopy. Journal of Chemical Physics, 2017, 146, 124505.	1.2	15
105	The influence of mesoscopic confinement on the dynamics of imidazolium-based room temperature ionic liquids in polyether sulfone membranes. Journal of Chemical Physics, 2017, 147, 194502.	1.2	15
106	Theory of third-order spectroscopic methods to extract detailed molecular orientational dynamics for planar surfaces and other uniaxial systems. Journal of Chemical Physics, 2014, 140, 144702.	1.2	13
107	The Influence of Water on the Alkyl Region Structure in Variable Chain Length Imidazolium-Based Ionic Liquid/Water Mixtures. Journal of Physical Chemistry B, 2016, 120, 10350-10357.	1.2	13
108	Imidazole and 1-Methylimidazole Hydrogen Bonding and Nonhydrogen Bonding Liquid Dynamics: Ultrafast IR Experiments. Journal of Physical Chemistry B, 2019, 123, 2094-2105.	1.2	13

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109	Identical Water Dynamics in Acrylamide Hydrogels, Polymers, and Monomers in Solution: Ultrafast IR Spectroscopy and Molecular Dynamics Simulations. Journal of the American Chemical Society, 2021, 143, 14855-14868.	6.6	13
110	Effect of chromophore diffusion on electronic excitation transfer in micellar systems. Chemical Physics Letters, 1997, 276, 274-281.	1.2	12
111	Excitation transfer induced spectral diffusion and the influence of structural spectral diffusion. Journal of Chemical Physics, 2012, 137, 064109.	1.2	12
112	Length Scales and Structural Dynamics in Nematogen Pseudonematic Domains Measured with 2D IR Vibrational Echoes and Optical Kerr Effect Experiments. Journal of Physical Chemistry B, 2014, 118, 7856-7868.	1.2	12
113	Preface: Special Topic on Chemical Physics of Ionic Liquids. Journal of Chemical Physics, 2018, 148, 193501.	1.2	12
114	Fluorescence depolarization of chromophores in polymeric solids. Macromolecules, 1989, 22, 874-879.	2.2	11
115	Quasi-rotating frame: accurate line shape determination with increased efficiency in noncollinear 2D optical spectroscopy. Journal of the Optical Society of America B: Optical Physics, 2016, 33, 1143.	0.9	11
116	Proton Transfer from a Photoacid to a Water Wire: First Principles Simulations and Fast Fluorescence Spectroscopy. Journal of Physical Chemistry B, 2021, 125, 12539-12551.	1.2	11
117	Critical Slowing of Density Fluctuations Approaching the Isotropicâ€“Nematic Transition in Liquid Crystals: 2D IR Measurements and Mode Coupling Theory. Journal of Physical Chemistry B, 2016, 120, 7003-7015.	1.2	10
118	Short polymer chain statistics and the relationship to end to end electronic excitation transport: random walks with variable-step lengths. Macromolecules, 1988, 21, 1145-1154.	2.2	9
119	Hole burning line shapes in a two-dimensional glass: A model for hole burning line shapes of molecules on surfaces. Chemical Physics Letters, 1990, 168, 371-378.	1.2	9
120	Time-Dependent Fifth-Order Bands in Nominally Third-Order 2D IR Vibrational Echo Spectra. Journal of Physical Chemistry A, 2011, 115, 9714-9723.	1.1	9
121	Proton Transfer in Perfluorosulfonic Acid Fuel Cell Membranes with Differing Pendant Chains and Equivalent Weights. Journal of Physical Chemistry B, 2017, 121, 4544-4553.	1.2	9
122	Influence of Water on Carbon Dioxide and Room Temperature Ionic Liquid Dynamics: Supported Ionic Liquid Membrane vs the Bulk Liquid. Journal of Physical Chemistry B, 2018, 122, 2389-2395.	1.2	8
123	Dynamics and Microstructures of Nicotine/Water Binary Mixtures near the Lower Critical Solution Temperature. Journal of Physical Chemistry B, 2018, 122, 9538-9548.	1.2	7
124	Complex Formation and Dissociation Dynamics on Amorphous Silica Surfaces. Journal of Physical Chemistry B, 2021, 125, 4566-4581.	1.2	7
125	Long Vibrational Lifetime R-Selenocyanate Probes for Ultrafast Infrared Spectroscopy: Properties and Synthesis. Journal of Physical Chemistry B, 2021, 125, 8907-8918.	1.2	7
126	Orientational Pair Correlations in a Dipolar Molecular Liquid: Time-Resolved Resonant and Nonresonant Pumpâ€“Probe Spectroscopies. Journal of Physical Chemistry B, 2018, 122, 12147-12153.	1.2	6

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127	Fast dynamics of a hydrogen-bonding glass forming liquid: Chemical exchange-induced spectral diffusion in 2D IR spectroscopy. Journal of Chemical Physics, 2019, 150, 124507.	1.2	6
128	Proton Transfer Dynamics in the Aprotic Proton Accepting Solvent 1-Methylimidazole. Journal of Physical Chemistry B, 2020, 124, 7897-7908.	1.2	6
129	Pulse-shaped chopping: Eliminating and characterizing heat effects in ultrafast infrared spectroscopy. Journal of Chemical Physics, 2020, 153, 204201.	1.2	6
130	Orientational Dynamics of a Functionalized Alkyl Planar Monolayer Probed by Polarization-Selective Angle-Resolved Infrared Pumpâ€“Probe Spectroscopy. Journal of the American Chemical Society, 2016, 138, 14057-14065.	6.6	5
131	Vibrational Echo and Pump-Probe Spectroscopic Studies of the Dynamics of Water Molecules Confined to Nanoscopic Dimensions. , 2006, , 195-203.		5
132	Ultrafast Dynamics and Liquid Structure in Mesoporous Silica: Propagation of Surface Effects in a Polar Aprotic Solvent. Journal of Physical Chemistry B, 2021, 125, 10018-10034.	1.2	4
133	Probing Lattice Dynamics in Two-Dimensional Inorganic Pseudohalide Perovskites with Ultrafast Infrared Spectroscopy. Journal of Physical Chemistry C, 2022, 126, 10145-10158.	1.5	4
134	Discontinuity in Fast Dynamics at the Glass Transition of ortho-Terphenyl. Journal of Physical Chemistry B, 2017, 121, 10417-10428.	1.2	3
135	Orientational Pair Correlations and Local Structure of Benzonitrile from Molecular Dynamics Simulations with Comparisons to Experiments. Journal of Physical Chemistry B, 2021, 125, 3163-3177.	1.2	3
136	Theory of Electronic Excitation Transfer in Polymer Micelles and Lamellae. Molecular Crystals and Liquid Crystals, 1996, 283, 173-177.	0.3	2
137	Theoretical examination of picosecond phenol migration dynamics in phenylacetylene solution. Chemical Physics, 2013, 422, 175-183.	0.9	2
138	Reorientation-induced Stokes shifts caused by directional interactions in electronic spectroscopy: Fast dynamics of poly(methyl methacrylate). Journal of Chemical Physics, 2019, 150, 194201.	1.2	2
139	1P-102 Fast protein conformational switching observed with 2D-IR vibrational echo(Invited Talk for) Tj ETQq1 1 0.784314 rgBT /Overl	0.0	0
140	Distinguishing steric and electrostatic molecular probe orientational ordering via their effects on reorientation-induced spectral diffusion. Journal of Chemical Physics, 2021, 154, 244104.	1.2	0
141	Two dimensional infrared spectroscopic investigations of protein and enzyme dynamics. FASEB Journal, 2018, 32, .	0.2	0