Laurence S Romsted

List of Publications by Year
in descending order

48 papers	2,923 citations	172457 29 h-index	214800 47 g-index
50 all docs	50 docs citations	50 times ranked	1427 citing authors

#	Article	IF	Citations
1	Ion binding and reactivity at charged aqueous interfaces. Accounts of Chemical Research, 1991, 24, 357-364.	15.6	683
2	Reactions in micelles of cetyltrimethylammonium hydroxide. Test of the pseudophase model for kinetics. The Journal of Physical Chemistry, 1981, 85, 4118-4125.	2.9	139
3	Arenediazonium Salts:Â New Probes of the Interfacial Compositions of Association Colloids. 6. Relationships between Interfacial Counterion and Water Concentrations and Surfactant Headgroup Size, Sphere-to-Rod Transitions, and Chemical Reactivity in Cationic Micellesâ€. Langmuir, 2000, 16, 59-71.	3.5	137
4	Arenediazonium salts: new probes of the interfacial compositions of association colloids. 1. Basic approach, methods, and illustrative applications. Journal of the American Chemical Society, 1993, 115, 8351-8361.	13.7	126
5	Do Amphiphile Aggregate Morphologies and Interfacial Compositions Depend Primarily on Interfacial Hydration and Ion-Specific Interactions? The Evidence from Chemical Trapping. Langmuir, 2007, 23, 414-424.	3.5	117
6	Reagent distribution and micellar catalysis of carbocation reactions. Journal of the American Chemical Society, 1978, 100, 5420-5425.	13.7	113
7	Micellar catalysis, a useful misnomer. Current Opinion in Colloid and Interface Science, 1997, 2, 622-628.	7.4	108
8	Specific Ion Pairing and Interfacial Hydration as Controlling Factors in Gemini Micelle Morphology. Chemical Trapping Studies. Journal of the American Chemical Society, 2006, 128, 492-501.	13.7	101
9	Arenediazonium Salts:Â New Probes of the Interfacial Compositions of Association Colloids. 4.1-3Estimation of the Hydration Numbers of Aqueous Hexaethylene Glycol Monododecyl Ether, C12E6, Micelles by Chemical Trappingâ€. Langmuir, 1996, 12, 2425-2432.	3.5	82
10	Modeling chemical reactivity in emulsions. Current Opinion in Colloid and Interface Science, 2013, 18, 3-14.	7.4	77
11	Tests of the pseudophase model of micellar catalysis: its partial failure. Journal of the American Chemical Society, 1979, 101, 1253-1259.	13.7	76
12	Origin of the Sphere-to-Rod Transition in Cationic Micelles with Aromatic Counterions:â€‰ Specific Ion Hydration in the Interfacial Region Matters. Langmuir, 2005, 21, 562-568.	3.5	71
13	Thermodynamic and Kinetic Basis of Interfacial Activation:Â Resolution of Binding and Allosteric Effects on Pancreatic Phospholipase A2at Zwitterionic Interfacesâ€,â€¡. Biochemistry, 1997, 36, 14512-14530.	2.5	68
14	Effect of Urea on Biomimetic Systems:Â Neither Water 3-D Structure Rupture nor Direct Mechanism, Simply a More â€œPolar Waterâ€• Langmuir, 2002, 18, 319-324.	3.5	64
15	New Method for Estimating the Degree of Ionization and Counterion Selectivity of Cetyltrimethylammonium Halide Micelles:â€‰ Chemical Trapping of Free Counterions by a Water Soluble Arenediazonium Ion. Langmuir, 1997, 13, 647-652.	3.5	62
16	The pseudophase model of micellar catalysis. Addition of cyanide ion to N-alkylpyridinium ions. Journal of the American Chemical Society, 1980, 102, 3900-3903.	13.7	60
17	Determining Î±-tocopherol distributions between the oil, water, and interfacial regions of macroemulsions: Novel applications of electroanalytical chemistry and the pseudophase kinetic model. Advances in Colloid and Interface Science, 2006, 123-126, 303-311.	14.7	54
18	Arenediazonium salts: new probes of the interfacial compositions of association colloids. 2. Binding constants of butanol and hexanol in aqueous three-component cetyltrimethylammonium bromide microemulsions. Journal of the American Chemical Society, 1993, 115, 8362-8367.	13.7	52

#	Article	IF	Citations
19	Specific counterion effects on indicator equilibria in micellar solutions of decyl phosphate and lauryl sulfate surfactants. The Journal of Physical Chemistry, 1989, 93, 4219-4226.	2.9	47
20	A new method for estimating counter-ion selectivity of a cationic association colloid: Trapping of interfacial chloride and bromide counter-ions by reaction with micellar bound aryldiazonium salts. Colloids and Surfaces, 1990, 48, 123-137.	0.9	47
21	Simultaneous determination of counterion, alcohol, and water concentrations at a three-component microemulsion interface using product distributions from a dediazoniation reaction. Journal of the American Chemical Society, 1991, 113, 5052-5053.	13.7	46
22	Determining Partition Constants of Polar Organic Molecules between the Oil/Interfacial and Water/Interfacial Regions in Emulsions:Â A Combined Electrochemical and Spectrometric Method. Langmuir, 2004, 20, 3047-3055.	3.5	44
23	Determination of Halide Concentrations at the Interface of Zwitterionic Micelles by Chemical Trapping: Influence of the Orientation of the Dipole and the Nature of the Cation. Journal of Colloid and Interface Science, 1999, 220, 96-102.	9.4	43
24	Effects of Temperature and Emulsifier Concentration on Î±-Tocopherol Distribution in a Stirred, Fluid, Emulsion. Thermodynamics of Î±-Tocopherol Transfer between the Oil and Interfacial Regions. Langmuir, 2009, 25, 2646-2653.	3.5	40
25	Concentration of Urea in Interfacial Regions of Aqueous Cationic, Anionic, and Zwitterionic Micelles Determined by Chemical Trapping. Langmuir, 2003, 19, 9179-9190.	3.5	39
26	Arenediazonium Salts: New Probes of the Interfacial Compositions of Association Colloids. 3. Distributions of Butanol, Hexanol, and Water in Four-Component Cationic Microemulsions. Journal of the American Chemical Society, 1994, 116, 11779-11786.	13.7	36
27	Counterion affinity orders in aqueous micellar solutions of sodium decyl phosphate and sodium dodecyl sulfate determined by changes in sodium-23 NMR relaxation rates: a surprising dependence on head group charge. Journal of the American Chemical Society, 1993, 115, 989-994.	13.7	34
28	Mechanism of Reaction of an Arenediazonium Ion in Aqueous Solutions of Acetamide,N-Methylacetamide, andN,N-Dimethylacetamide. A Potential Method for Chemically Tagging Peptide Bonds at Aggregate Interfaces. Journal of the American Chemical Society, 1998, 120, 10046-10054.	13.7	31
29	Arenediazonium Salts:Â New Probes of the Interfacial Compositions of Association Colloids. 5.1â^'4Determination of Hydration Numbers and Radial Distributions of Terminal Hydroxyl Groups in Mixed Nonionic CmEnMicelles by Chemical Trapping. Langmuir, 1999, 15, 326-336.	3.5	31
30	Rates and pH-dependent product distributions of the CuCl2-catalyzed dediazoniation ofp-nitrobenzenediazonium Âtetrafluoroborate in aqueous acid. Journal of Physical Organic Chemistry, 1999, 12, 130-140.	1.9	29
31	Ion Pair Formation in Water. Association Constants of Bolaform, Bisquaternary Ammonium, Electrolytes by Chemical Trapping. Journal of Physical Chemistry B, 2005, 109, 23629-23637.	2.6	28
32	Determination of Interfacial Co-ion Concentration in Ionic Micelles by Chemical Trapping:â€‰ Halide Concentration at the Interface of Sodium Dodecyl Sulfate Micelles. Langmuir, 1997, 13, 5032-5035.	3.5	26
33	Kinetic Method for Determining Antioxidant Distributions in Model Food Emulsions:â€‰ Distribution Constants of t-Butylhydroquinone in Mixtures of Octane, Water, and a Nonionic Emulsifier. Journal of Agricultural and Food Chemistry, 2002, 50, 3328-3336.	5.2	25
34	Using the pseudophase kinetic model to interpret chemical reactivity in ionic emulsions: Determining antioxidant partition constants and interfacial rate constants. Journal of Colloid and Interface Science, 2013, 400, 41-48.	9.4	25
35	Interfacial compositions of cationic and mixed non-ionic micelles by chemical trapping: a new method for characterizing the properties of amphiphilic aggregates. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2001, 176, 53-67.	4.7	22
36	Arenediazonium Salts:Â New Probes of the Compositions of Association Colloids. 7. Average Hydration Numbers and Cl-Concentrations in the Surfactant Film of Nonionic C12E5/Octane/Water Macroemulsions:Â Temperature and NaCl Concentration Effectsâ€. Langmuir, 2000, 16, 8771-8779.	3.5	18

#	Article	IF	Citations
37	Effects of interfacial specific cations and water molarities on AOT micelle-to-vesicle transitions by chemical trapping: the specific ion-pair/hydration model. Physical Chemistry Chemical Physics, 2019, 21, 8633-8644.	2.8	18
38	Acid hydrolyses of hydrophobic dioxolanes in cationic micelles: a quantitative treatment based on the Poisson-Boltzmann equation. The Journal of Physical Chemistry, 1991, 95, 6747-6750.	2.9	17
39	Competing Gas-Phase Substitution and Elimination Reactions of Gemini Surfactants with Anionic Counterions by Mass Spectrometry. Density Functional Theory Correlations with Their Bolaform Halide Salt Models. Journal of Physical Chemistry B, 2008, 112, 14435-14445.	2.6	13
40	Simultaneous Determination of Interfacial Molarities of Amide Bonds, Carboxylate Groups, and Water by Chemical Trapping in Micelles of Amphiphiles Containing Peptide Bond Models. Langmuir, 2013, 29, 534-544.	3.5	12
41	A novel combined chemical kinetic and trapping method for probing the relationships between chemical reactivity and interfacial H₂O, Br^{â˜’} and H⁺ ion molarities in CTAB/C₁₂E₆ mixed micelles. Physical Chemistry Chemical Physics, 2017, 19, 23747-23761.	2.8	12
42	Using a pseudophase model to determine AO distributions in emulsions: Why dynamic equilibrium matters. European Journal of Lipid Science and Technology, 2017, 119, 1600277.	1.5	12
43	Anomalous salt effects on a micellar-mediated reaction of bromide ion. Journal of Physical Organic Chemistry, 1990, 3, 239-247.	1.9	8
44	Effects of hydrocarbon and triglyceride oils on butanol distribution in water-in-oil cationic microemulsions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1997, 123-124, 89-105.	4.7	5
45	A Quantitative Treatment of the Deprotonation Equilibria of Benzimidazole in Basic Solutions of Cetyltrimethylammonium Ion (CTAX) Surfactants. , 1982, , 1137-1155.		5
46	Micellar induced regioselectivity in the two-step consecutive reaction of SO2â˜’3 with Br(CH2CH2)nBr (). Journal of Colloid and Interface Science, 2007, 312, 453-459.	9.4	3
47	Estimating Concentrations of Condensed Counterions around a Polyelectrolyte by Chemical Trapping. ACS Symposium Series, 2002, , 184-199.	0.5	2
48	Structural, Infrared, and Density Functional Theory Studies of N,N,Nâ€˜,Nâ€˜-Tetramethylimidazolidinium Dichloride:â€‰ A Model for Cationâ˜’Anion Association of Headgroups and Counterions in the Interfacial Regions of Gemini Micelles. Journal of Physical Chemistry B, 2007, 111, 13668-13674.	2.6	2