

Edward L Quitevis

List of Publications by Year in descending order

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79
papers

3,620
citations

147566

31
h-index

128067

60
g-index

85
all docs

85
docs citations

85
times ranked

3002
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of solvent polarity on nonradiative processes in xanthene dyes: Rhodamine B in normal alcohols. <i>The Journal of Physical Chemistry</i> , 1988, 92, 6590-6594.	2.9	241
2	Morphology and intermolecular dynamics of 1-alkyl-3-methylimidazolium bis{(trifluoromethane)sulfonyl}amide ionic liquids: structural and dynamic evidence of nanoscale segregation. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 424121.	0.7	236
3	Dynamics of ionic lipophilic probes in micelles: picosecond fluorescence depolarization measurements. <i>The Journal of Physical Chemistry</i> , 1993, 97, 5762-5769.	2.9	229
4	Nanostructural Organization and Anion Effects on the Temperature Dependence of the Optical Kerr Effect Spectra of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2007, 111, 4669-4677.	1.2	222
5	Effect of Cation Symmetry and Alkyl Chain Length on the Structure and Intermolecular Dynamics of 1,3-Dialkylimidazolium Bis(trifluoromethanesulfonyl)amide Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 6426-6433.	1.2	201
6	Intermolecular Dynamics of Room-Temperature Ionic Liquids: Femtosecond Optical Kerr Effect Measurements on 1-Alkyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)imides. <i>Journal of Physical Chemistry A</i> , 2002, 106, 7579-7585.	1.1	186
7	Effect of Cation Symmetry on the Morphology and Physicochemical Properties of Imidazolium Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2011, 115, 6572-6584.	1.2	169
8	Additivity in the Optical Kerr Effect Spectra of Binary Ionic Liquid Mixtures: Implications for Nanostructural Organization. <i>Journal of Physical Chemistry B</i> , 2006, 110, 16174-16178.	1.2	158
9	Nanostructural Organization and Anion Effects in the Optical Kerr Effect Spectra of Binary Ionic Liquid Mixtures. <i>Journal of Physical Chemistry B</i> , 2008, 112, 13316-13325.	1.2	145
10	Temperature-dependence of the low-frequency spectrum of 1-pentyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide studied by optical Kerr effect spectroscopy. <i>Chemical Physics Letters</i> , 2004, 393, 372-377.	1.2	96
11	Effect of Alkyl Chain Branching on Physicochemical Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Chemical & Engineering Data</i> , 2016, 61, 1078-1091.	1.0	84
12	Nanostructural Organization in Acetonitrile/Ionic Liquid Mixtures: Molecular Dynamics Simulations and Optical Kerr Effect Spectroscopy. <i>ChemPhysChem</i> , 2012, 13, 1687-1700.	1.0	78
13	Intermolecular Vibrational Motions of Solute Molecules Confined in Nonpolar Domains of Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2009, 113, 4544-4548.	1.2	70
14	Excited-state dynamics of polymer-bound J-aggregates. <i>The Journal of Physical Chemistry</i> , 1993, 97, 12408-12415.	2.9	67
15	Structure and Intermolecular Dynamics of Liquids: Femtosecond Optical Kerr Effect Measurements in Nonpolar Fluorinated Benzenes. <i>Journal of Physical Chemistry A</i> , 1997, 101, 2936-2945.	1.1	66
16	Thermophysical Properties of Imidazolium-Based Ionic Liquids: The Effect of Aliphatic versus Aromatic Functionality. <i>Journal of Chemical & Engineering Data</i> , 2014, 59, 2717-2724.	1.0	61
17	Dynamical solvation effects on the cis-trans isomerization reaction: photoisomerization of merocyanine 540 in polar solvents. <i>The Journal of Physical Chemistry</i> , 1993, 97, 2344-2354.	2.9	60
18	Reorientational and intermolecular dynamics in binary liquid mixtures of hexafluorobenzene and benzene: femtosecond optical Kerr effect measurements. <i>Chemical Physics Letters</i> , 1997, 265, 283-292.	1.2	60

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19	Molecular Topology and Local Dynamics Govern the Viscosity of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2015, 119, 14934-14944.	1.2	54
20	Effect of cation symmetry on the low-frequency spectra of imidazolium ionic liquids: OKE and Raman spectroscopic measurements and DFT calculations. <i>Chemical Physics Letters</i> , 2010, 497, 37-42.	1.2	52
21	Picosecond reorientational dynamics of resorufin: correlations of dynamics and liquid structure. <i>The Journal of Physical Chemistry</i> , 1985, 89, 3238-3243.	2.9	51
22	Direct exfoliation of graphene in ionic liquids with aromatic groups. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2014, 463, 63-69.	2.3	51
23	Nanostructural organization in carbon disulfide/ionic liquid mixtures: Molecular dynamics simulations and optical Kerr effect spectroscopy. <i>Journal of Chemical Physics</i> , 2011, 135, 034502.	1.2	49
24	Femtosecond Optical Kerr Effect Studies of Liquid Methyl Iodide. <i>The Journal of Physical Chemistry</i> , 1996, 100, 10005-10014.	2.9	41
25	Enhanced translational diffusion of rubrene in sucrose benzoate. <i>Journal of Chemical Physics</i> , 2006, 124, 014510.	1.2	40
26	Ionic liquids at the surface of graphite: Wettability and structure. <i>Journal of Chemical Physics</i> , 2018, 148, 193840.	1.2	37
27	Effect of solvent on nonradiative processes in xanthene dyes: pyronin B in alcohols and alcohol-water mixtures. <i>The Journal of Physical Chemistry</i> , 1992, 96, 7996-8001.	2.9	36
28	Effect of Temperature and Viscosity on Rotational Diffusion of Merocyanine 540 in Polar Solvents. <i>The Journal of Physical Chemistry</i> , 1994, 98, 13083-13092.	2.9	36
29	Fragility of ionic liquids measured by Flash differential scanning calorimetry. <i>Thermochimica Acta</i> , 2017, 654, 121-129.	1.2	36
30	Microstructure and Porosity of Silica Xerogel Monoliths Prepared by the Fast Sol-Gel Method. <i>Journal of Sol-Gel Science and Technology</i> , 2000, 17, 211-217.	1.1	34
31	The Stokes-Einstein equation and the diffusion of ferrocene in imidazolium-based ionic liquids studied by cyclic voltammetry: Effects of cation ion symmetry and alkyl chain length. <i>Electrochimica Acta</i> , 2018, 259, 245-252.	2.6	31
32	Picosecond spectroscopic studies of electronic energy relaxation in H-aggregates of 1,1'-diethyl-2,2'-dicarbocyanine on colloidal silica. <i>The Journal of Physical Chemistry</i> , 1989, 93, 3683-3688.	2.9	30
33	Temperature-dependent resonance Raman study of iodine-doped poly(vinyl alcohol) films. <i>Chemical Physics Letters</i> , 1996, 263, 25-32.	1.2	30
34	Translational diffusion in sucrose benzoate near the glass transition: Probe size dependence in the breakdown of the Stokes-Einstein equation. <i>Journal of Chemical Physics</i> , 2007, 126, 224506.	1.2	30
35	Local structure and intermolecular dynamics of an equimolar benzene and 1,3-dimethylimidazolium bis[(trifluoromethane)sulfonyl]amide mixture: Molecular dynamics simulations and OKE spectroscopic measurements. <i>Journal of Chemical Physics</i> , 2014, 141, 044506.	1.2	30
36	Intermolecular Spectrum of Liquid Biphenyl Studied by Optical Kerr Effect Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2004, 108, 10107-10115.	1.1	28

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37	Low-frequency spectrum of homeotropically aligned liquid crystals: optical heterodyne-detected Raman-induced Kerr effect spectroscopy of 4-octyl-4'-cyanobiphenyl. <i>Chemical Physics Letters</i> , 2003, 370, 725-732.	1.2	27
38	An OHD-RIKES and simulation study comparing a benzylmethylimidazolium ionic liquid with an equimolar mixture of dimethylimidazolium and benzene. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 9973-9983.	1.3	26
39	Effect of High Pressure on Vibrational Modes of Polyiodides in Poly(vinyl alcohol) Films. <i>Journal of Physical Chemistry B</i> , 1997, 101, 11092-11098.	1.2	25
40	Visible Absorption Spectroscopy and Structure of Cyanine Dimers in Aqueous Solution: An Experiment for Physical Chemistry. <i>Journal of Chemical Education</i> , 2000, 77, 637.	1.1	25
41	Effect of solvent polarity on non-radiative processes in xanthene dyes: the acid form of rhodamine B in nitrile solvents. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 1992, 64, 307-314.	2.0	24
42	Substituent effects on cellulose dissolution in imidazolium-based ionic liquids. <i>Cellulose</i> , 2018, 25, 6887-6900.	2.4	24
43	Picosecond pump-probe spectroscopy of dyes on surfaces: electronic energy relaxation in aggregates of pseudoisocyanine on colloidal silica. <i>The Journal of Physical Chemistry</i> , 1988, 92, 256-260.	2.9	22
44	Probing the interplay between electrostatic and dispersion interactions in the solvation of nonpolar nonaromatic solute molecules in ionic liquids: An OKE spectroscopic study of CS ₂ /[CnC1im][NTf ₂] mixtures (n = 1-4). <i>Journal of Chemical Physics</i> , 2014, 140, 164512.	1.2	22
45	Dissolution of cotton cellulose in 1:1 mixtures of 1-butyl-3-methylimidazolium methylphosphonate and 1-alkylimidazole co-solvents. <i>Carbohydrate Polymers</i> , 2019, 221, 63-72.	5.1	20
46	Temperature Dependence of Volumetric and Dynamic Properties of Imidazolium-Based Ionic Liquids. <i>Journal of Physical Chemistry B</i> , 2018, 122, 2414-2424.	1.2	19
47	Picosecond ground-state rotational diffusion of merocyanine 540 in polar solvents. <i>The Journal of Physical Chemistry</i> , 1990, 94, 5684-5688.	2.9	18
48	Electron attachment to hydrogen halide clusters. <i>The Journal of Physical Chemistry</i> , 1983, 87, 2076-2079.	2.9	17
49	Electron attachment to carbon dioxide clusters by collisional charge transfer. <i>The Journal of Physical Chemistry</i> , 1989, 93, 1136-1139.	2.9	17
50	Multiple modulation spectroscopy at radiofrequencies for picosecond laser spectroscopy. <i>Applied Optics</i> , 1985, 24, 318.	2.1	14
51	Picosecond polarized spectroscopy of J-aggregates of pseudoisocyanine on colloidal silica. <i>The Journal of Physical Chemistry</i> , 1989, 93, 6198-6201.	2.9	14
52	Solubility of n-butane and 2-methylpropane (isobutane) in 1-alkyl-3-methylimidazolium-based ionic liquids with linear and branched alkyl side-chains. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 30328-30342.	1.3	14
53	Dynamics of merocyanine 540 in model biomembranes: photoisomerization studies in small unilamellar vesicles. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1994, 1192, 27-34.	1.4	13
54	Electrospinning 3D Nanofiber Structure of Polycaprolactone Incorporated with Silver Nanoparticles. <i>Jom</i> , 2019, 71, 956-962.	0.9	12

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55	Photoreduction of methylene blue on cadmium sulfide powder. <i>Chemical Physics Letters</i> , 2000, 319, 138-144.	1.2	11
56	Optical Kerr effect spectroscopy of CS ₂ in monocationic and dicationic ionic liquids: insights into the intermolecular interactions in ionic liquids. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 26558-26569.	1.3	11
57	Intermolecular spectrum of 4-octyl-4'-cyanobiphenyl in n-heptane: OHD-RIKES measurements. <i>Chemical Physics Letters</i> , 2003, 373, 526-531.	1.2	10
58	Comparative OHD-RIKES Study of the Low-Frequency (0-250 cm ⁻¹) Vibrational Dynamics of Dibenzyl- and Monobenzyl-Substituted Imidazolium Ionic Liquids and Benzene/Dimethylimidazolium Mixtures. <i>ACS Sustainable Chemistry and Engineering</i> , 2016, 4, 514-524.	3.2	10
59	Friction and wear of Pd-rich amorphous alloy (Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀) under dry and ionic liquid (IL) lubricated conditions. <i>Wear</i> , 2018, 408-409, 190-199.	1.5	10
60	Characterization of cellulose nanocrystals by current spectroscopic techniques. <i>Applied Spectroscopy Reviews</i> , 2023, 58, 180-205.	3.4	10
61	Universality in Isomerization Reactions in Polar Solvents. <i>The Journal of Physical Chemistry</i> , 1996, 100, 11907-11913.	2.9	9
62	Heterogeneous dynamics in ionic liquids at the glass transition: Fluorescence recovery after photobleaching measurements of probe rotational motion from T _g + 6 K to T _g + 4 K. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 324-332.	1.5	8
63	The importance of polarizability: comparison of models of carbon disulphide in the ionic liquids [C ₁ C ₁ im][NTf ₂] and [C ₄ C ₁ im][NTf ₂]. <i>Physical Chemistry Chemical Physics</i> , 2016, 18, 16535-16543.	1.3	8
64	A simulation study of CS ₂ solutions in two related ionic liquids with dications and monocations. <i>Journal of Chemical Physics</i> , 2018, 148, 193844.	1.2	8
65	Electron attachment to volatile uranyl molecules. <i>The Journal of Physical Chemistry</i> , 1982, 86, 617-621.	2.9	6
66	Friction and Wear of Pd-Rich Amorphous Alloy (Pd ₄₃ Cu ₂₇ Ni ₁₀ P ₂₀) with Ionic Liquid (IL) as Lubricant at High Temperatures. <i>Metals</i> , 2019, 9, 1180.	1.0	5
67	Kinetic Study of Curing Bisphenol A Dicyanate Ester with Ionic Liquid Additive. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019, 57, 1315-1324.	2.4	5
68	Picosecond rotational reorientation of cresyl violet in polymer solution. <i>Chemical Physics Letters</i> , 1986, 132, 77-82.	1.2	4
69	Autoregressive vibrational-dephasing analysis of the $\hat{1}/2$ band of liquid methyl iodide in nanoporous glass. <i>Chemical Physics Letters</i> , 1999, 314, 459-464.	1.2	4
70	OKE Spectroscopy and Molecular Dynamics Simulations of Nonpolar and Polar Molecules in Ionic Liquids. <i>ACS Symposium Series</i> , 2012, , 271-287.	0.5	4
71	Comparative study of the intermolecular dynamics of imidazolium-based ionic liquids with linear and branched alkyl chains: OHD-RIKES measurements. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 4661-4672.	1.3	4
72	Ultrafast laser spectroscopy: A probe of the photodynamics of chemical intermediates. <i>Reviews of Chemical Intermediates</i> , 1985, 6, 197-235.	1.1	3

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73	Role Of Torsional Dynamics In The Photophysics Of Xanthene Dyes. , 1988, , .		3
74	Synchronization of a picosecond mode-locked dye laser oscillator amplifier with a streak camera system. Review of Scientific Instruments, 1984, 55, 1265-1269.	0.6	2
75	Relaxation of the methylene blue monomer dimer equilibrium in supercooled glycerol near the glass transition. Chemical Physics Letters, 2003, 378, 135-141.	1.2	2
76	Picosecond polarized pump-probe spectroscopy of amylose-iodine. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 90, 45-51.	2.0	1
77	Orientational and low-frequency ($0 \leq \omega \leq 1$) dynamics of methyl methacrylate: OHD-RIKES measurements and DFT calculations. Journal of Molecular Liquids, 2021, 323, 115004.	2.3	1
78	Picosecond pump-probe studies of energy relaxation in aggregates of pseudoisocyanine adsorbed on colloidal silica. AIP Conference Proceedings, 1988, , .	0.3	0
79	Excitation intensity and polarization effects in the picosecond spectroscopy of molecular aggregates. , 1990, , .		0