

Edward L Quitevis

List of Publications by Year in descending order

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79
papers

3,620
citations

168829

31
h-index

145109

60
g-index

85
all docs

85
docs citations

85
times ranked

3416
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. <i>Chemical Physics Letters</i> , 1986, 132, 77-82. | 1.2 | 4 |
| 74 | 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 |
| 75 | Ultrafast laser spectroscopy: A probe of the photodynamics of chemical intermediates. <i>Reviews of Chemical Intermediates</i> , 1985, 6, 197-235. | 1.1 | 3 |
| 76 | Multiple modulation spectroscopy at radiofrequencies for picosecond laser spectroscopy. <i>Applied Optics</i> , 1985, 24, 318. | 2.1 | 14 |
| 77 | Synchronization of a picosecond mode-locked dye laser oscillator amplifier with a streak camera system. <i>Review of Scientific Instruments</i> , 1984, 55, 1265-1269. | 0.6 | 2 |
| 78 | Electron attachment to hydrogen halide clusters. <i>The Journal of Physical Chemistry</i> , 1983, 87, 2076-2079. | 2.9 | 17 |
| 79 | Electron attachment to volatile uranyl molecules. <i>The Journal of Physical Chemistry</i> , 1982, 86, 617-621. | 2.9 | 6 |