

# Omar A El Seoud

## List of Publications by Year in descending order

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167  
papers

5,714  
citations

71102

41  
h-index

102487

66  
g-index

173  
all docs

173  
docs citations

173  
times ranked

4325  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Applications of Ionic Liquids in Carbohydrate Chemistry: A Window of Opportunities. <i>Biomacromolecules</i> , 2007, 8, 2629-2647.  | 5.4  | 615       |
| 2  | Synthesis and micellar properties of surface-active ionic liquids: 1-Alkyl-3-methylimidazolium chlorides. <i>Journal of Colloid and Interface Science</i> , 2007, 313, 296-304.   | 9.4  | 269       |
| 3  | Micellar properties of surface active ionic liquids: A comparison of 1-hexadecyl-3-methylimidazolium chloride with structurally related cationic surfactants. <i>Journal of Colloid and Interface Science</i> , 2010, 345, 1-11.        | 9.4  | 142       |
| 4  | Tailored Media for Homogeneous Cellulose Chemistry: Ionic Liquid/Co-Solvent Mixtures. <i>Macromolecular Materials and Engineering</i> , 2011, 296, 483-493.   | 3.6  | 136       |
| 5  | An efficient, one-pot acylation of cellulose under homogeneous reaction conditions. <i>Macromolecular Chemistry and Physics</i> , 2000, 201, 882-889.   | 2.2  | 126       |
| 6  | Twenty-five years of cellulose chemistry: innovations in the dissolution of the biopolymer and its transformation into esters and ethers. <i>Cellulose</i> , 2019, 26, 139-184.   | 4.9  | 107       |
| 7  | Surface active ionic liquids: Study of the micellar properties of 1-(1-alkyl)-3-methylimidazolium chlorides and comparison with structurally related surfactants. <i>Journal of Colloid and Interface Science</i> , 2011, 361, 186-194. | 9.4  | 102       |
| 8  | Solvatochromism in pure and binary solvent mixtures: effects of the molecular structure of the zwitterionic probe. <i>Journal of Physical Organic Chemistry</i> , 2000, 13, 679-687.  | 1.9  | 97        |
| 9  | Effects of organized surfactant assemblies on acid-base equilibria. <i>Advances in Colloid and Interface Science</i> , 1989, 30, 1-30.  | 14.7 | 94        |
| 10 | Cellulose Swelling by Aprotic and Protic Solvents: What are the Similarities and Differences?. <i>Macromolecular Chemistry and Physics</i> , 2008, 209, 1240-1254.  | 2.2  | 87        |
| 11 | Understanding solvation. <i>Pure and Applied Chemistry</i> , 2009, 81, 697-707.   | 1.9  | 86        |
| 12 | Influence of the Supramolecular Structure and Physicochemical Properties of Cellulose on Its Dissolution in a Lithium Chloride/N,N-Dimethylacetamide Solvent System. <i>Biomacromolecules</i> , 2005, 6, 2638-2647.                     | 5.4  | 84        |
| 13 | Thermodynamics of Micellization of Benzyl(2-acylaminoethyl)dimethylammonium Chloride Surfactants in Aqueous Solutions: A Conductivity and Titration Calorimetry Study. <i>Langmuir</i> , 2004, 20, 9551-9559.                           | 3.5  | 74        |
| 14 | Organic Esters of Cellulose: New Perspectives for Old Polymers. <i>Advances in Polymer Science</i> , 2005, , 103-149.   | 0.8  | 72        |
| 15 | Solvatochromism in Cationic Micellar Solutions: Effects of the Molecular Structures of the Solvatochromic Probe and the Surfactant Headgroup. <i>Langmuir</i> , 2001, 17, 652-658.  | 3.5  | 71        |
| 16 | Microscopic Polarities of Interfacial Regions of Aqueous Cationic Micelles: Effects of Structures of the Solvatochromic Probe and the Surfactant. <i>Langmuir</i> , 2000, 16, 35-41.  | 3.5  | 69        |
| 17 | Cellulose swelling by protic solvents: which properties of the biopolymer and the solvent matter?. <i>Cellulose</i> , 2008, 15, 371-392.  | 4.9  | 67        |
| 18 | Solvation in pure and mixed solvents: Some recent developments. <i>Pure and Applied Chemistry</i> , 2007, 79, 1135-1151.  | 1.9  | 65        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | Some aspects of acylation of cellulose under homogeneous solution conditions. <i>Journal of Polymer Science Part A</i> , 1999, 37, 1357-1363.   | 2.3 | 62        |
| 20 | Ionic Liquid-Based Surfactants: Recent Advances in Their Syntheses, Solution Properties, and Applications. <i>Polymers</i> , 2021, 13, 1100.  | 4.5 | 61        |
| 21 | Acid-base indicator equilibria in the presence of aerosol-OT aggregates in heptane. Ion exchange in reversed micelles. <i>Journal of Colloid and Interface Science</i> , 1982, 88, 420-427.   | 9.4 | 59        |
| 22 | Solvatochromism in aqueous micellar solutions: effects of the molecular structures of solvatochromic probes and cationic surfactants. <i>Physical Chemistry Chemical Physics</i> , 1999, 1, 1957-1964.  | 2.8 | 59        |
| 23 | Fluorescence and Light-Scattering Studies of the Aggregation of Cationic Surfactants in Aqueous Solution: Effects of Headgroup Structure. <i>Langmuir</i> , 2000, 16, 3119-3123.  | 3.5 | 59        |
| 24 | Solvatochromism in Pure Solvents: Effects of the Molecular Structure of the Probe. <i>Zeitschrift Fur Elektrochemie Und Elektrochemie</i> , 1996, 100, 648-655.   | 0.9 | 58        |
| 25 | Microwave-assisted derivatization of cellulose in an ionic liquid: An efficient, expedient synthesis of simple and mixed carboxylic esters. <i>Journal of Polymer Science Part A</i> , 2010, 48, 134-143.   | 2.3 | 58        |
| 26 | A novel, efficient procedure for acylation of cellulose under homogeneous solution conditions. <i>Journal of Applied Polymer Science</i> , 1999, 74, 1355-1360.   | 2.6 | 57        |
| 27 | Use of NMR to probe the structure of water at interfaces of organized assemblies. <i>Journal of Molecular Liquids</i> , 1997, 72, 85-103.   | 4.9 | 56        |
| 28 | FTIR and <sup>1</sup> H NMR Studies of the Solubilization of Pure and Aqueous 1,2-Ethanediol in the Reverse Aggregates of Aerosol-OT. <i>Langmuir</i> , 2000, 16, 5573-5578.  | 3.5 | 56        |
| 29 | Chemistry and Applications of Polysaccharide Solutions in Strong Electrolytes/Dipolar Aprotic Solvents: An Overview. <i>Molecules</i> , 2013, 18, 1270-1313.  | 3.8 | 56        |
| 30 | Recent Advances in Solvents for the Dissolution, Shaping and Derivatization of Cellulose: Quaternary Ammonium Electrolytes and their Solutions in Water and Molecular Solvents. <i>Molecules</i> , 2018, 23, 511.                                     | 3.8 | 56        |
| 31 | Sugar-Based Surfactants: Adsorption and Micelle Formation of Sodium Methyl 2-Acylamido-2-deoxy-6-O-sulfo-D-glucopyranosides. <i>Langmuir</i> , 2002, 18, 4362-4366.   | 3.5 | 52        |
| 32 | First Study on the Thermo-Solvatochromism in Aqueous 1-(1-Butyl)-3-methylimidazolium Tetrafluoroborate: A Comparison between the Solvation by an Ionic Liquid and by Aqueous Alcohols. <i>Journal of Physical Chemistry B</i> , 2008, 112, 8330-8339. | 2.6 | 49        |
| 33 | Real Structure of Formamide Entrapped by AOT Nonaqueous Reverse Micelles: FT-IR and <sup>1</sup> H NMR Studies. <i>Journal of Physical Chemistry B</i> , 2005, 109, 21209-21219.  | 2.6 | 48        |
| 34 | Thermosolvatochromism of Merocyanine Polarity Indicators in Pure and Aqueous Solvents: Relevance of Solvent Lipophilicity. <i>Journal of Organic Chemistry</i> , 2006, 71, 9068-9079.   | 3.2 | 48        |
| 35 | Drug-Induced Micelle-Vesicle Transition of a Cationic Gemini Surfactant: Potential Applications in Drug Delivery. <i>ChemPhysChem</i> , 2018, 19, 865-872.  | 2.1 | 47        |
| 36 | Acetylation of cellulose in LiCl-N,N-dimethylacetamide: first report on the correlation between the reaction efficiency and the aggregation number of dissolved cellulose. <i>Cellulose</i> , 2011, 18, 385-392.                                      | 4.9 | 46        |

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|----|---|-----|-----------|
| 37 | Cellulose Regeneration and Chemical Recycling: Closing the "Cellulose Gap" Using Environmentally Benign Solvents. <i>Macromolecular Materials and Engineering</i> , 2020, 305, 1900832.   | 3.6 | 46        |
| 38 | Synthesis and Aggregation of Benzyl(2-acylaminoethyl)dimethylammonium Chloride Surfactants. <i>Langmuir</i> , 2003, 19, 238-243.  | 3.5 | 45        |
| 39 | Solvation in Binary Mixtures of Water and Polar Aprotic Solvents: A Theoretical Calculations of the Concentrations of Solvent-Water Hydrogen-Bonded Species and Application to Thermosolvatochromism of Polarity Probes. <i>Journal of Physical Chemistry B</i> , 2007, 111, 6173-6180. | 2.6 | 45        |
| 40 | Thermo-solvatochromism of betaine dyes in aqueous alcohols: explicit consideration of the water-alcohol complex. <i>Journal of Physical Organic Chemistry</i> , 2003, 16, 691-699.  | 1.9 | 44        |
| 41 | Thermo-solvatochromism of Merocyanine Polarity Probes "What Are the Consequences of Increasing Probe Lipophilicity through Annelation?. <i>European Journal of Organic Chemistry</i> , 2008, 2008, 1165-1180.   | 2.4 | 44        |
| 42 | Ionic-liquid-based surfactants with unsaturated head group: synthesis and micellar properties of 1-(n-alkyl)-3-vinylimidazolium bromides. <i>Colloid and Polymer Science</i> , 2015, 293, 3213-3224.  | 2.1 | 43        |
| 43 | Acid-base indicator equilibria in aerosol-OT reversed micelles in heptane. The use of buffers. <i>Journal of Colloid and Interface Science</i> , 1983, 95, 163-171.   | 9.4 | 41        |
| 44 | Kinetics of the pH-independent hydrolysis of 4-nitrophenyl chloroformate in aqueous micellar solutions: effects of the charge and structure of the surfactant. <i>Journal of Physical Organic Chemistry</i> , 1999, 12, 325-332.  | 1.9 | 39        |
| 45 | Drug induced micelle-to-vesicle transition in aqueous solutions of cationic surfactants. <i>RSC Advances</i> , 2017, 7, 3861-3869.  | 3.6 | 39        |
| 46 | Effect of cellulose physical characteristics, especially the water sorption value, on the efficiency of its hydrolysis catalyzed by free or immobilized cellulase. <i>Journal of Biotechnology</i> , 2012, 157, 246-252.  | 3.8 | 38        |
| 47 | Cellulose in Ionic Liquids and Alkaline Solutions: Advances in the Mechanisms of Biopolymer Dissolution and Regeneration. <i>Polymers</i> , 2019, 11, 1917.   | 4.5 | 38        |
| 48 | Application of 1-allyl-3-(1-butyl)imidazolium Chloride in the Synthesis of Cellulose Esters: Properties of the Ionic Liquid, and Comparison with Other Solvents. <i>Macromolecular Bioscience</i> , 2009, 9, 813-821.   | 4.1 | 37        |
| 49 | Cellulose dissolution in lithium chloride/N,N-dimethylacetamide solvent system: Relevance of kinetics of decrystallization to cellulose derivatization under homogeneous solution conditions. <i>Journal of Polymer Science Part A</i> , 1999, 37, 3738-3744.                           | 2.3 | 35        |
| 50 | Solvation in aqueous binary mixtures: consequences of the hydrophobic character of the ionic liquids and the solvatochromic probes. <i>New Journal of Chemistry</i> , 2012, 36, 2353.   | 2.8 | 35        |
| 51 | Efficient Cellulose Solvent: Quaternary Ammonium Chlorides. <i>Macromolecular Rapid Communications</i> , 2013, 34, 1580-1584.   | 3.9 | 35        |
| 52 | Engineering of sustainable biomaterial composites from cellulose and silk fibroin: Fundamentals and applications. <i>International Journal of Biological Macromolecules</i> , 2021, 167, 687-718.   | 7.5 | 35        |
| 53 | Sustainable biomaterials based on cellulose, chitin and chitosan composites - A review. <i>Carbohydrate Polymer Technologies and Applications</i> , 2021, 2, 100079.  | 2.6 | 35        |
| 54 | <sup>1</sup> H and <sup>13</sup> C NMR Study on the Aggregation of (2-Acylaminoethyl)trimethylammonium Chloride Surfactants in D <sub>2</sub> O. <i>Langmuir</i> , 2003, 19, 9645-9652.   | 3.5 | 34        |

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|----|---|------|-----------|
| 55 | Thermo-Switchable de Novo Ionic Liquid-Based Gelators with Dye-Absorbing and Drug-Encapsulating Characteristics. <i>ACS Omega</i> , 2018, 3, 12068-12078.   | 3.5  | 34        |
| 56 | Solubilization of Pure and Aqueous 1,2,3-Propanetriol by Reverse Aggregates of Aerosol <sup>®</sup> OT in Isooctane Probed by FTIR and <sup>1</sup> H NMR Spectroscopy. <i>Langmuir</i> , 2001, 17, 1847-1852.  | 3.5  | 33        |
| 57 | Kinetics of the pH-Independent Hydrolysis of Bis(2,4-dinitrophenyl) Carbonate in Acetonitrile <sup>~</sup> Water Mixtures: <sup>~</sup> Effects of the Structure of the Solvent. <i>Journal of Organic Chemistry</i> , 1997, 62, 5928-5933.   | 3.2  | 31        |
| 58 | Thermodynamics of micellization of cationic surfactants in aqueous solutions: consequences of the presence of the 2-acylaminoethyl moiety in the surfactant head group. <i>Colloid and Polymer Science</i> , 2004, 282, 1026-1032.  | 2.1  | 30        |
| 59 | Thermo-solvatochromism in aqueous alcohols: effects of the molecular structures of the alcohol and the <sup>~</sup> solvatochromic probe. <i>Journal of Physical Organic Chemistry</i> , 2002, 15, 403-412.   | 1.9  | 28        |
| 60 | Thermo-solvatochromism of zwitterionic probes in aqueous aliphatic alcohols and in aqueous 2-alkoxyethanols: relevance to the enthalpies of activation of chemical reactions. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 398-407.                                       | 1.9  | 28        |
| 61 | Proton and carbon-13 NMR study of the aggregation of benzyl(2-acylaminoethyl)dimethylammonium chloride surfactants in D <sub>2</sub> O. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 3489.   | 2.8  | 27        |
| 62 | A novel, convenient, quinoline-based merocyanine dye: probing solvation in pure and mixed solvents and in the interfacial region of an anionic micelle. <i>Journal of Physical Organic Chemistry</i> , 2005, 18, 1072-1085.   | 1.9  | 27        |
| 63 | Thermo-solvatochromism in binary mixtures of water and ionic liquids: on the relative importance of solvophobic interactions. <i>Physical Chemistry Chemical Physics</i> , 2010, 12, 1764.  | 2.8  | 27        |
| 64 | Expedient, accurate methods for the determination of the degree of substitution of cellulose carboxylic esters: Application of UV <sup>~</sup> vis spectroscopy (dye solvatochromism) and FTIR. <i>Carbohydrate Polymers</i> , 2011, 83, 1285-1292.                                   | 10.2 | 27        |
| 65 | First report on the kinetics of the uncatalyzed esterification of cellulose under homogeneous reaction conditions: a rationale for the effect of carboxylic acid anhydride chain-length on the degree of biopolymer substitution. <i>Cellulose</i> , 2012, 19, 199-207.               | 4.9  | 27        |
| 66 | A Proton NMR Study on the Structure of Water at Interfaces of Cationic Micelles. Effects of the Nature of the Surfactant Headgroup. <i>Langmuir</i> , 1994, 10, 653-657.  | 3.5  | 26        |
| 67 | Sugar-based cationic surfactants: Synthesis and aggregation of methyl 2-acylamido-6-trimethylammonio-2,6-dideoxy-d-glucopyranoside chlorides. <i>Journal of Surfactants and Detergents</i> , 2001, 4, 395-400.  | 2.1  | 26        |
| 68 | Thermosolvatochromism of Betaine Dyes Revisited: <sup>~</sup> Theoretical Calculations of the Concentrations of Alcohol <sup>~</sup> Water Hydrogen-bonded Species and Application to Solvation in Aqueous Alcohols. <i>Journal of Physical Chemistry A</i> , 2006, 110, 10287-10295. | 2.5  | 26        |
| 69 | Ionic Liquid-Based Catanionic Coacervates: Novel Microreactors for Membrane-Free Sequestration of Dyes and Curcumin. <i>ACS Omega</i> , 2018, 3, 17751-17761.   | 3.5  | 26        |
| 70 | Binary mixtures of ionic liquids-DMSO as solvents for the dissolution and derivatization of cellulose: Effects of alkyl and alkoxy side chains. <i>Carbohydrate Polymers</i> , 2019, 212, 206-214.  | 10.2 | 26        |
| 71 | Solvatochromism in Alcohol <sup>~</sup> Water Mixtures: Effects of the Molecular Structure of the Probe. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1997, 101, 105-113.  | 0.9  | 25        |
| 72 | Thermo-solvatochromism of zwitterionic probes in aqueous alcohols: effects of the properties of the probe and the alcohol. <i>Physical Chemistry Chemical Physics</i> , 2003, 5, 5378-5385.   | 2.8  | 25        |

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|----|--|------|-----------|
| 73 | Some aspects of acetylation of untreated and mercerized sisal cellulose. Journal of the Brazilian Chemical Society, 2010, 21, 71-77.   | 0.6  | 25        |
| 74 | Microwave-Assisted Derivatization of Cellulose, 2 – The Surprising Effect of the Structure of Ionic Liquids on the Dissolution and Acylation of the Biopolymer. Macromolecular Chemistry and Physics, 2011, 212, 2541-2550.  | 2.2  | 25        |
| 75 | Kinetics and mechanism of imidazole-catalyzed acylation of cellulose in LiCl/N,N-dimethylacetamide. Carbohydrate Polymers, 2013, 92, 997-1005.   | 10.2 | 25        |
| 76 | Solvatochromism in binary solvent mixtures: Effects of the molecular structure of the probe. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 902-909.   | 0.9  | 24        |
| 77 | Solvatochromism in Binary Mixtures: First Report on a Solvation Free Energy Relationship between Solvent Exchange Equilibrium Constants and the Properties of the Medium. Journal of Physical Chemistry B, 2009, 113, 9512-9519.                                       | 2.6  | 23        |
| 78 | Dependence of cellulose dissolution in quaternary ammonium-based ionic liquids/DMSO on the molecular structure of the electrolyte. Carbohydrate Polymers, 2019, 205, 524-532.  | 10.2 | 23        |
| 79 | A Proton and Carbon-13 NMR Study on the State of Water Solubilized by Detergent Aggregates in Organic Solvents. Journal of Colloid and Interface Science, 1994, 163, 87-93.  | 9.4  | 22        |
| 80 | Kinetics of the pH-independent hydrolyses of 4-nitrophenyl chloroformate and 4-nitrophenyl heptafluorobutyrate in water-acetonitrile mixtures: consequences of solvent composition and ester hydrophobicity. Journal of Physical Organic Chemistry, 2006, 19, 793-802. | 1.9  | 22        |
| 81 | Introducing education for sustainable development in the undergraduate laboratory: quantitative analysis of bioethanol fuel and its blends with gasoline by using solvatochromic dyes. Chemistry Education Research and Practice, 2012, 13, 147-153.                   | 2.5  | 22        |
| 82 | Bio-based Films from Linter Cellulose and Its Acetates: Formation and Properties. Materials, 2013, 6, 2410-2435.   | 2.9  | 22        |
| 83 | Imidazole-catalyzed esterification of cellulose in ionic liquid/molecular solvents: A multi-technique approach to probe effects of the medium. Industrial Crops and Products, 2015, 77, 180-189.   | 5.2  | 22        |
| 84 | Kinetics and mechanisms of the reactions of benzoyl derivatives of nucleophiles: dependence of the solvation requirement of the reaction on the structures of the nucleophile and the acyl group. Journal of Physical Organic Chemistry, 2005, 18, 173-182.            | 1.9  | 20        |
| 85 | Probing the dependence of the properties of cellulose acetates and their films on the degree of biopolymer substitution: use of solvatochromic indicators and thermal analysis. Cellulose, 2010, 17, 937-951.  | 4.9  | 20        |
| 86 | Application of Microelectrode Voltammetry to Study the Properties of Surfactant Solutions: Alkyltrimethylammonium Bromides. Journal of Physical Chemistry B, 2010, 114, 857-862.   | 2.6  | 20        |
| 87 | Use of Microdevices To Determine the Diffusion Coefficient of Electrochemically Generated Species: Application to Binary Solvent Mixtures and Micellar Solutions. Journal of Physical Chemistry B, 2007, 111, 12478-12484.   | 2.6  | 19        |
| 88 | Aggregation of cationic surfactants in D <sub>2</sub> O: A proton NMR study on effects of the structure of the headgroup. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1997, 101, 1933-1941.  | 0.9  | 18        |
| 89 | Have Biofuel, Will Travel: A Colorful Experiment and a Different Approach To Teach the Undergraduate Laboratory. Journal of Chemical Education, 2011, 88, 1293-1297.   | 2.3  | 18        |
| 90 | Perichromism: A powerful tool for probing the properties of cellulose and its derivatives. Carbohydrate Polymers, 2013, 93, 129-134.   | 10.2 | 18        |

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|-----|---|------|-----------|
| 91  | $\beta$ -Carotene: A green, inexpensive, and convenient solvatochromic probe for the determination of solvent polarizability. <i>Dyes and Pigments</i> , 2013, 96, 16-24.   | 3.7  | 18        |
| 92  | Acylation of cellulose in a novel solvent system: Solution of dibenzyltrimethylammonium fluoride in DMSO. <i>Carbohydrate Polymers</i> , 2014, 101, 444-450.  | 10.2 | 18        |
| 93  | Temperature-Responsive Low Molecular Weight Ionic Liquid Based Gelator: An Approach to Fabricate an Anti-Cancer Drug-Loaded Hybrid Ionogel. <i>ChemSystemsChem</i> , 2020, 2, e1900053.   | 2.6  | 18        |
| 94  | Proton NMR studies on the structure of water in ionic and nonionic water-in-oil microemulsions. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1996, 100, 1147-1152.   | 0.9  | 17        |
| 95  | Proton NMR Studies on the Structure of Water at Interfaces of Aqueous Micelles. Part 4: Effects of Cationic and Zwitterionic Headgroups. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1995, 99, 1214-1220.   | 0.9  | 16        |
| 96  | Sugar-based anionic surfactants: synthesis and micelle formation of sodium methyl 2-acylamido-2-deoxy-6-O-sulfo-D-glucopyranosides. <i>Carbohydrate Research</i> , 2001, 332, 95-102.   | 2.3  | 16        |
| 97  | Surfactants with an amide group spacer: Synthesis of 3-(acylamino)propyltrimethylammonium chlorides and their aggregation in aqueous solutions. <i>Journal of Colloid and Interface Science</i> , 2006, 304, 474-485.   | 9.4  | 16        |
| 98  | Novel solvents for cellulose: Use of dibenzyltrimethylammonium fluoride/dimethyl sulfoxide (DMSO) as solvent for the etherification of the biopolymer and comparison with tetra(1-butyl)ammonium fluoride/DMSO. <i>Industrial Crops and Products</i> , 2014, 54, 185-191. | 5.2  | 16        |
| 99  | Understanding cellulose dissolution in ionic liquid-dimethyl sulfoxide binary mixtures: Quantification of the relative importance of hydrogen bonding and hydrophobic interactions. <i>Journal of Molecular Liquids</i> , 2021, 322, 114848.                              | 4.9  | 16        |
| 100 | Kinetic Solvent Isotope Effect: A Simple, Multipurpose Physical Chemistry Experiment. <i>Journal of Chemical Education</i> , 1997, 74, 562.   | 2.3  | 15        |
| 101 | Effects of charge and structure of surfactants on kinetics of water reactions: the pH-independent hydrolysis of bis (2,4-dinitrophenyl) carbonate. <i>Journal of Molecular Liquids</i> , 1999, 80, 231-251.   | 4.9  | 15        |
| 102 | Kinetics and mechanism of phosphate-catalyzed hydrolysis of benzoate esters: comparison with nucleophilic catalysis by imidazole and o-iodosobenzoate. <i>Perkin Transactions II RSC</i> , 2002, , 1053-1058.   | 1.1  | 15        |
| 103 | A convenient solvent system for cellulose dissolution and derivatization: Mechanistic aspects of the acylation of the biopolymer in tetraallylammonium fluoride/dimethyl sulfoxide. <i>Carbohydrate Polymers</i> , 2011, 86, 1395-1402.                                   | 10.2 | 15        |
| 104 | Cellulose loading and water sorption value as important parameters for the enzymatic hydrolysis of cellulose. <i>Cellulose</i> , 2013, 20, 1109-1119.   | 4.9  | 15        |
| 105 | Mixed solvents for cellulose derivatization under homogeneous conditions: kinetic, spectroscopic, and theoretical studies on the acetylation of the biopolymer in binary mixtures of an ionic liquid and molecular solvents. <i>Cellulose</i> , 2014, 21, 1193-1204.      | 4.9  | 15        |
| 106 | Probing Cellulose Acetylation in Binary Mixtures of an Ionic Liquid with Dimethylsulfoxide and Sulfolane by Chemical Kinetics, Viscometry, Spectroscopy, and Molecular Dynamics Simulations. <i>Macromolecular Chemistry and Physics</i> , 2015, 216, 2368-2376.          | 2.2  | 15        |
| 107 | Notes on the determination of the apparent pKa values of acid-base indicators in micellar systems. <i>Journal of Colloid and Interface Science</i> , 1983, 93, 289-292.   | 9.4  | 14        |
| 108 | Proton NMR study on the structure of water in the Stern layer of negatively charged micelles. <i>The Journal of Physical Chemistry</i> , 1987, 91, 2950-2954.   | 2.9  | 14        |

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|-----|---|-----|-----------|
| 109 | A proton NMR study on the structure of water of hydration of aqueous micelles. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1989, 93, 180-183.   | 0.9 | 14        |
| 110 | Optimization of micellar catalysis of nucleophilic substitution reactions in buffered solutions of cetyltrimethylammonium halide surfactants, part 2: buffers in the pH range 7-8. <i>Journal of Physical Organic Chemistry</i> , 2001, 14, 823-831.  | 1.9 | 14        |
| 111 | Experimental and theoretical studies on solvation in aqueous solutions of ionic liquids carrying different side chains: the n-butyl-group versus the methoxyethyl group. <i>RSC Advances</i> , 2017, 7, 15952-15963.                                  | 3.6 | 14        |
| 112 | Kinetics of the reversible hydration of 1,3-dichloroacetone catalysed by aerosol-OT-solubilized acids and bases in carbon tetrachloride. <i>Journal of the Chemical Society Perkin Transactions II</i> , 1980, , 127.                                 | 0.9 | 13        |
| 113 | Surface Properties of Calcinated Titanium Dioxide Probed by Solvatochromic Indicators: Relevance to Catalytic Applications. <i>Journal of Physical Chemistry C</i> , 2010, 114, 10436-10443.  | 3.1 | 13        |
| 114 | FT-IR and <sup>1</sup> H NMR studies of the state of solubilized water in water-in-oil microemulsions stabilized by mixtures of single- and double-tailed cationic surfactants. <i>Journal of Colloid and Interface Science</i> , 2013, 393, 210-218. | 9.4 | 13        |
| 115 | Solvatochromic and Solubility Parameters of Solvents: Equivalence of the Scales and Application to Probe the Solubilization of Asphaltenes. <i>Energy &amp; Fuels</i> , 2016, 30, 4644-4652.  | 5.1 | 13        |
| 116 | Dependence of cellulose dissolution in quaternary ammonium acetates/DMSO on the molecular structure of the electrolyte: use of solvatochromism, micro-calorimetry, and molecular dynamics simulations. <i>Cellulose</i> , 2020, 27, 3565-3580.        | 4.9 | 13        |
| 117 | Acidities and Basicities in Reversed Micellar Systems. , 1984, , 81-93.   |     | 13        |
| 118 | Alkylammonium dialkylarsinate surfactants in organic solvents: Aggregation and water solubilization studies. <i>Journal of Colloid and Interface Science</i> , 1983, 91, 320-328.   | 9.4 | 12        |
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