Michael C Fitzgerald

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Chemoproteomic-enabled characterization of small GTPase Rab1a as a target of an <i>N</i> -arylbenzimidazole ligand's rescue of Parkinson's-associated cell toxicity. RSC Chemical Biology, 2022, 3, 96-111.	4.1	5
2	Bet v 1 and other birch allergens are more resistant to proteolysis and more abundant than other birch pollen proteins. Allergy: European Journal of Allergy and Clinical Immunology, 2022, 77, 1307-1309.	5.7	0
3	Discovery of the Xenon–Protein Interactome Using Large-Scale Measurements of Protein Folding and Stability. Journal of the American Chemical Society, 2022, 144, 3925-3938.	13.7	7
4	Protein Folding Stability Changes Across the Proteome Reveal Targets of Cu Toxicity in <i>E. coli</i> . ACS Chemical Biology, 2021, 16, 214-224.	3.4	26
5	Chemoproteomics for <i>Plasmodium</i> Parasite Drug Target Discovery. ChemBioChem, 2021, 22, 2591-2599.	2.6	8
6	Analysis of Brain Protein Stability Changes in Mouse Models of Normal Aging and α-Synucleinopathy Reveals Age- and Disease-Related Differences. Journal of Proteome Research, 2021, 20, 5156-5168.	3.7	4
7	Are allergens more abundant and/or more stable than other proteins in pollens and dust?. Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 1267-1269.	5.7	7
8	<i>Plasmodium</i> chaperonin TRiC/CCT identified as a target of the antihistamine clemastine using parallel chemoproteomic strategy. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 5810-5817.	7.1	37
9	Comparative Analysis of Mass-Spectrometry-Based Proteomic Methods for Protein Target Discovery Using a One-Pot Approach. Journal of the American Society for Mass Spectrometry, 2020, 31, 217-226.	2.8	22
10	Proteome-Wide Characterization of Phosphorylation-Induced Conformational Changes in Breast Cancer. Journal of Proteome Research, 2018, 17, 1129-1137.	3.7	14
11	Chemo-Selection Strategy for Limited Proteolysis Experiments on the Proteomic Scale. Analytical Chemistry, 2018, 90, 14039-14047.	6.5	18
12	Proteome-Wide Structural Biology: An Emerging Field for the Structural Analysis of Proteins on the Proteomic Scale. Journal of Proteome Research, 2018, 17, 3614-3627.	3.7	54
13	Chemical Denaturation and Protein Precipitation Approach for Discovery and Quantitation of Protein–Drug Interactions. Analytical Chemistry, 2018, 90, 9249-9255.	6.5	40
14	Discovery of Tamoxifen and <i>N</i> -Desmethyl Tamoxifen Protein Targets in MCF-7 Cells Using Large-Scale Protein Folding and Stability Measurements. Journal of Proteome Research, 2017, 16, 4073-4085.	3.7	24
15	Pathogenic Mutations Induce Partial Structural Changes in the Native β-Sheet Structure of Transthyretin and Accelerate Aggregation. Biochemistry, 2017, 56, 4808-4818.	2.5	20
16	Large-Scale Analysis of Breast Cancer-Related Conformational Changes in Proteins Using SILAC-SPROX. Journal of Proteome Research, 2017, 16, 3277-3286.	3.7	22
17	Are dust mite allergens more abundant and/or more stable than other Dermatophagoides pteronyssinus proteins?. Journal of Allergy and Clinical Immunology, 2017, 139, 1030-1032.e1.	2.9	15
18	Proteases of Dermatophagoides pteronyssinus. International Journal of Molecular Sciences, 2017, 18, 1204.	4.1	14

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19	Thermodynamic Analysis of the Geldanamycin–Hsp90 Interaction in a Whole Cell Lysate Using a Mass Spectrometry-Based Proteomics Approach. Journal of the American Society for Mass Spectrometry, 2016, 27, 1670-1676.	2.8	20
20	Targeted Mass Spectrometry-Based Approach for Protein–Ligand Binding Analyses in Complex Biological Mixtures Using a Phenacyl Bromide Modification Strategy. Analytical Chemistry, 2016, 88, 10987-10993.	6.5	11
21	Discovery of Age-Related Protein Folding Stability Differences in the Mouse Brain Proteome. Journal of Proteome Research, 2016, 15, 4731-4741.	3.7	22
22	Large-Scale Analysis of Breast Cancer-Related Conformational Changes in Proteins Using Limited Proteolysis. Journal of Proteome Research, 2016, 15, 4666-4674.	3.7	30
23	Discovery of Manassantin A Protein Targets Using Large-Scale Protein Folding and Stability Measurements. Journal of Proteome Research, 2016, 15, 2688-2696.	3.7	27
24	Characterization of the <i>Saccharomyces cerevisiae</i> ATP-Interactome using the iTRAQ-SPROX Technique. Journal of the American Society for Mass Spectrometry, 2016, 27, 233-243.	2.8	34
25	Global Analysis of Protein Folding Thermodynamics for Disease State Characterization. Journal of Proteome Research, 2015, 14, 2287-2297.	3.7	28
26	Synthesis and Biological Evaluation of Manassantin Analogues for Hypoxia-Inducible Factor $1\hat{I}\pm$ Inhibition. Journal of Medicinal Chemistry, 2015, 58, 7659-7671.	6.4	19
27	Stable Isotope Labeling with Amino Acids in Cell Culture (SILAC)-Based Strategy for Proteome-Wide Thermodynamic Analysis of Protein-Ligand Binding Interactions. Molecular and Cellular Proteomics, 2014, 13, 1800-1813.	3.8	53
28	SILAC-Pulse Proteolysis: A Mass Spectrometry-Based Method for Discovery and Cross-Validation in Proteome-Wide Studies of Ligand Binding. Journal of the American Society for Mass Spectrometry, 2014, 25, 2073-2083.	2.8	35
29	False-Positive Rate Determination of Protein Target Discovery using a Covalent Modification- and Mass Spectrometry-Based Proteomics Platform. Journal of the American Society for Mass Spectrometry, 2014, 25, 132-140.	2.8	11
30	Thermodynamic Analysis of Protein Folding and Stability Using a Tryptophan Modification Protocol. Analytical Chemistry, 2014, 86, 7041-7048.	6.5	24
31	Energetics-Based Methods for Protein Folding and Stability Measurements. Annual Review of Analytical Chemistry, 2014, 7, 209-228.	5.4	13
32	Thermodynamic analysis of protein-ligand binding interactions in complex biological mixtures using the stability of proteins from rates of oxidation. Nature Protocols, 2013, 8, 148-161.	12.0	96
33	Order out of Disorder: Working Cycle of an Intrinsically Unfolded Chaperone. Cell, 2012, 148, 947-957.	28.9	124
34	Slow Histidine H/D Exchange Protocol for Thermodynamic Analysis of Protein Folding and Stability Using Mass Spectrometry. Analytical Chemistry, 2012, 84, 1653-1660.	6.5	25
35	Mass Spectrometry- and Lysine Amidination-Based Protocol for Thermodynamic Analysis of Protein Folding and Ligand Binding Interactions. Analytical Chemistry, 2011, 83, 3555-3562.	6.5	23
36	Thermodynamic Analysis of Protein–Ligand Interactions in Complex Biological Mixtures using a Shotgun Proteomics Approach. Journal of Proteome Research, 2011, 10, 4948-4958.	3.7	61

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37	Stable Isotope Labeling Strategy for Protein–Ligand Binding Analysis in Multi-Component Protein Mixtures. Journal of the American Society for Mass Spectrometry, 2011, 22, 418-430.	2.8	11
38	Quantitative proteomics approach for identifying protein–drug interactions in complex mixtures using protein stability measurements. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9078-9082.	7.1	161
39	Discovery of Novel Cyclophilin A Ligands Using an H/D Exchange– and Mass Spectrometry–Based Strategy. Journal of Biomolecular Screening, 2010, 15, 1051-1062.	2.6	11
40	Mass Spectrometry-Based Thermal Shift Assay for Proteinâ^'Ligand Binding Analysis. Analytical Chemistry, 2010, 82, 5573-5581.	6.5	26
41	Thermodynamic Analysis of a Molecular Chaperone Binding to Unfolded Protein Substrates. Biochemistry, 2010, 49, 1346-1353.	2.5	8
42	Painting proteins with covalent labels: What's in the picture?. Journal of the American Society for Mass Spectrometry, 2009, 20, 1193-1206.	2.8	41
43	Hydrogen/Deuterium Exchange- and Protease Digestion-Based Screening Assay for Proteinâ^'Ligand Binding Detection. Analytical Chemistry, 2009, 81, 6860-6867.	6.5	12
44	Throughput and efficiency of a mass spectrometry-based screening assay for protein—Ligand binding detection. Journal of the American Society for Mass Spectrometry, 2008, 19, 1303-1311.	2.8	18
45	<i>Ex Vivo</i> Analysis of Synergistic Anion Binding to FbpA in Gram-Negative Bacteria. Biochemistry, 2008, 47, 4298-4305.	2.5	16
46	Thermodynamic Analysis of Protein Stability and Ligand Binding Using a Chemical Modification- and Mass Spectrometry-Based Strategy. Analytical Chemistry, 2008, 80, 4175-4185.	6.5	186
47	Chapter 6 Thermodynamic Analysis of Protein Folding and Ligand Binding by SUPREX. Comprehensive Analytical Chemistry, 2008, 52, 127-149.	1.3	1
48	Structural and thermodynamic characterization of a cytoplasmic dynein light chain intermediate chain complex. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 10028-10033.	7.1	116
49	H/D Exchange- and Mass Spectrometry-Based Strategy for the Thermodynamic Analysis of Proteinâ^'Ligand Binding. Analytical Chemistry, 2007, 79, 5869-5877.	6.5	42
50	H/D Exchange and Mass Spectrometry-Based Method for Biophysical Analysis of Multidomain Proteins at the Domain Level. Analytical Chemistry, 2007, 79, 8728-8739.	6.5	19
51	Mutational Analysis of Active Site Residues in the Staphylococcus aureus Transpeptidase SrtA. Biochemistry, 2007, 46, 7269-7278.	2.5	71
52	Direct Analysis of Backbone–Backbone Hydrogen Bond Formation in Protein Folding Transition States. Journal of Molecular Biology, 2006, 363, 506-519.	4.2	8
53	Total chemical synthesis of the B1 domain of protein L from Peptostreptococcus magnus. Bioorganic Chemistry, 2006, 34, 131-141.	4.1	3
54	Accuracy of SUPREX (stability of unpurified proteins from rates of H/D exchange) and MALDI mass spectrometry-derived protein unfolding free energies determined under non-EX2 exchange conditions. Journal of the American Society for Mass Spectrometry, 2006, 17, 1535-1542.	2.8	21

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55	Conserved thermodynamic contributions of backbone hydrogen bonds in a protein fold. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 2600-2604.	7.1	30
56	Characterising phase variations in MALDI-TOF data and correcting them by peak alignment. Cancer Informatics, 2005, 1, 117693510500100.	1.9	6
57	Thermodynamic Analysis of Subunit Interactions inEscherichia coliMolybdopterin Synthaseâ€. Biochemistry, 2005, 44, 2595-2601.	2.5	26
58	Protocol for the Thermodynamic Analysis of Some Proteins Using an H/D Exchange- and Mass Spectrometry-Based Technique. Analytical Chemistry, 2005, 77, 693-697.	6.5	18
59	Characterising phase variations in MALDI-TOF data and correcting them by peak alignment. Cancer Informatics, 2005, 1, 32-40.	1.9	7
60	Analysis of protein folding and function using backbone modified proteins. Bioorganic Chemistry, 2004, 32, 438-449.	4.1	44
61	SUPREX (Stability of Unpurified Proteins from Rates of H/D Exchange) Analysis of the Thermodynamics of Synergistic Anion Binding by Ferric-Binding Protein (FbpA), a Bacterial Transferrinâ€. Biochemistry, 2004, 43, 15767-15774.	2.5	39
62	Thermodynamic Analysis of Cyclosporin A Binding to Cyclophilin A in a Lung Tumor Tissue Lysate. Analytical Chemistry, 2004, 76, 4343-4348.	6.5	19
63	High-Throughput Screening Assay for the Tunable Selection of Protein Ligands. ACS Combinatorial Science, 2004, 6, 262-269.	3.3	43
64	The Protein Backbone Makes Important Contributions to 4-Oxalocrotonate Tautomerase Enzyme Catalysis: Understanding from Theory and Experimentâ€. Biochemistry, 2004, 43, 6885-6892.	2.5	64
65	Facile chemical synthesis and equilibrium unfolding properties of CopG. Protein Science, 2004, 13, 1918-1926.	7.6	8
66	The accuracy and precision of a new H/D exchange- and mass spectrometry-based technique for measuring the thermodynamic stability of proteins. Analytica Chimica Acta, 2003, 496, 225-232.	5.4	11
67	A New H/D Exchange- and Mass Spectrometry-Based Method for Thermodynamic Analysis of Protein-DNA Interactions. Chemistry and Biology, 2003, 10, 1205-1213.	6.0	27
68	Analysis of human serum proteins by liquid phase isoelectric focusing and matrix-assisted laser desorption/ionization-mass spectrometry. Proteomics, 2003, 3, 1661-1666.	2.2	38
69	Comparative Analysis of Two Different Amide-to-Ester Bond Mutations in the β-Sheet of 4-Oxalocrotonate Tautomeraseâ€. Biochemistry, 2003, 42, 6620-6630.	2.5	16
70	Accuracy and Precision of a New H/D Exchange- and Mass Spectrometry-Based Technique for Measuring the Thermodynamic Properties of Proteinâ^'Peptide Complexes. Biochemistry, 2003, 42, 4962-4970.	2.5	66
71	A General Mass Spectrometry-Based Assay for the Quantitation of Proteinâ^Ligand Binding Interactions in Solution. Journal of the American Chemical Society, 2002, 124, 10256-10257.	13.7	123
72	Thermodynamic stability measurements on multimeric proteins using a new H/D exchange- and matrix-assisted laser desorption/ionization (MALDI) mass spectrometry-based method. Protein Science, 2002, 11, 841-851.	7.6	51

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73	Measurements of Protein Stability by H/D Exchange and Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Using Picomoles of Material. Analytical Chemistry, 2001, 73, 3300-3304.	6.5	44
74	Guanidine-Induced Equilibrium Unfolding of a Homo-Hexameric Enzyme 4-Oxalocrotonate Tautomerase (4-OT)â€. Biochemistry, 2001, 40, 4493-4502.	2.5	15
75	The Energetic Contribution of Backboneâ^Backbone Hydrogen Bonds to the Thermodynamic Stability of a Hyperstable P22 Arc Repressor Mutant. Journal of the American Chemical Society, 2001, 123, 7709-7710.	13.7	34
76	A Solid Sample Preparation Method That Reduces Signal Suppression Effects in the MALDI Analysis of Peptides. Analytical Chemistry, 2001, 73, 625-631.	6.5	49
77	Identification of an Essential Backbone Amide Bond in the Folding and Stability of a Multimeric Enzyme. Journal of the American Chemical Society, 2000, 122, 8105-8111.	13.7	18
78	Concentration and Desalting of Protein Samples for Mass Spectrometry Analysis. Analytical Biochemistry, 1998, 262, 83-85.	2.4	39