

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	Characterization of cellulose nanocrystals by current spectroscopic techniques. Applied Spectroscopy Reviews, 2023, 58, 180-205.	3.4	10
2	Orientalional and low-frequency ($0\hat{e}^{\text{c}}450\hat{A}cm\hat{a}^{\sim}1$) dynamics of methyl methacrylate: OHD-RIKES measurements and DFT calculations. Journal of Molecular Liquids, 2021, 323, 115004.	2.3	1
3	Friction and Wear of Pd-Rich Amorphous Alloy (Pd43Cu27Ni10P20) with Ionic Liquid (IL) as Lubricant at High Temperatures. Metals, 2019, 9, 1180.	1.0	5
4	Kinetic Study of Curing Bisphenol A Dicyanate Ester with Ionic Liquid Additive. Journal of Polymer Science, Part B: Polymer Physics, 2019, 57, 1315-1324.	2.4	5
5	Dissolution of cotton cellulose in 1:1 mixtures of 1-butyl-3-methylimidazolium methylphosphonate and 1-alkylimidazole co-solvents. Carbohydrate Polymers, 2019, 221, 63-72.	5.1	20
6	Electrospinning 3D Nanofiber Structure of Polycaprolactone Incorporated with Silver Nanoparticles. Jom, 2019, 71, 956-962.	0.9	12
7	Temperature Dependence of Volumetric and Dynamic Properties of Imidazolium-Based Ionic Liquids. Journal of Physical Chemistry B, 2018, 122, 2414-2424.	1.2	19
8	A simulation study of CS ₂ solutions in two related ionic liquids with dications and monocations. Journal of Chemical Physics, 2018, 148, 193844.	1.2	8
9	Ionic liquids at the surface of graphite: Wettability and structure. Journal of Chemical Physics, 2018, 148, 193840.	1.2	37
10	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. Electrochimica Acta, 2018, 259, 245-252.	2.6	31
11	Optical Kerr effect spectroscopy of CS ₂ in monocationic and dicationic ionic liquids: insights into the intermolecular interactions in ionic liquids. Physical Chemistry Chemical Physics, 2018, 20, 26558-26569.	1.3	11
12	Substituent effects on cellulose dissolution in imidazolium-based ionic liquids. Cellulose, 2018, 25, 6887-6900.	2.4	24
13	Friction and wear of Pd-rich amorphous alloy (Pd43Cu27Ni10P20) under dry and ionic liquid (IL) lubricated conditions. Wear, 2018, 408-409, 190-199.	1.5	10
14	Comparative study of the intermolecular dynamics of imidazolium-based ionic liquids with linear and branched alkyl chains: OHD-RIKES measurements. Physical Chemistry Chemical Physics, 2017, 19, 4661-4672.	1.3	4
15	Fragility of ionic liquids measured by Flash differential scanning calorimetry. Thermochemica Acta, 2017, 654, 121-129.	1.2	36
16	The importance of polarizability: comparison of models of carbon disulphide in the ionic liquids [C1C1im][NTf2] and [C4C1im][NTf2]. Physical Chemistry Chemical Physics, 2016, 18, 16535-16543.	1.3	8
17	Comparative OHD-RIKES Study of the Low-Frequency ($0\hat{e}^{\text{c}}250\text{ cm}^{\text{sup}}\hat{a}^{\text{c}}1^{\text{sup}}$) Vibrational Dynamics of Dibenzyl- and Monobenzyl-Substituted Imidazolium Ionic Liquids and Benzene/Dimethylimidazolium Mixtures. ACS Sustainable Chemistry and Engineering, 2016, 4, 514-524.	3.2	10
18	Effect of Alkyl Chain Branching on Physicochemical Properties of Imidazolium-Based Ionic Liquids. Journal of Chemical & Engineering Data, 2016, 61, 1078-1091.	1.0	84

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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	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
21	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
22	Heterogeneous dynamics in ionic liquids at the glass transition: Fluorescence recovery after photobleaching measurements of probe rotational motion from $T_g \approx 6$ K to $T_g + 4$ K. <i>Journal of Non-Crystalline Solids</i> , 2015, 407, 324-332.	1.5	8
23	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
24	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 /[CnClim][NTf ₂] mixtures (n = 1-4). <i>Journal of Chemical Physics</i> , 2014, 140, 164512.	1.2	22
25	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
26	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
27	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
28	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
29	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
30	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
31	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
32	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
33	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
34	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
35	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
36	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

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37	Nanostructural Organization and Anion Effects on the Temperature Dependence of the Optical Kerr Effect Spectra of Ionic Liquids. Journal of Physical Chemistry B, 2007, 111, 4669-4677.	1.2	222
38	Additivity in the Optical Kerr Effect Spectra of Binary Ionic Liquid Mixtures: Implications for Nanostructural Organization. Journal of Physical Chemistry B, 2006, 110, 16174-16178.	1.2	158
39	Enhanced translational diffusion of rubrene in sucrose benzoate. Journal of Chemical Physics, 2006, 124, 014510.	1.2	40
40	Temperature-dependence of the low-frequency spectrum of 1-pentyl-3-methylimidazolium bis(trifluoromethanesulfonyl)imide studied by optical Kerr effect spectroscopy. Chemical Physics Letters, 2004, 393, 372-377.	1.2	96
41	Intermolecular Spectrum of Liquid Biphenyl Studied by Optical Kerr Effect Spectroscopy. Journal of Physical Chemistry A, 2004, 108, 10107-10115.	1.1	28
42	Low-frequency spectrum of homeotropically aligned liquid crystals: optical heterodyne-detected Raman-induced Kerr effect spectroscopy of 4-octyl-4'-cyanobiphenyl. Chemical Physics Letters, 2003, 370, 725-732.	1.2	27
43	Intermolecular spectrum of 4-octyl-4'-cyanobiphenyl in n-heptane: OHD-RIKES measurements. Chemical Physics Letters, 2003, 373, 526-531.	1.2	10
44	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
45	Intermolecular Dynamics of Room-Temperature Ionic Liquids: Femtosecond Optical Kerr Effect Measurements on 1-Alkyl-3-methylimidazolium Bis((trifluoromethyl)sulfonyl)imides. Journal of Physical Chemistry A, 2002, 106, 7579-7585.	1.1	186
46	Photoreduction of methylene blue on cadmium sulfide powder. Chemical Physics Letters, 2000, 319, 138-144.	1.2	11
47	Microstructure and Porosity of Silica Xerogel Monoliths Prepared by the Fast Sol-Gel Method. Journal of Sol-Gel Science and Technology, 2000, 17, 211-217.	1.1	34
48	Visible Absorption Spectroscopy and Structure of Cyanine Dimers in Aqueous Solution: An Experiment for Physical Chemistry. Journal of Chemical Education, 2000, 77, 637.	1.1	25
49	Autoregressive vibrational-dephasing analysis of the $\hat{1}/2$ band of liquid methyl iodide in nanoporous glass. Chemical Physics Letters, 1999, 314, 459-464.	1.2	4
50	Effect of High Pressure on Vibrational Modes of Polyiodides in Poly(vinyl alcohol) Films. Journal of Physical Chemistry B, 1997, 101, 11092-11098.	1.2	25
51	Structure and Intermolecular Dynamics of Liquids: Femtosecond Optical Kerr Effect Measurements in Nonpolar Fluorinated Benzenes. Journal of Physical Chemistry A, 1997, 101, 2936-2945.	1.1	66
52	Reorientational and intermolecular dynamics in binary liquid mixtures of hexafluorobenzene and benzene: femtosecond optical Kerr effect measurements. Chemical Physics Letters, 1997, 265, 283-292.	1.2	60
53	Temperature-dependent resonance Raman study of iodine-doped poly(vinyl alcohol) films. Chemical Physics Letters, 1996, 263, 25-32.	1.2	30
54	Universality in Isomerization Reactions in Polar Solvents. The Journal of Physical Chemistry, 1996, 100, 11907-11913.	2.9	9

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55	Femtosecond Optical Kerr Effect Studies of Liquid Methyl Iodide. The Journal of Physical Chemistry, 1996, 100, 10005-10014.	2.9	41
56	Picosecond polarized pump-probe spectroscopy of amylose-iodine. Journal of Photochemistry and Photobiology A: Chemistry, 1995, 90, 45-51.	2.0	1
57	Effect of Temperature and Viscosity on Rotational Diffusion of Merocyanine 540 in Polar Solvents. The Journal of Physical Chemistry, 1994, 98, 13083-13092.	2.9	36
58	Dynamics of merocyanine 540 in model biomembranes: photoisomerization studies in small unilamellar vesicles. Biochimica Et Biophysica Acta - Biomembranes, 1994, 1192, 27-34.	1.4	13
59	Excited-state dynamics of polymer-bound J-aggregates. The Journal of Physical Chemistry, 1993, 97, 12408-12415.	2.9	67
60	Dynamics of ionic lipophilic probes in micelles: picosecond fluorescence depolarization measurements. The Journal of Physical Chemistry, 1993, 97, 5762-5769.	2.9	229
61	Dynamical solvation effects on the cis-trans isomerization reaction: photoisomerization of merocyanine 540 in polar solvents. The Journal of Physical Chemistry, 1993, 97, 2344-2354.	2.9	60
62	Effect of solvent on nonradiative processes in xanthene dyes: pyronin B in alcohols and alcohol-water mixtures. The Journal of Physical Chemistry, 1992, 96, 7996-8001.	2.9	36
63	Effect of solvent polarity on non-radiative processes in xanthene dyes: the acid form of rhodamine B in nitrile solvents. Journal of Photochemistry and Photobiology A: Chemistry, 1992, 64, 307-314.	2.0	24
64	Excitation intensity and polarization effects in the picosecond spectroscopy of molecular aggregates. , 1990, , .		0
65	Picosecond ground-state rotational diffusion of merocyanine 540 in polar solvents. The Journal of Physical Chemistry, 1990, 94, 5684-5688.	2.9	18
66	Picosecond spectroscopic studies of electronic energy relaxation in H-aggregates of 1,1'-diethyl-2,2'-dicarbocyanine on colloidal silica. The Journal of Physical Chemistry, 1989, 93, 3683-3688.	2.9	30
67	Picosecond polarized spectroscopy of J-aggregates of pseudoisocyanine on colloidal silica. The Journal of Physical Chemistry, 1989, 93, 6198-6201.	2.9	14
68	Electron attachment to carbon dioxide clusters by collisional charge transfer. The Journal of Physical Chemistry, 1989, 93, 1136-1139.	2.9	17
69	Effect of solvent polarity on nonradiative processes in xanthene dyes: Rhodamine B in normal alcohols. The Journal of Physical Chemistry, 1988, 92, 6590-6594.	2.9	241
70	Picosecond pump-probe spectroscopy of dyes on surfaces: electronic energy relaxation in aggregates of pseudoisocyanine on colloidal silica. The Journal of Physical Chemistry, 1988, 92, 256-260.	2.9	22
71	Role Of Torsional Dynamics In The Photophysics Of Xanthene Dyes. , 1988, , .		3
72	Picosecond pump-probe studies of energy relaxation in aggregates of pseudoisocyanine adsorbed on colloidal silica. AIP Conference Proceedings, 1988, , .	0.3	0

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73	Picosecond rotational reorientation of cresyl violet in polymer solution. Chemical Physics Letters, 1986, 132, 77-82.	1.2	4
74	Picosecond reorientational dynamics of resorufin: correlations of dynamics and liquid structure. The Journal of Physical Chemistry, 1985, 89, 3238-3243.	2.9	51
75	Ultrafast laser spectroscopy: A probe of the photodynamics of chemical intermediates. Reviews of Chemical Intermediates, 1985, 6, 197-235.	1.1	3
76	Multiple modulation spectroscopy at radiofrequencies for picosecond laser spectroscopy. Applied Optics, 1985, 24, 318.	2.1	14
77	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
78	Electron attachment to hydrogen halide clusters. The Journal of Physical Chemistry, 1983, 87, 2076-2079.	2.9	17
79	Electron attachment to volatile uranyl molecules. The Journal of Physical Chemistry, 1982, 86, 617-621.	2.9	6