# Biman Bagchi

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14,628 398 104 59 h-index g-index citations papers 6.96 408 15,373 4.5 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
398	Dielectric relaxation and solvation dynamics of water in complex chemical and biological systems. <i>Chemical Reviews</i> , <b>2000</b> , 100, 2013-46	68.1	787
397	Water dynamics in the hydration layer around proteins and micelles. <i>Chemical Reviews</i> , <b>2005</b> , 105, 3197	<b>-2689</b> 1	677
396	Biological Water: Femtosecond Dynamics of Macromolecular Hydration. <i>Journal of Physical Chemistry B</i> , <b>2002</b> , 106, 12376-12395	3.4	434
395	Collapse of stiff conjugated polymers with chemical defects into ordered, cylindrical conformations. <i>Nature</i> , <b>2000</b> , 405, 1030-3	50.4	400
394	Dielectric Relaxation of Biological Water Journal of Physical Chemistry B, <b>1997</b> , 101, 10954-10961	3.4	392
393	Slow Dynamics of Constrained Water in Complex Geometries. <i>Journal of Physical Chemistry A</i> , <b>2000</b> , 104, 10603-10613	2.8	337
392	Theory of the time development of the stokes shift in polar media. <i>Chemical Physics</i> , <b>1984</b> , 86, 257-267	2.3	331
391	Hydrogen-bond dynamics near a micellar surface: origin of the universal slow relaxation at complex aqueous interfaces. <i>Physical Review Letters</i> , <b>2002</b> , 89, 115505	7.4	320
390	Theory of electronic relaxation in solution in the absence of an activation barrier. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 7375-7385	3.9	309
389	Nonspecifically bound proteins spin while diffusing along DNA. <i>Nature Structural and Molecular Biology</i> , <b>2009</b> , 16, 1224-9	17.6	252
388	Dynamics of activationless reactions in solution. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 9-20		207
387	Distance and Orientation Dependence of Excitation Transfer Rates in Conjugated Systems: Beyond the FEster Theory. <i>Journal of Physical Chemistry A</i> , <b>2004</b> , 108, 5752-5763	2.8	206
386	The effect of frequency dependent friction on isomerization dynamics in solution. <i>Journal of Chemical Physics</i> , <b>1983</b> , 78, 2735-2741	3.9	188
385	Solvation dynamics in dipolar liquids. <i>Chemical Society Reviews</i> , <b>2010</b> , 39, 1936-54	58.5	175
384	Collective Orientational Relaxation in Dense Dipolar Liquids. Advances in Chemical Physics, 2007, 1-126		157
383	Water in Biological and Chemical Processes: From Structure and Dynamics to Function 2013,		154
382	On the molecular mechanism of drug intercalation into DNA: a simulation study of the intercalation pathway, free energy, and DNA structural changes. <i>Journal of the American Chemical Society</i> , <b>2008</b> , 130, 9747-55	16.4	151

381	Ultrafast solvation dynamics in water: Isotope effects and comparison with experimental results. Journal of Chemical Physics, <b>1995</b> , 102, 1390-1397	3.9	138
380	Anomalous diffusion of small particles in dense liquids. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 1757-176	5 <b>3</b> .9	132
379	Structure and dynamics of DNA-dendrimer complexation: role of counterions, water, and base pair sequence. <i>Nano Letters</i> , <b>2006</b> , 6, 2478-85	11.5	129
378	Secondary structure sensitivity of hydrogen bond lifetime dynamics in the protein hydration layer. Journal of the American Chemical Society, <b>2005</b> , 127, 16660-7	16.4	125
377	Distance and orientation dependence of excitation energy transfer: from molecular systems to metal nanoparticles. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 1817-32	3.4	118
376	Anomalous Dielectric Relaxation of Aqueous Protein Solutions. <i>Journal of Physical Chemistry A</i> , <b>1998</b> , 102, 8217-8221	2.8	114
375	Ultrafast Solvation Dynamics of an Ion in the Ecyclodextrin Cavity: The Role of Restricted Environment. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 13914-13919		112
374	Solvation dynamics in liquid water. A novel interplay between librational and diffusive modes. Journal of Chemical Physics, <b>1993</b> , 99, 9938-9943	3.9	111
373	The dynamics of polar solvation: Inhomogeneous dielectric continuum models. <i>Journal of Chemical Physics</i> , <b>1988</b> , 89, 3519-3534	3.9	110
372	Identity, Energy, and Environment of Interfacial Water Molecules in a Micellar Solution. <i>Journal of Physical Chemistry B</i> , <b>2003</b> , 107, 5194-5202	3.4	94
371	Facilitation, complexity growth, mode coupling, and activated dynamics in supercooled liquids. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2008</b> , 105, 16077-82	11.5	87
370	Theoretical and computational analysis of static and dynamic anomalies in water-DMSO binary mixture at low DMSO concentrations. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 685-92	3.4	84
369	Sensitivity of polar solvation dynamics to the secondary structures of aqueous proteins and the role of surface exposure of the probe. <i>Journal of the American Chemical Society</i> , <b>2005</b> , 127, 4071-5	16.4	84
368	Hydration layer of a cationic micelle, C(10)TAB: structure, rigidity, slow reorientation, hydrogen bond lifetime, and solvation dynamics. <i>Journal of Physical Chemistry B</i> , <b>2005</b> , 109, 12879-90	3.4	83
367	Enhanced pair hydrophobicity in the water-dimethylsulfoxide (DMSO) binary mixture at low DMSO concentrations. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 12875-82	3.4	82
366	Multiple time scales in solvation dynamics of DNA in aqueous solution: the role of water, counterions, and cross-correlations. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 26396-402	3.4	82
365	Resonance energy transfer from a fluorescent dye to a metal nanoparticle. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 181102	3.9	82
364	Anomalous ion diffusion in dense dipolar liquids. <i>Physical Review Letters</i> , <b>1995</b> , 75, 1098-1101	7.4	81

363	Ionic Mobility and Ultrafast Solvation: Control of a Slow Phenomenon by Fast Dynamics. <i>Accounts of Chemical Research</i> , <b>1998</b> , 31, 181-187	24.3	77
362	Molecular theory of nonpolar solvation dynamics. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 6658-6664	3.9	77
361	Frequency dependence of ionic conductivity of electrolyte solutions. <i>Journal of Chemical Physics</i> , <b>2000</b> , 112, 1876-1886	3.9	75
360	Microscopic expression for frequency and wave vector dependent dielectric constant of a dipolar liquid. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 1832-1840	3.9	75
359	Slow Solvation Dynamics near an Aqueous Micellar Surface. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 12529-12533	3.4	74
358	Diffusion constant of a nonspecifically bound protein undergoing curvilinear motion along DNA. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 6282-4	3.4	73
357	Polar and Nonpolar Solvation Dynamics, Ion Diffusion, and Vibrational Relaxation: Role of Biphasic Solvent Response in Chemical Dynamics. <i>Advances in Chemical Physics</i> , <b>2007</b> , 207-433		73
356	Dynamics of bound and free water in an aqueous micellar solution: analysis of the lifetime and vibrational frequencies of hydrogen bonds at a complex interface. <i>Physical Review E</i> , <b>2003</b> , 67, 061502	2.4	73
355	A molecular theory of collective orientational relaxation in pure and binary dipolar liquids. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 1829-1842	3.9	73
354	Microscopic expression for dielectric friction on a moving ion. <i>Journal of Chemical Physics</i> , <b>1991</b> , 95, 467	'- <u>4</u> .7 <sub>3</sub> 8	72
353	Entropy of water in the hydration layer of major and minor grooves of DNA. <i>Journal of Physical Chemistry B</i> , <b>2006</b> , 110, 19611-8	3.4	71
352	Structural and Electronic Characterization of Chemical and Conformational Defects in Conjugated Polymers. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 6103-6107	3.4	70
351	Comparison of the ultrafast to slow time scale dynamics of three liquid crystals in the isotropic phase. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 6339-6347	3.9	69
350	Temperature dependence of water dynamics at an aqueous micellar surface: Atomistic molecular dynamics simulation studies of a complex system. <i>Journal of Chemical Physics</i> , <b>2002</b> , 117, 2852-2859	3.9	69
349	Molecular Origin of the Intrinsic Bending Force for Helical Morphology Observed in Chiral Amphiphilic Assemblies: Concentration and Size Dependence. <i>Journal of the American Chemical Society</i> , <b>1996</b> , 118, 11208-11216	16.4	69
348	Ion conductance in electrolyte solutions. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 10024-10034	3.9	67
347	Polarization relaxation, dielectric dispersion, and solvation dynamics in dense dipolar liquid. <i>Journal of Chemical Physics</i> , <b>1989</b> , 90, 7338-7345	3.9	67
346	The role of translational diffusion in the polarization relaxation in dense polar liquids. <i>Chemical Physics Letters</i> , <b>1988</b> , 151, 47-53	2.5	66

345	Ultrafast underdamped solvation: Agreement between computer simulation and various theories of solvation dynamics. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 1310-1319	3.9	65	
344	Two-dimensional reaction free energy surfaces of catalytic reaction: effects of protein conformational dynamics on enzyme catalysis. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 454-66	3.4	64	
343	Ionic mobility in alcohols: From dielectric friction to the solventBerg model. <i>Journal of Chemical Physics</i> , <b>1997</b> , 106, 5587-5598	3.9	63	
342	Liquid crystal dynamics in the isotropic phase. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 360	3.9	63	
341	Beyond the Classical Transport Laws of Electrochemistry: New Microscopic Approach to Ionic Conductance and Viscosity. <i>Journal of Physical Chemistry B</i> , <b>2000</b> , 104, 9067-9080	3.4	62	
340	Mode Coupling Theory Approach to the Liquid-State Dynamics. Advances in Chemical Physics, 2007, 67-	221	60	
339	Influence of non-Debye relaxation and of molecular shape on the time dependence of the stokes shift in polar media. <i>Chemical Physics Letters</i> , <b>1988</b> , 143, 270-276	2.5	59	
338	Diffusion of flexible, charged, nanoscopic molecules in solution: Size and pH dependence for PAMAM dendrimer. <i>Journal of Chemical Physics</i> , <b>2009</b> , 131, 214901	3.9	58	
337	Fluorescence resonance energy transfer (FRET) in chemistry and biology: Non-Fister distance dependence of the FRET rate. <i>Journal of Chemical Sciences</i> , <b>2006</b> , 118, 23-35	1.8	58	
336	Atomistic Simulation Study of the Coupled Motion of Amino Acid Residues and Water Molecules around Protein HP-36: Fluctuations at and around the Active Sites. <i>Journal of Physical Chemistry B</i> , <b>2004</b> , 108, 12608-12616	3.4	58	
335	Molecular theory of solvation and solvation dynamics of a classical ion in a dipolar liquid. <i>The Journal of Physical Chemistry</i> , <b>1989</b> , 93, 6996-7003		57	
334	Structural transformations, composition anomalies and a dramatic collapse of linear polymer chains in dilute ethanol-water mixtures. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 3713-22	3.4	55	
333	Exploring DNA groove water dynamics through hydrogen bond lifetime and orientational relaxation. <i>Journal of Chemical Physics</i> , <b>2006</b> , 125, 234903	3.9	54	
332	Ionic contribution to the viscosity of dilute electrolyte solutions: Towards a microscopic theory. <i>Journal of Chemical Physics</i> , <b>2000</b> , 113, 3226-3232	3.9	52	
331	Dipolar solvation dynamics. Faraday Discussions of the Chemical Society, 1988, 85, 199		52	
330	Pressure and temperature dependence of viscosity and diffusion coefficients of a glassy binary mixture. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 4577-4586	3.9	50	
329	Solvation Dynamics in Slow, Viscous Liquids: Application to Amides <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 1238-1245		50	
328	Dimethyl sulfoxide induced structural transformations and non-monotonic concentration dependence of conformational fluctuation around active site of lysozyme. <i>Journal of Chemical Physics</i> <b>2012</b> 136 115103	3.9	49	

327	Contribution to the theory of freezing. <i>Journal of Chemical Physics</i> , <b>1983</b> , 79, 5595-5604	.9	49
326	Limiting Ionic Conductance of Symmetrical, Rigid Ions in Aqueous Solutions: Temperature Dependence and Solvent Isotope Effects. <i>Journal of the American Chemical Society</i> , <b>1997</b> , 119, 5946-595	6.4	48
325	5 Water solvation dynamics in the bulk and in the hydration layer of proteins and self-assemblies. <i>Annual Reports on the Progress of Chemistry Section C</i> , <b>2003</b> , 99, 127-175		48
324	Prediction of the Senses of Helical Amphiphilic Assemblies from Effective Intermolecular Pair Potential: Studies on Chiral Monolayers and Bilayers. <i>Journal of Physical Chemistry A</i> , <b>1997</b> , 101, 1343-135	8 1	47
323	Hydrogen bond breaking mechanism and water reorientational dynamics in the hydration layer of lysozyme. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 9112-7	·4	45
322	From anomalies in neat liquid to structure, dynamics and function in the biological world. <i>Chemical Physics Letters</i> , <b>2012</b> , 529, 1-9	.5	44
321	Solvation Dynamics in Monohydroxy Alcohols: Agreement between Theory and Different Experiments. <i>Journal of Physical Chemistry B</i> , <b>1997</b> , 101, 2968-2979	·4	44
320	Correlation between rate of folding, energy landscape, and topology in the folding of a model protein HP-36. <i>Journal of Chemical Physics</i> , <b>2003</b> , 118, 4733-4747	.9	44
319	Nonideality in the composition dependence of viscosity in binary mixtures. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 6220-6228	.9	44
318	Exotic dielectric behavior of polar liquids. <i>Journal of Chemical Physics</i> , <b>1989</b> , 91, 3056-3060	.9	44
317	Isomerization dynamics in solution. <i>International Reviews in Physical Chemistry</i> , <b>1987</b> , 6, 1-33		44
316	Elucidating the mechanism of nucleation near the gas-liquid spinodal. <i>Physical Review Letters</i> , <b>2007</b> , 98, 206104	·4	42
315	Anisotropic diffusion of spheroids in liquids: Slow orientational relaxation of the oblates. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 1092-1096	.9	42
314	Fluctuating micro-heterogeneity in water-tert-butyl alcohol mixtures and lambda-type divergence of the mean cluster size with phase transition-like multiple anomalies. <i>Journal of Chemical Physics</i> , 3. <b>2014</b> , 140, 194502	.9	41
313	Relationship between microscopic and macroscopic orientational relaxation times in polar liquids. <i>The Journal of Physical Chemistry</i> , <b>1990</b> , 94, 3152-3156		41
312	Bridging the gap between the mode coupling and the random first order transition theories of structural relaxation in liquids. <i>Physical Review E</i> , <b>2005</b> , 72, 031509	·4	40
311	Power law mass dependence of diffusion: A mode coupling theory analysis. <i>Physical Review E</i> , <b>2000</b> , 61, 3850-6	·4	40
310	On the theory of barrierless electronic relaxation in solution. <i>Journal of Chemical Physics</i> , <b>1987</b> , 87, 5393-5	5 <b>∮</b> 02	40

309	Crucial role of fragmented and isolated defects in persistent relaxation of deeply supercooled water. <i>Journal of Chemical Physics</i> , <b>2018</b> , 149, 124504	3.9	40
308	Solvent sensitivity of protein unfolding: dynamical study of chicken villin headpiece subdomain in water-ethanol binary mixture. <i>Journal of Physical Chemistry B</i> , <b>2013</b> , 117, 15625-38	3.4	39
307	Enhanced tetrahedral ordering of water molecules in minor grooves of DNA: relative role of DNA rigidity, nanoconfinement, and surface specific interactions. <i>Journal of Physical Chemistry B</i> , <b>2010</b> , 114, 3633-8	3.4	39
306	Computer simulation and mode coupling theory study of the effects of specific solutellolvent interactions on diffusion: Crossover from a sub-slip to a super-stick limit of diffusion. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 4477-4482	3.9	39
305	Solvation dynamics of tryptophan in water-dimethyl sulfoxide binary mixture: in search of molecular origin of composition dependent multiple anomalies. <i>Journal of Chemical Physics</i> , <b>2013</b> , 139, 034308	3.9	38
304	Orientation-dependent potential of mean force for protein folding. <i>Journal of Chemical Physics</i> , <b>2005</b> , 123, 014901	3.9	38
303	Stability of a supercooled liquid to periodic density waves and dynamics of freezing. <i>Physica A: Statistical Mechanics and Its Applications</i> , <b>1987</b> , 145, 273-289	3.3	38
302	Anomalous behavior of linear hydrocarbon chains in water-DMSO binary mixture at low DMSO concentration. <i>Journal of Physical Chemistry B</i> , <b>2011</b> , 115, 7612-20	3.4	35
301	Role of conformational dynamics in kinetics of an enzymatic cycle in a nonequilibrium steady state. Journal of Chemical Physics, <b>2009</b> , 131, 065104	3.9	35
300	Interplay Between Ultrafast Polar Solvation and Vibrational Dynamics in Electron Transfer Reactions: Role of High-Frequency Vibrational Modes. <i>Advances in Chemical Physics</i> , <b>2007</b> , 1-80		35
299	Molecular theory of ultrafast solvation in liquid acetonitrile. <i>Journal of Chemical Physics</i> , <b>1993</b> , 99, 3139	-3,1942	35
298	Solvation of an ion and of a dipole in a dipolar liquid: How different are the dynamics?. <i>Chemical Physics Letters</i> , <b>1989</b> , 155, 533-538	2.5	35
297	Protein Hydration Dynamics: Much Ado about Nothing?. <i>Journal of Physical Chemistry Letters</i> , <b>2017</b> , 8, 4878-4882	6.4	34
296	Dynamic coupling between the LID and NMP domain motions in the catalytic conversion of ATP and AMP to ADP by adenylate kinase. <i>Journal of Chemical Physics</i> , <b>2011</b> , 134, 035101	3.9	34
295	Native and unfolded cytochrome ccomparison of dynamics using 2D-IR vibrational echo spectroscopy. <i>Journal of Physical Chemistry B</i> , <b>2008</b> , 112, 10054-63	3.4	34
294	Dielectric and orientational relaxation in a Brownian dipolar lattice. <i>Journal of Chemical Physics</i> , <b>1992</b> , 97, 3610-3620	3.9	34
293	Decoupling phenomena in supercooled liquids: signatures in the energy landscape. <i>Physical Review Letters</i> , <b>2006</b> , 96, 187801	7.4	33
292	Time-dependent survival probability in diffusion-controlled reactions in a polymer chain: Beyond the Wilemski <b>E</b> ixman theory. <i>Journal of Chemical Physics</i> , <b>2002</b> , 116, 7276-7282	3.9	33

291	Vibrational energy relaxation, nonpolar solvation dynamics and instantaneous normal modes: Role of binary interaction in the ultrafast response of a dense liquid. <i>Journal of Chemical Physics</i> , <b>1998</b> , 108, 4963-4971	3.9	33	
<b>2</b> 90	Comparative study of protein unfolding in aqueous urea and dimethyl sulfoxide solutions: surface polarity, solvent specificity, and sequence of secondary structure melting. <i>Journal of Physical Chemistry B</i> , <b>2014</b> , 118, 5691-7	3.4	32	
289	Free energy barriers for escape of water molecules from protein hydration layer. <i>Journal of Physical Chemistry B</i> , <b>2012</b> , 116, 2958-68	3.4	32	
288	Energy landscape, antiplasticization, and polydispersity induced crossover of heterogeneity in supercooled polydisperse liquids. <i>Physical Review Letters</i> , <b>2008</b> , 100, 167801	7.4	32	
287	Isomerization dynamics in viscous liquids: Microscopic investigation of the coupling and decoupling of the rate to and from solvent viscosity and dependence on the intermolecular potential. <i>Journal of Chemical Physics</i> , <b>1999</b> , 110, 7365-7375	3.9	32	
286	Activated barrier crossing dynamics in slow, viscous liquids. <i>Journal of Chemical Physics</i> , <b>1996</b> , 105, 7543	-7.549	32	
285	Time dependent solution of generalized Zusman model of outersphere electron transfer reactions: Applications to various experimental situations. <i>Journal of Chemical Physics</i> , <b>1994</b> , 100, 8802-8816	3.9	32	
284	Needlelike motion of prolate ellipsoids in the sea of spheres. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 798	3 <b>9</b> .799	231	
283	Solvation Dynamics in Nonassociated Polar Solvents. <i>Journal of Physical Chemistry A</i> , <b>1999</b> , 103, 2495-25	5 <b>0</b> 08	31	
282	Microscopic theory of ion solvation dynamics in liquid methanol. <i>Journal of Chemical Physics</i> , <b>1994</b> , 101, 4150-4155	3.9	31	
281	Effects of Ultrafast Solvation on the Rate of Adiabatic Outer-Sphere Electron Transfer Reactions. <i>The Journal of Physical Chemistry</i> , <b>1994</b> , 98, 9207-9215		31	
<b>2</b> 80	New results in the theory of barrierless electronic relaxation in solution. <i>Chemical Physics Letters</i> , <b>1987</b> , 135, 558-564	2.5	31	
279	Non-monotonic dependence of electronic relaxation rate on solvent viscosity. <i>Chemical Physics Letters</i> , <b>1983</b> , 99, 225-231	2.5	31	
278	Enhancement of reaction rate in small-sized droplets: A combined analytical and simulation study. Journal of Chemical Physics, 2018, 148, 244704	3.9	31	
277	Rotation driven translational diffusion of polyatomic ions in water: A novel mechanism for breakdown of Stokes-Einstein relation. <i>Journal of Chemical Physics</i> , <b>2017</b> , 146, 164502	3.9	30	
276	Role of water in the enzymatic catalysis: study of ATP + AMP -l2ADP conversion by adenylate kinase. <i>Journal of Physical Chemistry A</i> , <b>2011</b> , 115, 3691-7	2.8	30	
275	Bimodality of the viscoelastic response of a dense liquid and comparison with the frictional responses at short times. <i>Journal of Chemical Physics</i> , <b>1998</b> , 109, 7885-7892	3.9	30	
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273	Nonexponentiality of time dependent survival probability and the fractional viscosity dependence of the rate in diffusion controlled reactions in a polymer chain. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 9170-9178	3.9	29	
272	Anomalous dielectric relaxation of water molecules at the surface of an aqueous micelle. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 1912-20	3.9	28	
271	Effects of vibrational energy relaxation and reverse reaction on electron transfer kinetics and fluorescence line shapes in solution. <i>Journal of Chemical Physics</i> , <b>2001</b> , 115, 6058-6071	3.9	28	
270	Hydrophobic hydration driven self-assembly of curcumin in water: similarities to nucleation and growth under large metastability, and an analysis of water dynamics at heterogeneous surfaces. Journal of Chemical Physics, <b>2014</b> , 141, 18C501	3.9	27	
269	Decoupling of tracer diffusion from viscosity in a supercooled liquid near the glass transition. <i>Journal of Chemical Physics</i> , <b>1997</b> , 107, 5852-5862	3.9	27	
268	Origin of diverse time scales in the protein hydration layer solvation dynamics: A simulation study. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 154901	3.9	26	
267	What Gives an Insulin Hexamer Its Unique Shape and Stability? Role of Ten Confined Water Molecules. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 1631-1637	3.4	26	
266	Distinguishing dynamical features of water inside protein hydration layer: Distribution reveals what is hidden behind the average. <i>Journal of Chemical Physics</i> , <b>2017</b> , 147, 024901	3.9	26	
265	Relationship between entropy and diffusion: A statistical mechanical derivation of Rosenfeld expression for a rugged energy landscape. <i>Journal of Chemical Physics</i> , <b>2015</b> , 143, 194110	3.9	26	
264	Self-organization of n-alkane chains in water: length dependent crossover from helix and toroid to molten globule. <i>Journal of Physical Chemistry B</i> , <b>2009</b> , 113, 8446-8	3.4	26	
263	The Enskog theory for transport coefficients of simple fluids with continuous potentials. <i>Journal of Chemical Physics</i> , <b>2001</b> , 114, 6276-6285	3.9	26	
262	Anisotropic local stress and particle hopping in a deeply supercooled liquid. <i>Physical Review Letters</i> , <b>2002</b> , 89, 025504	7.4	26	
261	FRET by FET and Dynamics of Polymer Folding. <i>Journal of Physical Chemistry B</i> , <b>2001</b> , 105, 2475-2478	3.4	26	
260	Molecular Origin of the Debye⊞uckel©nsager Limiting Law of Ion Conductance and Its Extension to High Concentrations: Mode Coupling Theory Approach to Electrolyte Friction. <i>Journal of the American Chemical Society</i> , <b>1999</b> , 121, 4082-4083	16.4	26	
259	Self-Consistent Microscopic Treatment of the Effects of Self-Motion of the Probe on Ionic and Dipolar Solvation Dynamics. <i>The Journal of Physical Chemistry</i> , <b>1996</b> , 100, 4261-4268		26	
258	Solvation dynamics, energy distribution and trapping of a light solute ion. <i>Chemical Physics</i> , <b>1994</b> , 183, 207-216	2.3	26	
257	Effect of excitation on non-Markovian vibrational energy relaxation. <i>The Journal of Physical Chemistry</i> , <b>1982</b> , 86, 2197-2205		26	
256	Unique Features of Metformin: A Combined Experimental, Theoretical, and Simulation Study of Its Structure, Dynamics, and Interaction Energetics with DNA Grooves. <i>Journal of Physical Chemistry B</i> , <b>2018</b> , 122, 2227-2242	3.4	25	

255	Contact pair dynamics during folding of two small proteins: chicken villin head piece and the Alzheimer protein beta-amyloid. <i>Journal of Chemical Physics</i> , <b>2004</b> , 120, 1602-12	3.9	25	
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