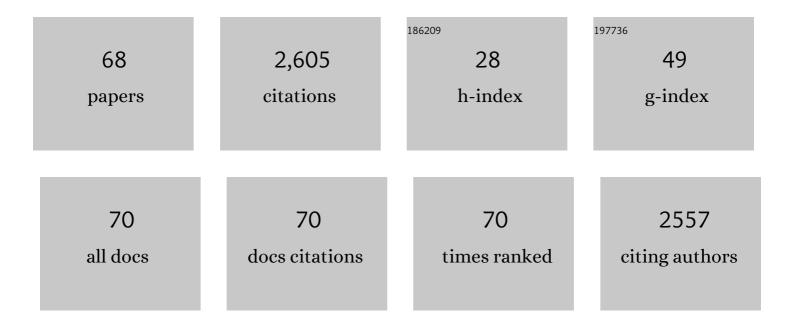
Todd M Przybycien

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Alternative bioseparation operations: life beyond packed-bed chromatography. Current Opinion in Biotechnology, 2004, 15, 469-478.	3.3	290
2	Precipitation of Proteins in Supercritical Carbon Dioxide. Journal of Pharmaceutical Sciences, 1996, 85, 586-594.	1.6	185
3	Protein unfolding at interfaces: Slow dynamics of α-helix to β-sheet transition. Proteins: Structure, Function and Bioinformatics, 2004, 56, 669-678.	1.5	144
4	Secondary structure characterization of ß-lactamase inclusion bodies. Protein Engineering, Design and Selection, 1994, 7, 131-136.	1.0	117
5	Coverage-Dependent Orientation of Lysozyme Adsorbed on Silica. Langmuir, 2003, 19, 3848-3857.	1.6	115
6	A Holistic Approach to Protein Secondary Structure Characterization Using Amide I Band Raman Spectroscopy. Analytical Biochemistry, 1999, 269, 255-272.	1.1	112
7	A Holistic Approach for Protein Secondary Structure Estimation from Infrared Spectra in H2O Solutions. Analytical Biochemistry, 2000, 285, 33-49.	1.1	109
8	Critical factors for high-performance physically adsorbed (dynamic) polymeric wall coatings for capillary electrophoresis of DNA. Electrophoresis, 2002, 23, 2766-2776.	1.3	85
9	The Conformation of the Poly(ethylene glycol) Chain in Mono-PEGylated Lysozyme and Mono-PEGylated Human Growth Hormone. Bioconjugate Chemistry, 2011, 22, 2317-2323.	1.8	80
10	Coadsorption of Sodium Dodecyl Sulfate with Hydrophobically Modified Nonionic Cellulose Polymers. 1. Role of Polymer Hydrophobic Modification. Langmuir, 2003, 19, 2705-2713.	1.6	69
11	Secondary Structure Characterization of Microparticulate Insulin Powdersâ€. Journal of Pharmaceutical Sciences, 1994, 83, 1651-1656.	1.6	67
12	Self-interaction chromatography: A tool for the study of protein-protein interactions in bioprocessing environments. , 2000, 52, 193-203.		61
13	Adsorption of a Formulated Protein on a Drug Delivery Device Surface. Journal of Colloid and Interface Science, 1997, 189, 216-228.	5.0	60
14	Adsorption of Poly(ethylene glycol)-Modified Lysozyme to Silica. Langmuir, 2005, 21, 1328-1337.	1.6	54
15	Poly(ethylene glycol)-Modified Proteins: Implications for Poly(lactide-co-glycolide)-Based Microsphere Delivery. AAPS Journal, 2009, 11, 88-98.	2.2	45
16	Protein purification with vapor-phase carbon dioxide. , 1999, 62, 247-258.		44
17	Surface Tension Gradient Driven Spreading on Aqueous Mucin Solutions: A Possible Route to Enhanced Pulmonary Drug Delivery. Molecular Pharmaceutics, 2011, 8, 387-394.	2.3	44
18	Protein structure perturbations on chromatographic surfaces. Journal of Chromatography A, 1999, 849, 149-159.	1.8	43

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19	Aggregation of lysozyme and of poly(ethylene glycol)-modified lysozyme after adsorption to silica. Colloids and Surfaces B: Biointerfaces, 2007, 57, 81-88.	2.5	40
20	Continuous precipitation for monoclonal antibody capture using countercurrent washing by microfiltration. Biotechnology Progress, 2019, 35, e2886.	1.3	39
21	Comparative coagulation performance study of Moringa oleifera cationic protein fractions with varying water hardness. Journal of Environmental Chemical Engineering, 2016, 4, 4690-4698.	3.3	35
22	Solubility-activity relationships in the inorganic salt-induced precipitation of α-chymotrypsin. Enzyme and Microbial Technology, 1989, 11, 264-276.	1.6	34
23	Adsorption of poly(ethylene glycol)-modified ribonuclease A to a poly(lactide-co-glycolide) surface. Biotechnology and Bioengineering, 2005, 90, 856-868.	1.7	34
24	Protein instability during HIC: Hydrogen exchange labeling analysis and a framework for describing mobile and stationary phase effects. Biotechnology and Bioengineering, 2007, 96, 80-93.	1.7	34
25	Metal affinity protein precipitation: Effects of mixing, protein concentration, and modifiers on protein fractionation. Biotechnology and Bioengineering, 1995, 48, 324-332.	1.7	33
26	Long-term and high-temperature storage of supercritically-processed microparticulate protein powders. Pharmaceutical Research, 1997, 14, 1370-1378.	1.7	33
27	Surfactant-induced Marangoni transport of lipids and therapeutics within the lung. Current Opinion in Colloid and Interface Science, 2018, 36, 58-69.	3.4	33
28	Coadsorption of Sodium Dodecyl Sulfate with Hydrophobically Modified Nonionic Cellulose Polymers. 2. Role of Surface Selectivity in Adsorption Hysteresis. Langmuir, 2003, 19, 2714-2721.	1.6	32
29	Protein PEGylation Attenuates Adsorption and Aggregation on a Negatively Charged and Moderately Hydrophobic Polymer Surface. Langmuir, 2010, 26, 18231-18238.	1.6	30
30	Aggregation kinetics in salt-induced protein precipitation. AICHE Journal, 1989, 35, 1779-1790.	1.8	28
31	Protein-protein interactions as a means of purification. Current Opinion in Biotechnology, 1998, 9, 164-170.	3.3	25
32	Effect of Flow on Human Serum Albumin Adsorption to Self-Assembled Monolayers of Varying Packing Density. Langmuir, 2003, 19, 5464-5474.	1.6	24
33	Self-Assembled Monolayers on Polymer Surfaces:Â Kinetics, Functionalization, and Photopatterning. Langmuir, 1999, 15, 5323-5328.	1.6	23
34	Quasi-Immiscible Spreading of Aqueous Surfactant Solutions on Entangled Aqueous Polymer Solution Subphases. ACS Applied Materials & Interfaces, 2013, 5, 5542-5549.	4.0	23
35	Dispersion in steady and time-oscillatory two-dimensional flows through a parallel-plate channel. Physics of Fluids, 2019, 31, 022007.	1.6	23
36	Enabling Marangoni flow at air-liquid interfaces through deposition of aerosolized lipid dispersions. Journal of Colloid and Interface Science, 2016, 484, 270-278.	5.0	19

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37	Autophobing on Liquid Subphases Driven by the Interfacial Transport of Amphiphilic Molecules. Langmuir, 2012, 28, 15212-15221.	1.6	18
38	A Model for Metal Affinity Protein Precipitation. Journal of Colloid and Interface Science, 1996, 177, 391-400.	5.0	17
39	Polyclonal and monoclonal IgG binding on protein A resins—Evidence of competitive binding effects. Biotechnology and Bioengineering, 2017, 114, 1803-1812.	1.7	17
40	Surfactant Driven Post-Deposition Spreading of Aerosols on Complex Aqueous Subphases. 1: High Deposition Flux Representative of Aerosol Delivery to Large Airways. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2015, 28, 382-393.	0.7	16
41	High throughput solubility and redissolution screening for antibody purification via combined <scp>PEG</scp> and zinc chloride precipitation. Biotechnology Progress, 2020, 36, e3041.	1.3	16
42	Electroless Gold Plating of 316 L Stainless Steel Beads. Journal of the Electrochemical Society, 1999, 146, 2517-2521.	1.3	15
43	Effect of polyelectrolyte–surfactant complexation on Marangoni transport at a liquid–liquid interface. Journal of Colloid and Interface Science, 2016, 467, 105-114.	5.0	15
44	Imaging the Postdeposition Dispersion of an Inhaled Surfactant Aerosol. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2012, 25, 290-296.	0.7	14
45	Transport of a partially wetted particle at the liquid/vapor interface under the influence of an externally imposed surfactant generated Marangoni stress. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2017, 521, 49-60.	2.3	14
46	Flow regime transitions and effects on solute transport in surfactant-driven Marangoni flows. Journal of Colloid and Interface Science, 2019, 553, 136-147.	5.0	14
47	Separation of PEGylated variants of ribonuclease A and apo-α-lactalbumin via reversed phase chromatography. Journal of Chromatography A, 2014, 1360, 209-216.	1.8	12
48	<i>Moringa oleifera</i> Seed Protein Adsorption to Silica: Effects of Water Hardness, Fractionation, and Fatty Acid Extraction. Langmuir, 2018, 34, 4852-4860.	1.6	12
49	Flowsheet simulation of aqueous twoâ€phase extraction systems for protein purification. Journal of Chemical Technology and Biotechnology, 2010, 85, 1575-1587.	1.6	11
50	Toward improving selectivity in affinity chromatography with <scp>PEG</scp> ylated affinity ligands: The performance of <scp>PEG</scp> ylated protein A. Biotechnology Progress, 2014, 30, 1364-1379.	1.3	11
51	Aerosolizing Lipid Dispersions Enables Antibiotic Transport Across Mimics of the Lung Airway Surface Even in the Presence of Pre-existing Lipid Monolayers. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2018, 31, 212-220.	0.7	11
52	Surfactant Driven Post-Deposition Spreading of Aerosols on Complex Aqueous Subphases. 2: Low Deposition Flux Representative of Aerosol Delivery to Small Airways. Journal of Aerosol Medicine and Pulmonary Drug Delivery, 2015, 28, 394-405.	0.7	10
53	Transient Marangoni transport of colloidal particles at the liquid/liquid interface caused by surfactant convective-diffusion under radial flow. Journal of Colloid and Interface Science, 2016, 462, 75-87.	5.0	10
54	Towards an electrochemically modulated chromatographic stationary phase. Journal of Chromatography A, 1995, 707, 29-33.	1.8	9

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55	Rheology of transient networks containing hydrophobically modified cellulose, anionic surfactant and colloidal silica: role of selective adsorption. Rheologica Acta, 2004, 43, 50-61.	1.1	9
56	Effect of humic acids on the kaolin coagulation performance of Moringa oleifera proteins. Journal of Environmental Chemical Engineering, 2018, 6, 4564-4572.	3.3	8
57	Enhanced filtration performance using <scp>feedâ€andâ€bleed</scp> configuration for purification of antibody precipitates. Biotechnology Progress, 2021, 37, e3082.	1.3	8
58	Towards optimal aqueous twoâ€phase extraction system flowsheets for protein purification. Journal of Chemical Technology and Biotechnology, 2013, 88, 62-71.	1.6	7
59	Coverage-dependent morphology of PEGylated lysozyme layers adsorbed on silica. Journal of Colloid and Interface Science, 2012, 370, 170-175.	5.0	5
60	Chemical modification of protein A chromatography ligands with polyethylene glycol. I: Effects on IgG adsorption equilibrium, kinetics, and transport. Journal of Chromatography A, 2018, 1546, 77-88.	1.8	5
61	A Prototype Electrochemical Chromatographic Column for Use with Proteins. Analytical Chemistry, 1999, 71, 4272-4277.	3.2	4
62	Evolution and disappearance of solvent drops on miscible polymer subphases. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2018, 546, 266-275.	2.3	4
63	Viral adventitious agent detection using laser force cytology: Intrinsic cell property changes with infection and comparison to in vitro testing. Biotechnology and Bioengineering, 2022, 119, 134-144.	1.7	4
64	Skin-Color-Compensated Colorimeter for Detection and Classification of Pressure Ulcers. , 2008, , .		3
65	Chemical modification of protein a chromatography ligands with polyethylene glycol. II: Effects on resin robustness and process selectivity. Journal of Chromatography A, 2018, 1546, 89-96.	1.8	3
66	Structural Response of Bovine Growth Hormone to Dead-Ended Ultrafiltration. Separation Science and Technology, 2003, 38, 251-270.	1.3	2
67	Design of acoustic wave biochemical sensors using micro-electro-mechanical systems. Journal of Applied Physics, 2007, 101, 064508.	1.1	2
68	The Impact of Formulated Interleukin-2 / Delivery Device Surface Interactions on Bioefficacy. Materials Research Society Symposia Proceedings, 1993, 331, 227.	0.1	0