

Pasupati Mukerjee

List of Publications by Year in descending order

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6,432
citations

87723

38
h-index

102304

66
g-index

71
all docs

71
docs citations

71
times ranked

3160
citing authors

#	ARTICLE	IF	CITATIONS
1	The nature of the association equilibria and hydrophobic bonding in aqueous solutions of association colloids. <i>Advances in Colloid and Interface Science</i> , 1967, 1, 242-275.	7.0	518
2	Benzene derivatives and naphthalene solubilized in micelles. Polarity of microenvironments, location and distribution in micelles, and correlation with surface activity in hydrocarbon-water systems. <i>The Journal of Physical Chemistry</i> , 1978, 82, 1620-1627.	2.9	313
3	A Re-evaluation of the Spectral Change Method of Determining Critical Micelle Concentration ¹ . <i>Journal of the American Chemical Society</i> , 1955, 77, 2937-2943.	6.6	271
4	Nonideality of mixing of micelles of fluorocarbon and hydrocarbon surfactants and evidence of partial miscibility from differential conductance data. <i>The Journal of Physical Chemistry</i> , 1976, 80, 1388-1390.	2.9	250
5	Size distribution of small and large micelles. Multiple equilibrium analysis. <i>The Journal of Physical Chemistry</i> , 1972, 76, 565-570.	2.9	248
6	Counterion Specificity in the Formation of Ionic Micelles - Size, Hydration, and Hydrophobic Bonding Effects. <i>The Journal of Physical Chemistry</i> , 1967, 71, 4166-4175.	2.9	239
7	Micellar Properties of Drugs: Micellar and Nonmicellar Patterns of Self-Association of Hydrophobic Solutes of Different Molecular Structures – Monomer Fraction, Availability, and Misuses of Micellar Hypothesis. <i>Journal of Pharmaceutical Sciences</i> , 1974, 63, 972-981.	1.6	168
8	A Study of the Surface pH of Micelles Using Solubilized Indicator Dyes. <i>The Journal of Physical Chemistry</i> , 1964, 68, 3567-3574.	2.9	153
9	Dilute Solutions of Amphipathic Ions. I. Conductivity of Strong Salts and Dimerization. <i>The Journal of Physical Chemistry</i> , 1958, 62, 1390-1396.	2.9	148
10	Adsorption of fluorocarbon and hydrocarbon surfactants to air-water, hexane-water and perfluorohexane-water interfaces. Relative affinities and fluorocarbon-hydrocarbon nonideality effects. <i>The Journal of Physical Chemistry</i> , 1981, 85, 2298-2303.	2.9	142
11	Use of Ionic Dyes in Analysis of Ionic Surfactants and Other Ionic Organic Compounds. <i>Analytical Chemistry</i> , 1956, 28, 870-873.	3.2	136
12	THE EFFECT OF UREA ON MICELLE FORMATION AND HYDROPHOBIC BONDING. <i>The Journal of Physical Chemistry</i> , 1963, 67, 190-192.	2.9	134
13	Dimerization of Anions of Long-Chain Fatty Acids in Aqueous Solutions and the Hydrophobic Properties of the Acids. <i>The Journal of Physical Chemistry</i> , 1965, 69, 2821-2827.	2.9	133
14	Microenvironmental effects on transition energies and effective polarities of nitroxides solubilized in micelles of different charge types and the effect of electrolytes on the visible spectra of nitroxides in aqueous solutions. <i>The Journal of Physical Chemistry</i> , 1982, 86, 3198-3205.	2.9	126
15	ON ION-SOLVENT INTERACTIONS. PART I. PARTIAL MOLAL VOLUMES OF IONS IN AQUEOUS SOLUTION ^{1,2} . <i>The Journal of Physical Chemistry</i> , 1961, 65, 740-744.	2.9	118
16	Solubilization as a method for studying self-association: Solubility of naphthalene in the bile salt sodium cholate and the complex pattern of its aggregation. <i>Journal of Pharmaceutical Sciences</i> , 1976, 65, 882-886.	1.6	110
17	"Isoextraction" method and the study of the self-association of methylene blue in aqueous solutions. <i>Journal of the American Chemical Society</i> , 1970, 92, 6403-6407.	6.6	101
18	Affinity of Human Serum Albumin for Bilirubin Varies with Albumin Concentration and Buffer Composition. <i>Journal of Biological Chemistry</i> , 2001, 276, 29953-29960.	1.6	101

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19	Solvent effects on the ultraviolet spectra of benzene derivatives and naphthalene. Identification of polarity sensitive spectral characteristics. The Journal of Physical Chemistry, 1978, 82, 1614-1620.	2.9	95
20	Charge-Transfer Interactions and the Polarity at the Surface of Micelles of Long-Chain Pyridinium Iodides ¹ . The Journal of Physical Chemistry, 1966, 70, 2144-2149.	2.9	93
21	THE PARTIAL SPECIFIC VOLUME AND THE DENSITY OF MICELLES OF ASSOCIATION COLLOIDAL ELECTROLYTES ¹ . The Journal of Physical Chemistry, 1962, 66, 1733-1735.	2.9	90
22	Thermodynamic aspects of the self-association and hydrophobic bonding of methylene blue. Model system for stacking interactions. Journal of the American Chemical Society, 1970, 92, 6419-6424.	6.6	89
23	Fluorocarbon-hydrocarbon interactions in micelles and other lipid assemblies, at interfaces, and in solutions. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1994, 84, 1-10.	2.3	89
24	Salt Effects on Nonionic Association Colloids. The Journal of Physical Chemistry, 1965, 69, 4038-4040.	2.9	87
25	Solubilization in Aqueous Micellar Systems. , 1979, , 153-174.		81
26	Effect of temperature on the electrical conductivity and the thermodynamics of micelle formation of sodium perfluorooctanoate. The Journal of Physical Chemistry, 1985, 89, 5308-5312.	2.9	76
27	The hydration of micelles of association colloidal electrolytes. Journal of Colloid Science, 1964, 19, 722-728.	0.8	70
28	Surface tensions of nonideal mixtures of fluorocarbons and hydrocarbons and their interfacial tensions against water. The Journal of Physical Chemistry, 1981, 85, 3916-3920.	2.9	68
29	THE THERMODYNAMICS OF MICELLE FORMATION IN ASSOCIATION COLLOIDS. The Journal of Physical Chemistry, 1962, 66, 1375-1376.	2.9	66
30	Anomalies of Partially Fluorinated Surfactant Micelles. ACS Symposium Series, 1975, , 239-252.	0.5	62
31	Solubilization of Benzoic Acid Derivatives by Nonionic Surfactants: Location of Solubilizates in Hydrocarbon Core of Micelles and Polyoxyethylene Mantle. Journal of Pharmaceutical Sciences, 1971, 60, 1528-1531.	1.6	61
32	Odd-even alternation in the chain length variation of micellar properties. Colloid and Polymer Science, 1970, 236, 76-79.	1.0	60
33	Multiple association equilibria in the self-association of methylene blue and other dyes. Journal of the American Chemical Society, 1970, 92, 6408-6412.	6.6	57
34	Effects of High Salt Concentrations on the Micellization of Octyl Glucoside: Salting-Out of Monomers and Electrolyte Effects on the Micelle-Water Interfacial Tension ¹ . Langmuir, 2002, 18, 5375-5381.	1.6	57
35	Bile Salts as Atypical Surfactants and Solubilizers. Hepatology, 1984, 4, 61S-65S.	3.6	46
36	High-pressure study of micelle formation in aqueous solutions of sodium perfluorooctanoate. The Journal of Physical Chemistry, 1981, 85, 1612-1616.	2.9	45

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37	Determination of critical micellization concentrations of perfluorocarboxylates using ultraviolet spectroscopy: some unusual counterion effects. <i>The Journal of Physical Chemistry</i> , 1990, 94, 8832-8835.	2.9	44
38	Effect of pH on solubility and ionic state of lipopolysaccharide obtained from the deep rough mutant of <i>Escherichia coli</i> . <i>Biochemistry</i> , 1993, 32, 4579-4586.	1.2	44
39	The Nature of the Local Microenvironments in Aqueous Micellar Systems. , 1977, , 241-261.		41
40	Analysis of Distribution Model for Micellar Solubilization using Thermodynamics of Small Systems: Nonideality of Solubilization of Benzoic Acid Derivatives in Nonionic Surfactants. <i>Journal of Pharmaceutical Sciences</i> , 1971, 60, 1531-1534.	1.6	40
41	Interfacial tensions of perfluorohexane and perfluorodecalin against water. <i>Langmuir</i> , 1989, 5, 227-229.	1.6	38
42	THE NATURE OF THE BINDING OF COUNTERIONS ON CHARGED COLLOIDS AND MACROMOLECULES. <i>The Journal of Physical Chemistry</i> , 1962, 66, 943-945.	2.9	37
43	Some Aspects of Interionic Charge-Transfer Interactions of Alkylpyridinium Ions in Ion Pairs and on Micelles. <i>The Journal of Physical Chemistry</i> , 1966, 70, 2138-2143.	2.9	37
44	Ionic strength effects on the activity coefficient of methylene blue and its self-association. <i>Journal of the American Chemical Society</i> , 1970, 92, 6413-6415.	6.6	35
45	Hydrophobic and electrostatic interactions in ionic micelles. Problems in calculating monomer contributions to the free energy. <i>The Journal of Physical Chemistry</i> , 1969, 73, 2054-2056.	2.9	30
46	Formation and Some Properties of Micelles. <i>Zeitschrift Fur Elektrotechnik Und Elektrochemie</i> , 1978, 82, 931-937.	0.9	30
47	Albumin binding of unconjugated [³ H]bilirubin and its uptake by rat liver basolateral plasma membrane vesicles. <i>Biochemical Journal</i> , 1996, 316, 999-1004.	1.7	29
48	ON ION-SOLVENT INTERACTIONS. PART II. INTERNAL PRESSURE AND ELECTROSTRICTION OF AQUEOUS SOLUTIONS OF ELECTROLYTES. <i>The Journal of Physical Chemistry</i> , 1961, 65, 744-746.	2.9	27
49	THE ACTIVITY OF ASSOCIATION COLLOIDS ABOVE THE CRITICAL MICELLE CONCENTRATION. <i>The Journal of Physical Chemistry</i> , 1963, 67, 1943-1944.	2.9	26
50	Dilute Solutions of Amphipathic Ions. II. Transference of Lauryl Sulfate in Sodium Lauryl Sulfate. <i>The Journal of Physical Chemistry</i> , 1958, 62, 1397-1400.	2.9	25
51	Low solubility of unconjugated bilirubin in dimethylsulfoxide–water systems: implications for pK _a determinations. <i>BMC Biochemistry</i> , 2002, 3, 17.	4.4	25
52	Effects of added dimethylsulfoxide on pK _a values of uncharged organic acids and pH values of aqueous buffers. <i>Tetrahedron Letters</i> , 1998, 39, 423-426.	0.7	24
53	Dilute Solutions of Amphipathic Ions. III. Conductivity of Weak Salts. <i>The Journal of Physical Chemistry</i> , 1958, 62, 1400-1404.	2.9	23
54	Dilute Solutions of Amphipathic Ions. IV. Some General Effects of Dimerization. <i>The Journal of Physical Chemistry</i> , 1958, 62, 1404-1408.	2.9	23

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55	Size Distribution of Micelles: Monomer-Micelle Equilibrium, Treatment of Experimental Molecular Weight Data, the Sphere-to-Rod Transition and a General Association Model. , 1977, , 171-194.		23
56	Adsorption of Ionic Surfactants to Porous Glass: The Exclusion of Micelles and Other Solutes from Adsorbed Layers and the Problem of Adsorption Maxima. ACS Symposium Series, 1975, , 107-128.	0.5	21
57	Salt effects on the critical micelle concentrations of nonionic surfactants. The Journal of Physical Chemistry, 1970, 74, 3824-3826.	2.9	20
58	Revalidation and rationale for high pKa values of unconjugated bilirubin. BMC Biochemistry, 2007, 8, 7.	4.4	19
59	Spectrophotometric analysis of long-chain amines by a dye-extraction method. Journal of Applied Chemistry, 1962, 12, 127-129.	0.0	18
60	Review: Bilirubin pKa studies; new models and theories indicate high pKa values in water, dimethylformamide and DMSO. BMC Biochemistry, 2010, 11, 15.	4.4	18
61	Cell for isoextraction studies and determination of some acid dissociation constants. Analytical Chemistry, 1978, 50, 1589-1591.	3.2	13
62	Interactions of unconjugated bilirubin with vesicles, cyclodextrins and micelles: New modeling and the role of high pKa values. BMC Biochemistry, 2010, 11, 16.	4.4	10
63	Solvent partition of ¹⁴ C-unconjugated bilirubin to remove labeled polar contaminants. Translational Research, 2007, 149, 37-45.	2.2	9
64	The electroviscous effect in colloidal systems. Journal of Colloid Science, 1957, 12, 267-270.	0.8	8
65	Effective Dielectric Constant for Short-range Ionic Interactions at High Salt Concentrations. Nature, 1969, 223, 1056-1057.	13.7	8
66	Spectrophotometric Determination of Perfluoro Carboxylic Acids (Heptanoic to Decanoic) and Sodium Perfluorooctanoate and Decyl Sulfate In Mixtures By Dye-Extraction. Analytical Letters, 1989, 22, 999-1007.	1.0	8
67	Effects of High Electrolyte Concentrations on the Solubilization of 6-p-Toluidino-2-naphthalene Sulfonate in Octyl Glucoside Micelles: Salting-Out and Interfacial Free Energy Effects ¹ . Langmuir, 2002, 18, 5382-5386.	1.6	8
68	Rates of Adsorption of Wetting Agents and Detergents. Nature, 1968, 217, 1046-1046.	13.7	3
69	Adsorption of Surfactants and Solubilization in Adsorbed Layers. ACS Symposium Series, 1996, , 22-35.	0.5	1