Paul L Dubin

List of Publications by Year
in descending order

81 papers	5,618 citations	76196 40 h-index	76769 74 g-index
81 all docs	81 docs citations	81 times ranked	3600 citing authors

#	Article	IF	Citations
1	Ionic Strength Dependence of Protein-Polyelectrolyte Interactions. Biomacromolecules, 2003, 4, 273-282.	2.6	368
2	Proteinâ€“polyelectrolyte interactions. Soft Matter, 2013, 9, 2553.	1.2	353
3	Complexation and coacervation of polyelectrolytes with oppositely charged colloids. Advances in Colloid and Interface Science, 2011, 167, 24-37.	7.0	338
4	Effects of protein charge heterogeneity in protein-polyelectrolyte complexation. Macromolecules, 1992, 25, 290-295.	2.2	310
5	Complex Formation between Bovine Serum Albumin and Strong Polyelectrolytes:Â Effect of Polymer Charge Density. Journal of Physical Chemistry B, 1998, 102, 3830-3836.	1.2	236
6	Polyelectrolyteâ^'Micelle Coacervation:â€‰ Effects of Micelle Surface Charge Density, Polymer Molecular Weight, and Polymer/Surfactant Ratio. Macromolecules, 2000, 33, 3324-3331.	2.2	199
7	Effects of Salt on Polyelectrolyteâ^'Micelle Coacervation. Macromolecules, 1999, 32, 7128-7134.	2.2	197
8	Protein Purification by Polyelectrolyte Coacervation: Influence of Protein Charge Anisotropy on Selectivity. Biomacromolecules, 2011, 12, 1512-1522.	2.6	191
9	Protein-Polyelectrolyte Phase Boundaries. Biotechnology Progress, 1995, 11, 632-637.	1.3	169
10	Critical conditions for the binding of polyelectrolytes to small oppositely charged micelles. The Journal of Physical Chemistry, 1992, 96, 1973-1978.	2.9	149
11	Complexation of Proteins with a Strong Polyanion in an Aqueous Salt-free System. Langmuir, 1996, 12, 6295-6303.	1.6	131
12	Effects of Polyelectrolyte Chain Stiffness, Charge Mobility, and Charge Sequences on Binding to Proteins and Micelles. Biomacromolecules, 2006, 7, 1025-1035.	2.6	127
13	Electrophoretic and quasi-elastic light scattering of soluble protein-polyelectrolyte complexes. The Journal of Physical Chemistry, 1993, 97, 4528-4534.	2.9	122
14	Entering and Exiting the Proteinâ^'Polyelectrolyte Coacervate Phase via Nonmonotonic Salt Dependence of Critical Conditions. Biomacromolecules, 2010, 11, 51-59.	2.6	103
15	Coacervation and precipitation in polysaccharideâ€“protein systems. Soft Matter, 2016, 12, 4154-4161.	1.2	102
16	Binding of Bovine Serum Albumin to Heparin Determined by Turbidimetric Titration and Frontal Analysis Continuous Capillary Electrophoresis. Analytical Biochemistry, 2001, 295, 158-167.	1.1	101
17	Complex Formation between Polyelectrolyte and Oppositely Charged Mixed Micelles: Static and Dynamic Light Scattering Study of the Effect of Polyelectrolyte Molecular Weight and Concentration. Macromolecules, 1994, 27, 7049-7055.	2.2	100
18	Binding of polyelectrolytes to oppositely charged ionic micelles at critical micelle surface charge densities. Langmuir, 1989, 5, 89-95.	1.6	96

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19	Identification by Integrated Computer Modeling and Light Scattering Studies of an Electrostatic Serum Albumin-Hyaluronic Acid Binding Site. Biomacromolecules, 2001, 2, 422-429.	2.6	92
20	Structural elucidation of soluble polyelectrolyte-micelle complexes: intra- vs interpolymer association. Macromolecules, 1993, 26, 2759-2766.	2.2	89
21	Protein Adsorption onto Polyelectrolyte Layers: Effects of Protein Hydrophobicity and Charge Anisotropy. Langmuir, 2010, 26, 14032-14038.	1.6	87
22	Interaction of DNA with Cationic Micelles:â€‰ Effects of Micelle Surface Charge Density, Micelle Shape, and Ionic Strength on Complexation and DNA Collapse. Langmuir, 2001, 17, 1670-1673.	1.6	81
23	Protein-Selective Coacervation with Hyaluronic Acid. Biomacromolecules, 2014, 15, 726-734.	2.6	80
24	Protein-Polyelectrolyte Complexes. , 1994, , 247-271.		72
25	Mesophase separation and probe dynamics in proteinâ€“polyelectrolyte coacervates. Soft Matter, 2007, 3, 1064-1076.	1.2	70
26	Liquid-liquid and liquid-solid phase separation in protein-polyelectrolyte systems. Advances in Colloid and Interface Science, 2017, 239, 213-217.	7.0	70
27	Complex Formation between Polyelectrolyte and Oppositely Charged Mixed Micelles: Soluble Complexes vs Coacervation. Langmuir, 1995, 11, 2486-2492.	1.6	66
28	Complex formation between polyacrylic acid and cationic/nonionic mixed micelles: effect of pH on electrostatic interaction and hydrogen bonding. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 1999, 147, 161-167.	2.3	66
29	Heteroprotein Complex Coacervation: Bovine Î²-Lactoglobulin and Lactoferrin. Langmuir, 2013, 29, 15614-15623.	1.6	64
30	pH-Dependent Aggregation and Disaggregation of Native Î²-Lactoglobulin in Low Salt. Langmuir, 2013, 29, 4584-4593.	1.6	60
31	Dye solubilization in polyelectrolyteâ€”micelle complexes. Journal of Colloid and Interface Science, 1991, 142, 512-517.	5.0	59
32	Binding of proteins to copolymers of varying hydrophobicity. , 1999, 49, 185-193.		58
33	Glycosaminoglycans as polyelectrolytes. Advances in Colloid and Interface Science, 2010, 158, 119-129.	7.0	56
34	Complexation of trypsin and alcohol dehydrogenase with poly(diallyldimethylammonium chloride). Biopolymers, 1997, 41, 359-365.	1.2	55
35	Shear-Induced Phase Separation in Polyelectrolyte/Mixed Micelle Coacervates. Langmuir, 2009, 25, 13376-13383.	1.6	52
36	Coexistence of Spheres and Rods in Micellar Solution of Dodecyldimethylamine Oxide. Journal of Physical Chemistry B, 2004, 108, 5980-5988.	1.2	49

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37	Nonspecific electrostatic binding characteristics of the heparin-antithrombin interaction. Biopolymers, 2007, 86, 249-259.	1.2	49
38	Light scattering studies of the binding of bovine serum albumin to a cationic polyelectrolyte. Biopolymers, 1998, 38, 527-533.	1.2	48
39	Cryo-TEM of Polyelectrolyteâ€“Micelle Complexes. Journal of Colloid and Interface Science, 1997, 186, 414-419.	5.0	46
40	Dependence of Structure of Polyelectrolyte/Micelle Complexes upon Polyelectrolyte Chain Length and Micelle Size. Macromolecules, 1995, 28, 6795-6798.	2.2	42
41	Cluster Formation in Polyelectrolyteâ^'Micelle Complex Coacervation. Journal of Physical Chemistry B, 2011, 115, 7256-7263.	1.2	42
42	Stoichiometry and coacervation of complexes formed between polyelectrolytes and mixed micelles. Colloids and Surfaces, 1985, 13, 113-124.	0.9	41
43	Interaction of Pyrene-Labeled Hydrophobically Modified Polyelectrolytes with Oppositely Charged Mixed Micelles Studied by Fluorescence Quenching. Journal of Physical Chemistry B, 1998, 102, 1908-1915.	1.2	40
44	Glycosaminoglycans as Naturally Occurring Combinatorial Libraries:Â Developing a Mass Spectrometry-Based Strategy for Characterization of Anti-Thrombin Interaction with Low Molecular Weight Heparin and Heparin Oligomers. Analytical Chemistry, 2007, 79, 6055-6063.	3.2	40
45	Effect of Pore Size on Adsorption of a Polyelectrolyte to Porous Glass. Langmuir, 2007, 23, 2510-2516.	1.6	39
46	Temperature-Dependent Phase Behavior of Polyelectrolyteâ^'Mixed Micelle Systemsâ€. Journal of Physical Chemistry B, 2007, 111, 8468-8476.	1.2	39
47	Evolution of hierarchical structures in polyelectrolyteâ€“micelle coacervates. Soft Matter, 2013, 9, 7320.	1.2	35
48	Mesophase Separation in Polyelectrolyte-Mixed Micelle Coacervates. Langmuir, 2008, 24, 4544-4549.	1.6	34
49	Quasielastic light scattering, electrophoresis, and fluorescence studies of lysozyme-poly(2-acrylamido-methylpropylsulfate) complexes. Biopolymers, 1995, 35, 411-418.	1.2	31
50	Binding of Carboxy-Terminated Anionic/Nonionic Mixed Micelles to a Strong Polycation:Â Critical Conditions for Complex Formationâ€. Langmuir, 2000, 16, 9082-9086.	1.6	30
51	Light scattering, CD, and ligand binding studies of ferrihemoglobin-polyelectrolyte complexes. , 1999, 50, 153-161.		28
52	Analysis of Polydispersity of Mixed Micelles of TX-100/SDS and C12E8/SDS by Capillary Electrophoresis. Journal of Colloid and Interface Science, 1997, 186, 264-270.	5.0	26
53	Uptake of Organic Pollutants by Silicaâ^'Polycation-Immobilized Micelles for Groundwater Remediation. Environmental Science & Technology, 2005, 39, 8475-8480.	4.6	26
54	Charge-Induced Conformational Changes in Carboxymethylamylose. Macromolecules, 1975, 8, 831-842.	2.2	25

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55	Polymerâ€”Surfactant Complexes. ACS Symposium Series, 1994, , 320-336.	0.5	25
56	Microâ€•and macroâ€phase behavior in proteinâ€polyelectrolyte complexes. Macromolecular Symposia, 1999, 140, 53-76.	0.4	24
57	Protein binding on polyelectrolyte-treated glass. Journal of Chromatography A, 1998, 808, 61-70.	1.8	22
58	Dilute solution properties of poly(dimethyldiallylammonium chloride) in aqueous sodium chloride solutions. Journal of Polymer Science, Part B: Polymer Physics, 1995, 33, 1117-1122.	2.4	21
59	Electrostatic Forces as Dominant Interactions Between Proteins and Polyanions: an ESI MS Study of Fibroblast Growth Factor Binding to Heparin Oligomers. Journal of the American Society for Mass Spectrometry, 2017, 28, 758-767.	1.2	21
60	Precipitateâ€“Coacervate Transformation in Polyelectrolyteâ€“Mixed Micelle Systems. Journal of Physical Chemistry B, 2017, 121, 4466-4473.	1.2	20
61	Complex coacervation. Soft Matter, 2018, 14, 329-330.	1.2	20
62	Protein Separation via Polyelectrolyte Complexation. ACS Symposium Series, 1990, , 66-79.	0.5	19
63	Counterion Condensation on Heparin Oligomers. Biomacromolecules, 2013, 14, 1113-1121.	2.6	16
64	Modulation of Polyelectrolyteâ€“Micelle Interactions via Zeta Potentials. Macromolecules, 2017, 50, 5518-5526.	2.2	16
65	Carboxylated Ficolls:Â Preparation, Characterization, and Electrophoretic Behavior of Model Charged Nanospheres. Journal of Physical Chemistry B, 2006, 110, 20815-20822.	1.2	14
66	Inhibition of Antithrombin and Bovine Serum Albumin Native State Aggregation by Heparin. Langmuir, 2014, 30, 278-287.	1.6	12
67	Dilution induced coacervation in polyelectrolyteâ€“micelle and polyelectrolyteâ€“protein systems. Soft Matter, 2018, 14, 2391-2399.	1.2	12
68	Steady-State and Time-Dependent Fluorescence Quenching Studies of the Binding of Anionic Micelles to Polycationâ€. Journal of Physical Chemistry A, 2002, 106, 2007-2013.	1.1	11
69	Polysaccharide zeta-potentials and protein-affinity. Physical Chemistry Chemical Physics, 2017, 19, 21090-21094.	1.3	11
70	Stoichiometry and the Mechanism of Complex Formationin Protein-Polyelectrolyte Coacervation. Journal of Macromolecular Science - Pure and Applied Chemistry, 1994, 31, 17-29.	1.2	9
71	Heparin Decamer Bridges a Growth Factor and an Oligolysine by Different Charge-Driven Interactions. Biomacromolecules, 2013, 14, 4091-4098.	2.6	9
72	The so-called critical condition for polyelectrolyte-colloid complex formation. Journal of Chemical Physics, 2018, 149, 163321.	1.2	9

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73	Mass Spectrometry Reveals a Multifaceted Role of Glycosaminoglycan Chains in Factor Xa Inactivation by Antithrombin. Biochemistry, 2018, 57, 4880-4890.	1.2	9
74	Frontal Analysis Continuous Capillary Electrophoresis for Proteinâ€“Polyelectrolyte Binding Studies. , 2004, 276, 217-228.		8
75	Dynamic and electrophoretic light scattering of poly(dimethyldiallylammonium chloride) in salt-free solutions. Journal of Polymer Science, Part B: Polymer Physics, 1996, 34, 497-503.	2.4	7
76	A Method for the Quantitation of Charge by Size Exclusion Chromatography Demonstrated with Components of Ficoll 400. Macromolecular Chemistry and Physics, 2001, 202, 61-72.	1.1	7
77	Measurement of Equilibrium Binding of Cationic Micelles to a Polyanion by Membrane Filtration. Langmuir, 2002, 18, 2032-2035.	1.6	7
78	Stoichiometric and Nonstoichiometric Complex Formation of Bovine Serum Albuminâ€”Poly(dimethyldiallyl ammonium chloride). ACS Symposium Series, 1993, , 225-242.	0.5	4
79	Influence of Net Protein Charge and Stationary Phase Charge on Protein Retention in Size Exclusion Chromatography. ACS Symposium Series, 1996, , 88-102.	0.5	4
80	Antimixing Micelles of Dimethyldodecylamineoxide and Nonionic Surfactants. ACS Symposium Series, 1992, , 234-242.	0.5	1
81	Polycation-Tethered Micelles as Immobilized Detergents for NAPL Remediation. ACS Symposium Series, 2013, , 97-109.	0.5	1