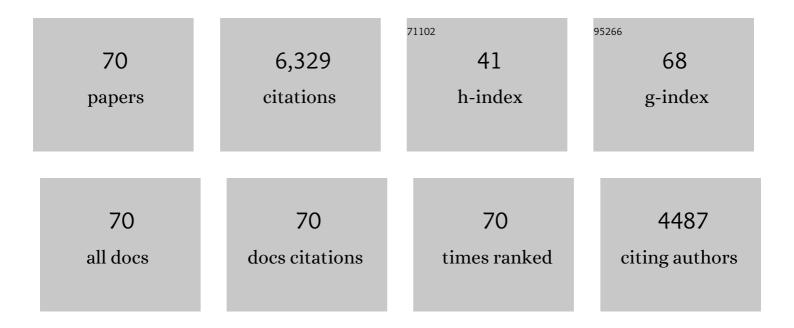
Edward W Castner Jr

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Spotlight on ionic liquids. Journal of Chemical Physics, 2010, 132, 120901.	3.0	366
2	Subpicosecond resolution studies of solvation dynamics in polar aprotic and alcohol solvents. Journal of Chemical Physics, 1987, 86, 1090-1097.	3.0	343
3	Ionic Liquids: Structure and Photochemical Reactions. Annual Review of Physical Chemistry, 2011, 62, 85-105.	10.8	310
4	Femtosecond to nanosecond solvation dynamics in pure water and inside the Î ³ -cyclodextrin cavity. Journal of the Chemical Society, Faraday Transactions, 1995, 91, 867-873.	1.7	261
5	Intermolecular Dynamics, Interactions, and Solvation in Ionic Liquids. Accounts of Chemical Research, 2007, 40, 1217-1227.	15.6	237
6	Fast responses from â€~â€~slowly relaxing'' liquids: A comparative study of the femtosecond dynamics of triacetin, ethylene glycol, and water. Journal of Chemical Physics, 1993, 99, 7289-7299.	3.0	221
7	Femtosecond dynamics of hydrogenâ€bonding solvents. Formamide andNâ€methylformamide in acetonitrile, DMF, and water. Journal of Chemical Physics, 1993, 99, 113-125.	3.0	194
8	Ultrafast Structural Rearrangements in the MLCT Excited State for Copper(I)bis-Phenanthrolines in Solution. Journal of the American Chemical Society, 2007, 129, 2147-2160.	13.7	193
9	Solvent as Electron Donor:  Donor/Acceptor Electronic Coupling Is a Dynamical Variable. Journal of Physical Chemistry A, 2000, 104, 2869-2885.	2.5	173
10	Why Are Viscosities Lower for Ionic Liquids with â^'CH2Si(CH3)3vs â^'CH2C(CH3)3Substitutions on the Imidazolium Cations?. Journal of Physical Chemistry B, 2005, 109, 21576-21585.	2.6	171
11	Temperature-dependent structure of ionic liquids: X-ray scattering and simulations. Faraday Discussions, 2012, 154, 133-143.	3.2	171
12	Fluorescence Probing of Temperature-Dependent Dynamics and Friction in Ionic Liquid Local Environmentsâ€. Journal of Physical Chemistry B, 2007, 111, 4963-4977.	2.6	166
13	Ultrafast dynamics of pyrrolidinium cation ionic liquids. Journal of Chemical Physics, 2005, 122, 184512.	3.0	160
14	Time-Dependent Density Functional Theory Investigation of the Ground and Excited States of Coumarins 102, 152, 153, and 343. Journal of Physical Chemistry A, 2002, 106, 12117-12123.	2.5	158
15	Theoretical Investigation of the Ground and Excited States of Coumarin 151 and Coumarin 120. Journal of Physical Chemistry A, 2002, 106, 9294-9305.	2.5	156
16	The Physical Chemistry of Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 4639-4640.	2.6	155
17	Temperature-dependent structure of methyltributylammonium bis(trifluoromethylsulfonyl)amide: X ray scattering and simulations. Journal of Chemical Physics, 2011, 134, 064501.	3.0	139
18	Physical Properties and Intermolecular Dynamics of an Ionic Liquid Compared with Its Isoelectronic Neutral Binary Solution. Journal of Physical Chemistry A, 2005, 109, 9388-9392.	2.5	136

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19	How Does the Ionic Liquid Organizational Landscape Change when Nonpolar Cationic Alkyl Groups Are Replaced by Polar Isoelectronic Diethers?. Journal of Physical Chemistry B, 2013, 117, 1130-1135.	2.6	134
20	Communication: X-ray scattering from ionic liquids with pyrrolidinium cations. Journal of Chemical Physics, 2011, 134, 121101.	3.0	127
21	Intermolecular Dynamics of Substituted Benzene and Cyclohexane Liquids, Studied by Femtosecond Nonlinear-Optical Polarization Spectroscopy. The Journal of Physical Chemistry, 1996, 100, 3330-3343.	2.9	126
22	Fluorescence Probing of Interior, Interfacial, and Exterior Regions in Solution Aggregates of Poly(ethylene oxide)â^' Poly(propylene oxide)â^'Poly(ethylene oxide) Triblock Copolymers. Langmuir, 2005, 21, 1745-1752.	3.5	121
23	Structure of 1-Alkyl-1-methylpyrrolidinium Bis(trifluoromethylsulfonyl)amide Ionic Liquids with Linear, Branched, and Cyclic Alkyl Groups. Journal of Physical Chemistry B, 2013, 117, 15328-15337.	2.6	121
24	Comparing intermediate range order for alkyl- vs. ether-substituted cations in ionic liquids. Chemical Communications, 2012, 48, 4959.	4.1	116
25	The dynamics of polar solvation: Inhomogeneous dielectric continuum models. Journal of Chemical Physics, 1988, 89, 3519-3534.	3.0	115
26	Intermolecular Interactions and Dynamics of Room Temperature Ionic Liquids That Have Silyl- and Siloxy-Substituted Imidazolium Cationsâ€. Journal of Physical Chemistry B, 2007, 111, 4819-4829.	2.6	109
27	Nuclear Magnetic Resonance Study of the Dynamics of Imidazolium Ionic Liquids with â^'CH2Si(CH3)3vs â^'CH2C(CH3)3Substituentsâ€. Journal of Physical Chemistry B, 2007, 111, 4885-4893.	2.6	101
28	Aqueous dimethyl sulfoxide solutions: Inter- and intra-molecular dynamics. Journal of Chemical Physics, 2002, 116, 4643-4654.	3.0	96
29	Microviscosity in Multiple Regions of Complex Aqueous Solutions of Poly(ethylene) Tj ETQq1 1 0.784314 rgBT /C 22273-22284.	verlock 10 2.6) Tf 50 347 96
30	Dynamic Fluorescence Probing of the Local Environments within Amphiphilic Starlike Macromolecules. Journal of Physical Chemistry B, 2002, 106, 7463-7468.	2.6	85
31	Solvation in highly nonideal solutions: A study of aqueous 1-propanol using the coumarin 153 probe. Journal of Chemical Physics, 2000, 112, 2367-2376.	3.0	81
32	A Molecular Dynamics Study of Aggregation Phenomena in Aqueousn-Propanol. Journal of Physical Chemistry B, 2004, 108, 7389-7401.	2.6	81
33	Ultrafast Dynamics in Aqueous Polyacrylamide Solutions. Journal of the American Chemical Society, 2001, 123, 12877-12885.	13.7	78
34	Influence of non-Debye relaxation and of molecular shape on the time dependence of the stokes shift in polar media. Chemical Physics Letters, 1988, 143, 270-276.	2.6	64
35	Molecular Recognition and Electron Transfer Across a Hydrogen Bonding Interface. Journal of the American Chemical Society, 2000, 122, 1233-1234.	13.7	63
36	Dipolar solvation dynamics. Faraday Discussions of the Chemical Society, 1988, 85, 199.	2.2	55

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37	Structure of cyano-anion ionic liquids: X-ray scattering and simulations. Journal of Chemical Physics, 2016, 145, 024503.	3.0	54
38	Differences in Ion Interactions for Isoelectronic Ionic Liquid Homologs. Journal of Physical Chemistry Letters, 2013, 4, 1477-1483.	4.6	47
39	A Theoretical Investigation of the Shape and Hydration Properties of Aqueous Urea:  Evidence for Nonplanar Urea Geometry. Journal of Physical Chemistry B, 2004, 108, 17583-17590.	2.6	46
40	Structures of Ionic Liquids Having Both Anionic and Cationic Octyl Tails: Lamellar Vacuum Interface vs Sponge-Like Bulk Order. Journal of Physical Chemistry Letters, 2016, 7, 3785-3790.	4.6	46
41	Ionic liquids and solids with paramagnetic anions. Physical Chemistry Chemical Physics, 2010, 12, 8919.	2.8	44
42	Interactions between water and 1-butyl-1-methylpyrrolidinium ionic liquids. Journal of Chemical Physics, 2015, 143, 064503.	3.0	40
43	Reductive quenching of the emission of trans-dioxo(1,4,8,11-tetramethyl-1,4,8,11-tetraazacyclotetradecane)osmium(VI) in water. Inorganic Chemistry, 1993, 32, 4200-4208.	4.0	39
44	Ionic liquid ultrathin films at the surface of Cu(100) and Au(111). Journal of Chemical Physics, 2017, 146, 054704.	3.0	35
45	Connecting Structural and Transport Properties of Ionic Liquids with Cationic Oligoether Chains. Journal of the Electrochemical Society, 2017, 164, H5247-H5262.	2.9	33
46	A Comparison of Electron-Transfer Dynamics in Ionic Liquids and Neutral Solvents. Journal of Physical Chemistry C, 2012, 116, 5197-5208.	3.1	31
47	Photoinduced Bimolecular Electron Transfer in Ionic Liquids. Journal of the American Chemical Society, 2017, 139, 14568-14585.	13.7	30
48	Communication: Unusual structure and transport in ionic liquid-hexane mixtures. Journal of Chemical Physics, 2015, 142, 121101.	3.0	29
49	Ionic Liquid–Solute Interactions Studied by 2D NOE NMR Spectroscopy. Journal of Physical Chemistry B, 2015, 119, 9225-9235.	2.6	29
50	Structure and dynamics of ionic liquids: Trimethylsilylpropyl-substituted cations and bis(sulfonyl)amide anions. Journal of Chemical Physics, 2016, 145, 244506.	3.0	27
51	Microscopic Structural and Dynamic Features in Triphilic Room Temperature Ionic Liquids. Frontiers in Chemistry, 2019, 7, 285.	3.6	25
52	Intriguing transport dynamics of ethylammonium nitrate–acetonitrile binary mixtures arising from nano-inhomogeneity. Physical Chemistry Chemical Physics, 2017, 19, 27212-27220.	2.8	24
53	Structural analysis of zwitterionic liquids vs. homologous ionic liquids. Journal of Chemical Physics, 2018, 148, 193807.	3.0	24
54	Local Polarity and Microviscosity in the Hydrophobic Cores of Amphiphilic Star-like and Scorpion-like Macromolecules. Macromolecules, 2007, 40, 3739-3748.	4.8	21

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55	Photoinduced Bimolecular Electron Transfer from Cyano Anions in Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 14790-14799.	2.6	21
56	Structure of ionic liquids with cationic silicon-substitutions. Journal of Chemical Physics, 2016, 145, .	3.0	21
57	On the generalized continuum model of dipolar solvation dynamics. Journal of Molecular Structure, 1989, 194, 171-181.	3.6	20
58	Interfacial Electron Transfer Dynamics of Photosensitized Zinc Oxide Nanoclusters. ACS Symposium Series, 1997, , 221-238.	0.5	20
59	Structural analysis of ionic liquids with symmetric and asymmetric fluorinated anions. Journal of Chemical Physics, 2019, 151, 074504.	3.0	20
60	Conformational Analysis of the Electron-Transfer Kinetics across Oligoproline Peptides UsingN,N-Dimethyl-1,4-benzenediamine Donors and Pyrene-1-sulfonyl Acceptorsâ€. Journal of Physical Chemistry B, 2007, 111, 6878-6886.	2.6	19
61	Structure and dynamics of propylammonium nitrate-acetonitrile mixtures: An intricate multi-scale system probed with experimental and theoretical techniques. Journal of Chemical Physics, 2018, 148, 134507.	3.0	18
62	Biophysical characterization of natural and mutant fluorescent proteins cloned from zooxanthellate corals. FEBS Letters, 2004, 570, 175-183.	2.8	15
63	Ionic Liquids with Symmetric Diether Tails: Bulk and Vacuum-Liquid Interfacial Structures. Journal of Physical Chemistry B, 2017, 121, 174-179.	2.6	15
64	Photoinduced Bimolecular Electron Transfer in Ionic Liquids: Cationic Electron Donors. Journal of Physical Chemistry B, 2018, 122, 2379-2388.	2.6	15
65	Photoluminescence Decay Dynamics and Mechanism of Energy Transfer in Undoped and Mn ²⁺ Doped ZnSe Nanoparticles. Journal of Nanoscience and Nanotechnology, 2005, 5, 1492-1497.	0.9	14
66	Electron-Transfer Dynamics for a Donor–Bridge–Acceptor Complex in Ionic Liquids. Journal of Physical Chemistry B, 2015, 119, 11336-11345.	2.6	13
67	Liquid Structure of CO ₂ –Reactive Aprotic Heterocyclic Anion Ionic Liquids from X-ray Scattering and Molecular Dynamics. Journal of Physical Chemistry B, 2016, 120, 11951-11960.	2.6	12
68	ROAMing in mutable voids: Polymer free volumes from wobbling vibrational probes. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 15385-15387.	7.1	3
69	Spectroscopic Studies of Rilpivirine (TMC278/R278474) in Complex with HIVâ€1 Reverse Transcriptase. FASEB Journal, 2007, 21, A630.	0.5	0
70	Mixtures of octanol and an ionic liquid: Structure and transport. Journal of Chemical Physics, 2020, 153, 214501.	3.0	0