

Paul L Dubin

List of Publications by Year in descending order

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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 | Dilution induced coacervation in polyelectrolyteâ€“micelle and polyelectrolyteâ€“protein systems. <i>Soft Matter</i> , 2018, 14, 2391-2399. | 1.2 | 12 |
| 2 | Complex coacervation. <i>Soft Matter</i> , 2018, 14, 329-330. | 1.2 | 20 |
| 3 | The so-called critical condition for polyelectrolyte-colloid complex formation. <i>Journal of Chemical Physics</i> , 2018, 149, 163321. | 1.2 | 9 |
| 4 | Mass Spectrometry Reveals a Multifaceted Role of Glycosaminoglycan Chains in Factor Xa Inactivation by Antithrombin. <i>Biochemistry</i> , 2018, 57, 4880-4890. | 1.2 | 9 |
| 5 | Precipitateâ€“Coacervate Transformation in Polyelectrolyteâ€“Mixed Micelle Systems. <i>Journal of Physical Chemistry B</i> , 2017, 121, 4466-4473. | 1.2 | 20 |
| 6 | Polysaccharide zeta-potentials and protein-affinity. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 21090-21094. | 1.3 | 11 |
| 7 | Modulation of Polyelectrolyteâ€“Micelle Interactions via Zeta Potentials. <i>Macromolecules</i> , 2017, 50, 5518-5526. | 2.2 | 16 |
| 8 | Electrostatic Forces as Dominant Interactions Between Proteins and Polyanions: an ESI MS Study of Fibroblast Growth Factor Binding to Heparin Oligomers. <i>Journal of the American Society for Mass Spectrometry</i> , 2017, 28, 758-767. | 1.2 | 21 |
| 9 | Liquid-liquid and liquid-solid phase separation in protein-polyelectrolyte systems. <i>Advances in Colloid and Interface Science</i> , 2017, 239, 213-217. | 7.0 | 70 |
| 10 | Coacervation and precipitation in polysaccharideâ€“protein systems. <i>Soft Matter</i> , 2016, 12, 4154-4161. | 1.2 | 102 |
| 11 | Protein-Selective Coacervation with Hyaluronic Acid. <i>Biomacromolecules</i> , 2014, 15, 726-734. | 2.6 | 80 |
| 12 | Inhibition of Antithrombin and Bovine Serum Albumin Native State Aggregation by Heparin. <i>Langmuir</i> , 2014, 30, 278-287. | 1.6 | 12 |
| 13 | Heteroprotein Complex Coacervation: Bovine Î²-Lactoglobulin and Lactoferrin. <i>Langmuir</i> , 2013, 29, 15614-15623. | 1.6 | 64 |
| 14 | Evolution of hierarchical structures in polyelectrolyteâ€“micelle coacervates. <i>Soft Matter</i> , 2013, 9, 7320. | 1.2 | 35 |
| 15 | Proteinâ€“polyelectrolyte interactions. <i>Soft Matter</i> , 2013, 9, 2553. | 1.2 | 353 |
| 16 | pH-Dependent Aggregation and Disaggregation of Native Î²-Lactoglobulin in Low Salt. <i>Langmuir</i> , 2013, 29, 4584-4593. | 1.6 | 60 |
| 17 | Polycation-Tethered Micelles as Immobilized Detergents for NAPL Remediation. <i>ACS Symposium Series</i> , 2013, , 97-109. | 0.5 | 1 |
| 18 | Heparin Decamer Bridges a Growth Factor and an Oligolysine by Different Charge-Driven Interactions. <i>Biomacromolecules</i> , 2013, 14, 4091-4098. | 2.6 | 9 |

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|----|--|-----|-----------|
| 19 | Counterion Condensation on Heparin Oligomers. <i>Biomacromolecules</i> , 2013, 14, 1113-1121. | 2.6 | 16 |
| 20 | Cluster Formation in Polyelectrolyte-Micelle Complex Coacervation. <i>Journal of Physical Chemistry B</i> , 2011, 115, 7256-7263. | 1.2 | 42 |
| 21 | Protein Purification by Polyelectrolyte Coacervation: Influence of Protein Charge Anisotropy on Selectivity. <i>Biomacromolecules</i> , 2011, 12, 1512-1522. | 2.6 | 191 |
| 22 | Complexation and coacervation of polyelectrolytes with oppositely charged colloids. <i>Advances in Colloid and Interface Science</i> , 2011, 167, 24-37. | 7.0 | 338 |
| 23 | Glycosaminoglycans as polyelectrolytes. <i>Advances in Colloid and Interface Science</i> , 2010, 158, 119-129. | 7.0 | 56 |
| 24 | Protein Adsorption onto Polyelectrolyte Layers: Effects of Protein Hydrophobicity and Charge Anisotropy. <i>Langmuir</i> , 2010, 26, 14032-14038. | 1.6 | 87 |
| 25 | Entering and Exiting the Protein-Polyelectrolyte Coacervate Phase via Nonmonotonic Salt Dependence of Critical Conditions. <i>Biomacromolecules</i> , 2010, 11, 51-59. | 2.6 | 103 |
| 26 | Shear-Induced Phase Separation in Polyelectrolyte/Mixed Micelle Coacervates. <i>Langmuir</i> , 2009, 25, 13376-13383. | 1.6 | 52 |
| 27 | Mesophase Separation in Polyelectrolyte-Mixed Micelle Coacervates. <i>Langmuir</i> , 2008, 24, 4544-4549. | 1.6 | 34 |
| 28 | Effect of Pore Size on Adsorption of a Polyelectrolyte to Porous Glass. <i>Langmuir</i> , 2007, 23, 2510-2516. | 1.6 | 39 |
| 29 | Temperature-Dependent Phase Behavior of Polyelectrolyte-Mixed Micelle Systems. <i>Journal of Physical Chemistry B</i> , 2007, 111, 8468-8476. | 1.2 | 39 |
| 30 | Glycosaminoglycans as Naturally Occurring Combinatorial Libraries: Developing a Mass Spectrometry-Based Strategy for Characterization of Anti-Thrombin Interaction with Low Molecular Weight Heparin and Heparin Oligomers. <i>Analytical Chemistry</i> , 2007, 79, 6055-6063. | 3.2 | 40 |
| 31 | Mesophase separation and probe dynamics in protein-polyelectrolyte coacervates. <i>Soft Matter</i> , 2007, 3, 1064-1076. | 1.2 | 70 |
| 32 | Nonspecific electrostatic binding characteristics of the heparin-antithrombin interaction. <i>Biopolymers</i> , 2007, 86, 249-259. | 1.2 | 49 |
| 33 | Carboxylated Ficoll: Preparation, Characterization, and Electrophoretic Behavior of Model Charged Nanospheres. <i>Journal of Physical Chemistry B</i> , 2006, 110, 20815-20822. | 1.2 | 14 |
| 34 | Effects of Polyelectrolyte Chain Stiffness, Charge Mobility, and Charge Sequences on Binding to Proteins and Micelles. <i>Biomacromolecules</i> , 2006, 7, 1025-1035. | 2.6 | 127 |
| 35 | Uptake of Organic Pollutants by Silica-Polycation-Immobilized Micelles for Groundwater Remediation. <i>Environmental Science & Technology</i> , 2005, 39, 8475-8480. | 4.6 | 26 |
| 36 | Frontal Analysis Continuous Capillary Electrophoresis for Protein-Polyelectrolyte Binding Studies. , 2004, 276, 217-228. | | 8 |

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|----|--|-----|-----------|
| 37 | Coexistence of Spheres and Rods in Micellar Solution of Dodecyldimethylamine Oxide. <i>Journal of Physical Chemistry B</i> , 2004, 108, 5980-5988. | 1.2 | 49 |
| 38 | Ionic Strength Dependence of Protein-Polyelectrolyte Interactions. <i>Biomacromolecules</i> , 2003, 4, 273-282. | 2.6 | 368 |
| 39 | Measurement of Equilibrium Binding of Cationic Micelles to a Polyanion by Membrane Filtration. <i>Langmuir</i> , 2002, 18, 2032-2035. | 1.6 | 7 |
| 40 | Steady-State and Time-Dependent Fluorescence Quenching Studies of the Binding of Anionic Micelles to Polycation. <i>Journal of Physical Chemistry A</i> , 2002, 106, 2007-2013. | 1.1 | 11 |
| 41 | Identification by Integrated Computer Modeling and Light Scattering Studies of an Electrostatic Serum Albumin-Hyaluronic Acid Binding Site. <i>Biomacromolecules</i> , 2001, 2, 422-429. | 2.6 | 92 |
| 42 | Interaction of DNA with Cationic Micelles: Effects of Micelle Surface Charge Density, Micelle Shape, and Ionic Strength on Complexation and DNA Collapse. <i>Langmuir</i> , 2001, 17, 1670-1673. | 1.6 | 81 |
| 43 | Binding of Bovine Serum Albumin to Heparin Determined by Turbidimetric Titration and Frontal Analysis Continuous Capillary Electrophoresis. <i>Analytical Biochemistry</i> , 2001, 295, 158-167. | 1.1 | 101 |
| 44 | A Method for the Quantitation of Charge by Size Exclusion Chromatography Demonstrated with Components of Ficoll 400. <i>Macromolecular Chemistry and Physics</i> , 2001, 202, 61-72. | 1.1 | 7 |
| 45 | Binding of Carboxy-Terminated Anionic/Nonionic Mixed Micelles to a Strong Polycation: A Critical Conditions for Complex Formation. <i>Langmuir</i> , 2000, 16, 9082-9086. | 1.6 | 30 |
| 46 | Polyelectrolyte-Micelle Coacervation: Effects of Micelle Surface Charge Density, Polymer Molecular Weight, and Polymer/Surfactant Ratio. <i>Macromolecules</i> , 2000, 33, 3324-3331. | 2.2 | 199 |
| 47 | Complex formation between polyacrylic acid and cationic/nonionic mixed micelles: effect of pH on electrostatic interaction and hydrogen bonding. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 1999, 147, 161-167. | 2.3 | 66 |
| 48 | Binding of proteins to copolymers of varying hydrophobicity. , 1999, 49, 185-193. | | 58 |
| 49 | Light scattering, CD, and ligand binding studies of ferrihemoglobin-polyelectrolyte complexes. , 1999, 50, 153-161. | | 28 |
| 50 | Micro- and macro-phase behavior in protein-polyelectrolyte complexes. <i>Macromolecular Symposia</i> , 1999, 140, 53-76. | 0.4 | 24 |
| 51 | Effects of Salt on Polyelectrolyte-Micelle Coacervation. <i>Macromolecules</i> , 1999, 32, 7128-7134. | 2.2 | 197 |
| 52 | Protein binding on polyelectrolyte-treated glass. <i>Journal of Chromatography A</i> , 1998, 808, 61-70. | 1.8 | 22 |
| 53 | Light scattering studies of the binding of bovine serum albumin to a cationic polyelectrolyte. <i>Biopolymers</i> , 1998, 38, 527-533. | 1.2 | 48 |
| 54 | Interaction of Pyrene-Labeled Hydrophobically Modified Polyelectrolytes with Oppositely Charged Mixed Micelles Studied by Fluorescence Quenching. <i>Journal of Physical Chemistry B</i> , 1998, 102, 1908-1915. | 1.2 | 40 |

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|----|--|-----|-----------|
| 55 | Complex Formation between Bovine Serum Albumin and Strong Polyelectrolytes: Effect of Polymer Charge Density. <i>Journal of Physical Chemistry B</i> , 1998, 102, 3830-3836. | 1.2 | 236 |
| 56 | Complexation of trypsin and alcohol dehydrogenase with poly(diallyldimethylammonium chloride). <i>Biopolymers</i> , 1997, 41, 359-365. | 1.2 | 55 |
| 57 | Cryo-TEM of Polyelectrolyte-Micelle Complexes. <i>Journal of Colloid and Interface Science</i> , 1997, 186, 414-419. | 5.0 | 46 |
| 58 | Analysis of Polydispersity of Mixed Micelles of TX-100/SDS and C12E8/SDS by Capillary Electrophoresis. <i>Journal of Colloid and Interface Science</i> , 1997, 186, 264-270. | 5.0 | 26 |
| 59 | Influence of Net Protein Charge and Stationary Phase Charge on Protein Retention in Size Exclusion Chromatography. <i>ACS Symposium Series</i> , 1996, , 88-102. | 0.5 | 4 |
| 60 | Complexation of Proteins with a Strong Polyanion in an Aqueous Salt-free System. <i>Langmuir</i> , 1996, 12, 6295-6303. | 1.6 | 131 |
| 61 | Dynamic and electrophoretic light scattering of poly(dimethyldiallylammonium chloride) in salt-free solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1996, 34, 497-503. | 2.4 | 7 |
| 62 | Quasielastic light scattering, electrophoresis, and fluorescence studies of lysozyme-poly(2-acrylamido-methylpropylsulfate) complexes. <i>Biopolymers</i> , 1995, 35, 411-418. | 1.2 | 31 |
| 63 | Dilute solution properties of poly(dimethyldiallylammonium chloride) in aqueous sodium chloride solutions. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 1995, 33, 1117-1122. | 2.4 | 21 |
| 64 | Protein-Polyelectrolyte Phase Boundaries. <i>Biotechnology Progress</i> , 1995, 11, 632-637. | 1.3 | 169 |
| 65 | Complex Formation between Polyelectrolyte and Oppositely Charged Mixed Micelles: Soluble Complexes vs Coacervation. <i>Langmuir</i> , 1995, 11, 2486-2492. | 1.6 | 66 |
| 66 | Dependence of Structure of Polyelectrolyte/Micelle Complexes upon Polyelectrolyte Chain Length and Micelle Size. <i>Macromolecules</i> , 1995, 28, 6795-6798. | 2.2 | 42 |
| 67 | Complex Formation between Polyelectrolyte and Oppositely Charged Mixed Micelles: Static and Dynamic Light Scattering Study of the Effect of Polyelectrolyte Molecular Weight and Concentration. <i>Macromolecules</i> , 1994, 27, 7049-7055. | 2.2 | 100 |
| 68 | Stoichiometry and the Mechanism of Complex Formation in Protein-Polyelectrolyte Coacervation. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 1994, 31, 17-29. | 1.2 | 9 |
| 69 | Polymer-Surfactant Complexes. <i>ACS Symposium Series</i> , 1994, , 320-336. | 0.5 | 25 |
| 70 | Protein-Polyelectrolyte Complexes. , 1994, , 247-271. | | 72 |
| 71 | Structural elucidation of soluble polyelectrolyte-micelle complexes: intra- vs interpolymer association. <i>Macromolecules</i> , 1993, 26, 2759-2766. | 2.2 | 89 |
| 72 | Electrophoretic and quasi-elastic light scattering of soluble protein-polyelectrolyte complexes. <i>The Journal of Physical Chemistry</i> , 1993, 97, 4528-4534. | 2.9 | 122 |

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|----|---|-----|-----------|
| 73 | Stoichiometric and Nonstoichiometric Complex Formation of Bovine Serum Albuminâ€™ Poly(dimethyldiallyl ammonium chloride). ACS Symposium Series, 1993, , 225-242. | 0.5 | 4 |
| 74 | Critical conditions for the binding of polyelectrolytes to small oppositely charged micelles. The Journal of Physical Chemistry, 1992, 96, 1973-1978. | 2.9 | 149 |
| 75 | Effects of protein charge heterogeneity in protein-polyelectrolyte complexation. Macromolecules, 1992, 25, 290-295. | 2.2 | 310 |
| 76 | Antimixing Micelles of Dimethyldodecylamineoxide and Nonionic Surfactants. ACS Symposium Series, 1992, , 234-242. | 0.5 | 1 |
| 77 | Dye solubilization in polyelectrolyteâ€™ micelle complexes. Journal of Colloid and Interface Science, 1991, 142, 512-517. | 5.0 | 59 |
| 78 | Protein Separation via Polyelectrolyte Complexation. ACS Symposium Series, 1990, , 66-79. | 0.5 | 19 |
| 79 | Binding of polyelectrolytes to oppositely charged ionic micelles at critical micelle surface charge densities. Langmuir, 1989, 5, 89-95. | 1.6 | 96 |
| 80 | Stoichiometry and coacervation of complexes formed between polyelectrolytes and mixed micelles. Colloids and Surfaces, 1985, 13, 113-124. | 0.9 | 41 |
| 81 | Charge-Induced Conformational Changes in Carboxymethylamylose. Macromolecules, 1975, 8, 831-842. | 2.2 | 25 |