

# Ranjit Biswas

## List of Publications by Year in descending order

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106  
papers

3,220  
citations

109137

35  
h-index

182168

51  
g-index

106  
all docs

106  
docs citations

106  
times ranked

1329  
citing authors

#	ARTICLE	IF	CITATIONS
1	Interaction and dynamics of (alkylamide + electrolyte) deep eutectics: Dependence on alkyl chain-length, temperature, and anion identity. <i>Journal of Chemical Physics</i> , 2014, 140, 104514.	1.2	91
2	Structural transition in alcohol-water binary mixtures: A spectroscopic study. <i>Journal of Chemical Sciences</i> , 2008, 120, 275-287.	0.7	90
3	Ionic Mobility and Ultrafast Solvation: Control of a Slow Phenomenon by Fast Dynamics. <i>Accounts of Chemical Research</i> , 1998, 31, 181-187.	7.6	88
4	Fluorescence Spectroscopic Studies of (Acetamide + Sodium/Potassium Thiocyanates) Molten Mixtures: Composition and Temperature Dependence. <i>Journal of Physical Chemistry B</i> , 2010, 114, 5066-5081.	1.2	88
5	Anomalous Ion Diffusion in Dense Dipolar Liquids. <i>Physical Review Letters</i> , 1995, 75, 1098-1101.	2.9	87
6	Solvation Dynamics of Dipolar Probes in Dipolar Room Temperature Ionic Liquids: Separation of Ion-Dipole and Dipole-Dipole Interaction Contributions. <i>Journal of Physical Chemistry B</i> , 2010, 114, 254-268.	1.2	87
7	Polar and Nonpolar Solvation Dynamics, Ion Diffusion, and Vibrational Relaxation: Role of Biphasic Solvent Response in Chemical Dynamics. <i>Advances in Chemical Physics</i> , 2007, , 207-433.	0.3	80
8	Medium decoupling of dynamics at temperatures $\sim 1/4$ 100 K above glass-transition temperature: A case study with (acetamide + lithium bromide/nitrate) melts. <i>Journal of Chemical Physics</i> , 2012, 136, 174503.	1.2	77
9	Dielectric Relaxations of (Acetamide + Electrolyte) Deep Eutectic Solvents in the Frequency Window, 0.2 $\sim$ 1/2/GHz $\sim$ 50: Anion and Cation Dependence. <i>Journal of Physical Chemistry B</i> , 2015, 119, 8063-8071.	1.2	74
10	Dynamic Solvent Control of a Reaction in Ionic Deep Eutectic Solvents: Time-Resolved Fluorescence Measurements of Reactive and Nonreactive Dynamics in (Choline Chloride + Urea) Melts. <i>Journal of Physical Chemistry B</i> , 2015, 119, 10102-10113.	1.2	72
11	Density relaxation and particle motion characteristics in a non-ionic deep eutectic solvent (acetamide) $T_j$ ETQq1 1 0.784314 rgBT /Over <i>Journal of Chemical Physics</i> , 2015, 142, 034505.	1.2	69
12	Dipolar Solvation Dynamics in Room Temperature Ionic Liquids: An Effective Medium Calculation Using Dielectric Relaxation Data. <i>Journal of Physical Chemistry B</i> , 2008, 112, 12431-12438.	1.2	68
13	Ionic mobility in alcohols: From dielectric friction to the solvent-berg model. <i>Journal of Chemical Physics</i> , 1997, 106, 5587-5598.	1.2	66
14	Reorientational Jump Dynamics and Its Connections to Hydrogen Bond Relaxation in Molten Acetamide: An All-Atom Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 274-283.	1.2	63
15	Spectroscopic Studies of Catanionic Reverse Microemulsion: Correlation with the Superactivity of Horseradish Peroxidase Enzyme in a Restricted Environment. <i>Journal of Physical Chemistry B</i> , 2008, 112, 6620-6628.	1.2	62
16	Orientational Jumps in (Acetamide + Electrolyte) Deep Eutectics: Anion Dependence. <i>Journal of Physical Chemistry B</i> , 2015, 119, 11157-11168.	1.2	61
17	Intramolecular Charge Transfer Reaction, Polarity, and Dielectric Relaxation in AOT/Water/Heptane Reverse Micelles: Pool Size Dependence. <i>Journal of Physical Chemistry B</i> , 2008, 112, 9379-9388.	1.2	59
18	Excited State Intramolecular Charge Transfer Reaction in Binary Mixtures of Water and Tertiary Butanol (TBA): Alcohol Mole Fraction Dependence. <i>Journal of Physical Chemistry A</i> , 2008, 112, 915-924.	1.1	57

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19	Heterogeneity and viscosity decoupling in (acetamide+electrolyte) molten mixtures: A model simulation study. <i>Chemical Physics Letters</i> , 2011, 517, 180-185.	1.2	55
20	Solvation Dynamics in Slow, Viscous Liquids: Application to Amides. <i>The Journal of Physical Chemistry</i> , 1996, 100, 1238-1245.	2.9	52
21	Limiting Ionic Conductance of Symmetrical, Rigid Ions in Aqueous Solutions: Temperature Dependence and Solvent Isotope Effects. <i>Journal of the American Chemical Society</i> , 1997, 119, 5946-5953.	6.6	52
22	Stokes Shift Dynamics in Ionic Liquids: Temperature Dependence. <i>Journal of Physical Chemistry B</i> , 2010, 114, 16811-16823.	1.2	52
23	Fluorescence dynamics in supercooled (acetamide+calcium nitrate) molten mixtures. <i>Chemical Physics Letters</i> , 2011, 501, 358-363.	1.2	51
24	Slow solvation in ionic liquids: Connections to non-Gaussian moves and multi-point correlations. <i>Journal of Chemical Physics</i> , 2014, 141, 104501.	1.2	49
25	Solvation Dynamics in Monohydroxy Alcohols: Agreement between Theory and Different Experiments. <i>Journal of Physical Chemistry B</i> , 1997, 101, 2968-2979.	1.2	48
26	Fast fluctuations in deep eutectic melts: Multi-probe fluorescence measurements and all-atom molecular dynamics simulation study. <i>Chemical Physics Letters</i> , 2013, 581, 47-51.	1.2	47
27	Glass transition dynamics and conductivity scaling in ionic deep eutectic solvents: The case of (acetamide + lithium nitrate/sodium thiocyanate) melts. <i>Journal of Chemical Physics</i> , 2015, 142, 184504.	1.2	46
28	Rank-dependent orientational relaxation in an ionic liquid: an all-atom simulation study. <i>Theoretical Chemistry Accounts</i> , 2013, 132, 1.	0.5	45
29	Heterogeneity in Binary Mixtures of (Water + Tertiary Butanol): Temperature Dependence Across Mixture Composition. <i>Journal of Physical Chemistry A</i> , 2011, 115, 2447-2455.	1.1	43
30	Low-frequency collective dynamics in deep eutectic solvents of acetamide and electrolytes: A femtosecond Raman-induced Kerr effect spectroscopic study. <i>Journal of Chemical Physics</i> , 2014, 141, 134506.	1.2	42
31	Electrolyte-Concentration and Ion-Size Dependence of Excited-State Intramolecular Charge-Transfer Reaction in (Alkylamino)benzonitriles: Steady-State Spectroscopic Studies. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11514-11523.	1.1	39
32	Solute and Solvent Dynamics in Confined Equal-Sized Aqueous Environments of Charged and Neutral Reverse Micelles: A Combined Dynamic Fluorescence and All-Atom Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2013, 117, 3345-3361.	1.2	38
33	Composition Dependence of Dynamic Heterogeneity Time- and Length Scales in [Omim][BF <sub>4</sub> ]/Water Binary Mixtures: Molecular Dynamics Simulation Study. <i>Journal of Physical Chemistry B</i> , 2015, 119, 15683-15695.	1.2	38
34	Dynamics of a PEG based non-ionic deep eutectic solvent: Temperature dependence. <i>Fluid Phase Equilibria</i> , 2017, 448, 22-29.	1.4	37
35	Heterogeneity in (2-butoxyethanol + water) mixtures: Hydrophobicity-induced aggregation or criticality-driven concentration fluctuations?. <i>Journal of Chemical Physics</i> , 2015, 142, 204501.	1.2	36
36	Solvation Dynamics in Nonassociated Polar Solvents. <i>Journal of Physical Chemistry A</i> , 1999, 103, 2495-2500.	1.1	35

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37	Electrolyte-Concentration and Ion-Size Dependence of Excited-State Intramolecular Charge-Transfer Reaction in (Alkylamino)benzonitriles: Time-Resolved Fluorescence Emission Studies. <i>Journal of Physical Chemistry A</i> , 2007, 111, 11524-11530.	1.1	35
38	Dielectric relaxation in ionic liquids: Role of ion-ion and ion-dipole interactions, and effects of heterogeneity. <i>Journal of Chemical Physics</i> , 2014, 140, 014504.	1.2	35
39	Activated barrier crossing dynamics in slow, viscous liquids. <i>Journal of Chemical Physics</i> , 1996, 105, 7543-7549.	1.2	34
40	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> , 1998, 108, 4963-4971.	1.2	34
41	Structural anomaly and dynamic heterogeneity in cycloether/water binary mixtures: Signatures from composition dependent dynamic fluorescence measurements and computer simulations. <i>Journal of Chemical Physics</i> , 2016, 144, 124506.	1.2	34
42	Dielectric relaxation in acetamide + urea deep eutectics and neat molten urea: Origin of time scales via temperature dependent measurements and computer simulations. <i>Journal of Chemical Physics</i> , 2018, 149, 124501.	1.2	34
43	Interaction and Dynamics in a Fully Biodegradable Glucose-Containing Naturally Abundant Deep Eutectic Solvent: Temperature-Dependent Time-Resolved Fluorescence Measurements. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9378-9387.	1.2	34
44	Composition Dependent Stokes Shift Dynamics in Binary Mixtures of 1-Butyl-3-methylimidazolium Tetrafluoroborate with Water and Acetonitrile: Quantitative Comparison between Theory and Complete Measurements. <i>Journal of Physical Chemistry B</i> , 2014, 118, 1327-1339.	1.2	33
45	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> , 1999, 110, 7365-7375.	1.2	32
46	Limiting ionic conductivity and solvation dynamics in formamide. <i>Journal of Chemical Physics</i> , 2006, 125, 174506.	1.2	32
47	Ultrafast solvation response in room temperature ionic liquids: Possible origin and importance of the collective and the nearest neighbour solvent modes. <i>Journal of Chemical Physics</i> , 2012, 137, 114501.	1.2	32
48	Influence of Chain Length of Alcohols on Stokes Shift Dynamics in Catanionic Vesicles. <i>Journal of Physical Chemistry B</i> , 2011, 115, 9040-9049.	1.2	31
49	Stokes shift dynamics of ionic liquids: Solute probe dependence, and effects of self-motion, dielectric relaxation frequency window, and collective intermolecular solvent modes. <i>Journal of Chemical Physics</i> , 2013, 139, 164503.	1.2	31
50	Subpicosecond Solvation Response and Partial Viscosity Decoupling of Solute Diffusion in Ionic Acetamide Deep Eutectic Solvents: Fluorescence Up-Conversion and Fluorescence Correlation Spectroscopic Measurements. <i>Journal of Physical Chemistry B</i> , 2020, 124, 1995-2005.	1.2	31
51	Hydrogen-bond dynamics of water in presence of an amphiphile, tetramethylurea: signature of confinement-induced effects. <i>Molecular Simulation</i> , 2015, 41, 471-482.	0.9	30
52	Collective dynamic dipole moment and orientation fluctuations, cooperative hydrogen bond relaxations, and their connections to dielectric relaxation in ionic acetamide deep eutectics: Microscopic insight from simulations. <i>Journal of Chemical Physics</i> , 2016, 145, 084504.	1.2	28
53	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> , 1996, 100, 4261-4268.	2.9	26
54	Excited state intramolecular charge transfer reaction in nonaqueous electrolyte solutions: Temperature dependence. <i>Journal of Chemical Physics</i> , 2009, 131, 054507.	1.2	26

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55	Molecular Theory for the Effects of Specific Solute-Solvent Interaction on the Diffusion of a Solute Particle in a Molecular Liquid. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3252-3256.	1.2	25
56	Temperature-Dependent Ultrafast Solvation Response and Solute Diffusion in Acetamide-Urea Deep Eutectic Solvent. <i>Journal of Physical Chemistry B</i> , 2019, 123, 9212-9221.	1.2	25
57	How Heterogeneous Are Trehalose/Glycerol Cryoprotectant Mixtures? A Combined Time-Resolved Fluorescence and Computer Simulation Investigation. <i>Journal of Physical Chemistry B</i> , 2016, 120, 11214-11228.	1.2	24
58	Ions in a binary asymmetric dipolar mixture: Mole fraction dependent Born energy of solvation and partial solvent polarization structure. <i>Journal of Chemical Physics</i> , 2007, 127, 184502.	1.2	21
59	Dipolar Solute Rotation in a Supercritical Polar Fluid. <i>Journal of Physical Chemistry A</i> , 2011, 115, 973-978.	1.1	19
60	Stokes shift dynamics in alkylimidazolium aluminate ionic liquids: Domination of solute-IL dipole-dipole interaction. <i>Chemical Physics Letters</i> , 2011, 510, 202-207.	1.2	19
61	Microstructures and their lifetimes in acetamide/electrolyte deep eutectics: anion dependence. <i>Journal of Chemical Sciences</i> , 2017, 129, 939-951.	0.7	18
62	Heterogeneous Orientational Relaxations and Translation-Rotation Decoupling in (Choline Chloride) Tj ETQq0 0 0 rgBT /Overlock 10 T Relaxation Measurements. <i>Journal of Physical Chemistry B</i> , 2021, 125, 5920-5936.	1.2	17
63	Stokes shift dynamics of [Na][TOTO] - A new class of ionic liquids: A comparative study with more common imidazolium analogs. <i>Chemical Physics Letters</i> , 2012, 545, 54-59.	1.2	16
64	Is dynamic heterogeneity of water in presence of a protein denaturing agent different from that in presence of a protein stabilizer? A molecular dynamics simulation study. <i>Journal of Chemical Sciences</i> , 2016, 128, 1943-1954.	0.7	15
65	Heterogeneous dynamics, correlated time and length scales in ionic deep eutectics: Anion and temperature dependence. <i>Journal of Chemical Physics</i> , 2020, 153, 234502.	1.2	15
66	Dielectric relaxation in ionic liquid/dipolar solvent binary mixtures: A semi-molecular theory. <i>Journal of Chemical Physics</i> , 2016, 144, 104505.	1.2	14
67	Impact of the aggregation behaviour of sodium cholate and sodium deoxycholate on aqueous solution structure and dynamics: A combined time resolved fluorescence and dielectric relaxation spectroscopic study. <i>Journal of Molecular Liquids</i> , 2016, 222, 495-502.	2.3	14
68	Orientational dynamics in a room temperature ionic liquid: Are angular jumps predominant?. <i>Journal of Chemical Physics</i> , 2018, 148, 193839.	1.2	14
69	How frictional response during solute solvation controls solute rotation in naturally abundant deep eutectic solvent (NADES)? A case study with amino acid derivative containing DES. <i>Journal of Molecular Liquids</i> , 2020, 303, 112451.	2.3	14
70	Excited state intramolecular charge transfer reaction in non-aqueous reverse micelles: Effects of solvent confinement and electrolyte concentration#. <i>Journal of Chemical Sciences</i> , 2012, 124, 355-373.	0.7	13
71	Dipolar solute rotation in ionic liquids, electrolyte solutions and common polar solvents: Emergence of universality. <i>Chemical Physics Letters</i> , 2013, 558, 36-41.	1.2	13
72	Does polar interaction influence medium viscosity? A computer simulation investigation using model liquids. <i>Journal of Chemical Sciences</i> , 2012, 124, 763-771.	0.7	12

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73	Ionic arrest of segmental motion and emergence of spatio-temporal heterogeneity: A fluorescence investigation of (polyethylene glycol + electrolyte) composites. <i>Journal of Chemical Physics</i> , 2013, 138, 114909.	1.2	11
74	Stokes shift dynamics in (non-dipolar ionic liquid + dipolar solvent) binary mixtures: A semi-molecular theory. <i>Journal of Chemical Physics</i> , 2014, 141, 164502.	1.2	10
75	Are water-xylitol mixtures heterogeneous? An investigation employing composition and temperature dependent dielectric relaxation and time-resolved fluorescence measurements. <i>Journal of Chemical Sciences</i> , 2019, 131, 1.	0.7	10
76	Does Confinement Modify Preferential Solvation and H-Bond Fluctuation Dynamics? A Molecular Level Investigation through Simulations of a Bulk and Confined Three-Component Mixture. <i>Journal of Physical Chemistry B</i> , 2020, 124, 11718-11729.	1.2	10
77	Dynamic Susceptibility and Structural Heterogeneity of Large Reverse Micellar Water: An Examination of the Core-Shell Model via Probing the Layer-wise Features. <i>Journal of Physical Chemistry B</i> , 2020, 124, 2848-2863.	1.2	10
78	Solute rotation in polar liquids: Microscopic basis for the Stokes-Einstein-Debye model. <i>Journal of Chemical Physics</i> , 2012, 136, 014505.	1.2	9
79	Exploring Aqueous Solution Dynamics of an Amphiphilic Diblock Copolymer: Dielectric Relaxation and Time-Resolved Fluorescence Measurements. <i>Journal of Physical Chemistry B</i> , 2019, 123, 5892-5901.	1.2	9
80	Cloud Point Driven Dynamics in Aqueous Solutions of Thermoresponsive Copolymers: Are They Akin to Criticality Driven Solution Dynamics?. <i>Journal of Physical Chemistry B</i> , 2019, 123, 11042-11054.	1.2	9
81	Are N-methyl groups of Tetramethylurea (TMU) Hydrophobic? A composition and temperature-dependent fluorescence spectroscopic investigation of TMU/water binary mixtures. <i>Journal of Chemical Sciences</i> , 2016, 128, 753-761.	0.7	8
82	Cosolvent polarity dependence of solution structure in [BMIM] [PF6]+Acetonitrile/1, 4-dioxane/hexane binary mixtures: Insights from composition dependent Voronoi polyhedra analyses, iso-surfaces and radial distribution functions. <i>Journal of Molecular Liquids</i> , 2020, 317, 113746.	2.3	8
83	Water in biodegradable glucose-water-urea deep eutectic solvent: modifications of structure and dynamics in a crowded environment. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 12191-12203.	1.3	8
84	Intramolecular Charge Transfer Reaction in Solutions of Low to High Electrolyte Concentrations: Interplay between Friction and Solvation. <i>Journal of Solution Chemistry</i> , 2009, 38, 517-530.	0.6	7
85	Solvent sorting in (mixed solvent + electrolyte) systems: Time-resolved fluorescence measurements and theory. <i>Journal of Chemical Sciences</i> , 2015, 127, 61-70.	0.7	7
86	Solvent dependent relaxation dynamics in lithium ion battery electrolytes: Coupling to medium friction. <i>Journal of Molecular Liquids</i> , 2019, 290, 111225.	2.3	7
87	Hydration dynamics in aqueous Pluronic P123 solution: Concentration and temperature dependence. <i>Journal of Chemical Physics</i> , 2019, 151, 184901.	1.2	7
88	Temperature-Dependent Dielectric Relaxation in Ionic Acetamide Deep Eutectics: Partial Viscosity Decoupling and Explanations from the Simulated Single-Particle Reorientation Dynamics and Hydrogen-Bond Fluctuations. <i>Journal of Physical Chemistry B</i> , 2021, 125, 12552-12567.	1.2	7
89	Does urea modify microheterogeneous nature of ionic amide deep eutectics? Clues from non-reactive and reactive solute-centered dynamics. <i>Journal of Molecular Liquids</i> , 2022, 349, 118126.	2.3	7
90	Excited state charge transfer reaction in (mixed solvent + electrolyte) systems: Role of reactant-solvent and reactant-ion interactions. <i>Journal of Chemical Sciences</i> , 2011, 123, 265-277.	0.7	6

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91	Dynamics at the non-ionic micelle/water interface: Impact of linkage substitution. <i>Journal of Chemical Physics</i> , 2019, 151, 154902.	1.2	6
92	Interactions and Dynamics in Aqueous Solutions of pH-Responsive Polymers: A Combined Fluorescence and Dielectric Relaxation Study. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6023-6035.	1.2	5
93	Dielectric relaxations of molten acetamide: dependence on the model interaction potentials and the effects of system size. <i>Journal of Chemical Sciences</i> , 2021, 133, 1.	0.7	5
94	Excited state intramolecular charge transfer reaction in 4-(1-azetidiny)benzointrile: Solvent isotope effects. <i>Journal of Chemical Sciences</i> , 2009, 121, 95-101.	0.7	4
95	Excited state intramolecular charge transfer reaction of 4-(morpholenyl) benzointrile in solution: Effects of hetero atom in the donor moiety. <i>Journal of Chemical Sciences</i> , 2010, 122, 481-490.	0.7	4
96	Specific Conductivities and Viscosities of 0.1LiNO <sub>3</sub> + 0.9[ <i>x</i> CH <sub>3</sub> CONH <sub>2</sub> + (1 - <i>x</i> )CO(NH <sub>2</sub> ) <sub>2</sub> ] as Functions of Mole Fraction, <i>x</i> , and Temperature. <i>Journal of Chemical &amp; Engineering Data</i> , 2012, 57, 3467-3472.	1.0	4
97	Comment on "Dynamics of solvated ion in polar liquids: An interaction-site-model description". <i>Chem. Phys.</i> 108, 7339 (1998)]. <i>Journal of Chemical Physics</i> , 1999, 110, 1833-1834.	1.2	3
98	Non-ideality in Born-free energy of solvation in alcohol-water and dimethylsulfoxide-acetonitrile mixtures: Solvent size ratio and ion size dependence. <i>Journal of Chemical Sciences</i> , 2007, 119, 391-399.	0.7	3
99	Anomalous solubility of organic solutes in supercritical water: A molecular explanation. <i>Journal of Chemical Sciences</i> , 1999, 111, 387-394.	0.7	3
100	Dynamical Anomaly of Aqueous Amphiphilic Solutions: Connection to Solution H-Bond Fluctuation Dynamics?. <i>ACS Omega</i> , 2022, 7, 10970-10984.	1.6	3
101	Solvation dynamics of a charge bubble in water. <i>Journal of Chemical Sciences</i> , 1997, 109, 347-352.	0.7	2
102	Solvent density mode instability in non-polar solutions. <i>Pramana - Journal of Physics</i> , 2008, 71, 211-232.	0.9	1
103	Effects of acid concentration on intramolecular charge transfer reaction of 4-(azetidiny) benzointrile in solution. <i>Journal of Chemical Sciences</i> , 2014, 126, 55-63.	0.7	1
104	Heterogeneous dynamics in [BMIM][PF <sub>6</sub> ] + Cosolvent binary Mixtures: Does It depend upon cosolvent Polarity?. <i>Journal of Molecular Liquids</i> , 2021, 341, 117342. <a href="https://www.w3.org/1998/Math/MathML">https://www.w3.org/1998/Math/MathML</a>	2.3	1
105	$E$ based polymer gel Electrolyte: A combined frequency dependent dielectric relaxation and Time-resolved fluorescence spectroscopic study. <i>Journal of Molecular Liquids</i> , 2022, 360, 119491.	2.3	1
106	Why do some reactions possess similar reaction rate in wildly different viscous media? A possible explanation via frequency-dependent friction. <i>Journal of Chemical Sciences</i> , 2022, 134, 1.	0.7	0