

# Takashi Manabe

## List of Publications by Year in descending order

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106  
papers

1,758  
citations

218677  
26  
h-index

330143  
37  
g-index

108  
all docs

108  
docs citations

108  
times ranked

783  
citing authors

#	ARTICLE	IF	CITATIONS
1	Capillary electrophoresis of proteins for proteomic studies. <i>Electrophoresis</i> , 1999, 20, 3116-3121.	2.4	87
2	Effect of metal substitution on the chromophore of bovine serum amine oxidase. <i>Biochemistry</i> , 1983, 22, 1630-1635.	2.5	84
3	Effects of Linear Polyacrylamide Concentrations and Applied Voltages on the Separation of Oligonucleotides and DNA Sequencing Fragments by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 1994, 66, 4243-4252.	6.5	76
4	Normalization of Two-Dimensional Electrophoretic Patterns of Human Plasma Proteins and Comparisons of Cerebrospinal Fluid and Urine Patterns in Terms of the Normalized Map. <i>Journal of Biochemistry</i> , 1981, 89, 841-853.	1.7	75
5	Identification map of human plasma proteins: Micro two-dimensional electrophoresis followed by multiple immunoreplica technique. <i>Electrophoresis</i> , 1985, 6, 462-467.	2.4	71
6	A nondenaturing protein map of human plasma proteins correlated with a denaturing polypeptide map combining techniques of micro two-dimensional gel electrophoresis. <i>Electrophoresis</i> , 1999, 20, 830-835.	2.4	49
7	Roles of the two copper ions in bovine serum amine oxidase. <i>Biochemistry</i> , 1986, 25, 338-341.	2.5	42
8	Effects of catholytes on the mobilization of proteins after capillary isoelectric focusing. <i>Electrophoresis</i> , 1997, 18, 92-97.	2.4	40
9	Estimation of isoelectric points of human plasma proteins employing capillary isoelectric focusing and peptide isoelectric point markers. <i>Electrophoresis</i> , 2002, 23, 3385-3391.	2.4	40
10	Analysis of the activity and identification of enzymes after separation of cytosol proteins in mouse liver by microscale nondenaturing two-dimensional electrophoresis. <i>Proteomics</i> , 2003, 3, 2002-2007.	2.2	38
11	Analysis of human haptoglobin-hemoglobin complexes by micro two-dimensional electrophoresis. <i>Electrophoresis</i> , 1983, 4, 359-362.	2.4	37
12	An electroblotting apparatus for multiple replica technique and identification of human serum proteins on micro two-dimensional gels. <i>Analytical Biochemistry</i> , 1984, 143, 39-45.	2.4	37
13	Separation of human cerebrospinal fluid proteins by capillary isoelectric focusing in the absence of denaturing agents. <i>Electrophoresis</i> , 1999, 20, 3677-3683.	2.4	36
14	Systematic analysis of serum lipoproteins and apolipoproteins by a combined technique of micro two-dimensional electrophoresis. <i>Electrophoresis</i> , 1987, 8, 325-330.	2.4	35
15	Combination of electrophoretic techniques for comprehensive analysis of complex protein systems. <i>Electrophoresis</i> , 2000, 21, 1116-1122.	2.4	34
16	Assignment of human plasma polypeptides on a nondenaturing 2-D gel using MALDI-MS and PMF and comparisons with the results of intact protein mapping. <i>Electrophoresis</i> , 2007, 28, 843-863.	2.4	34
17	Direct targeting of human plasma for matrix-assisted laser desorption/ionization and analysis of plasma proteins by time of flight-mass spectrometry. <i>Electrophoresis</i> , 2005, 26, 2823-2834.	2.4	31
18	Separation of human plasma/serum proteins by capillary isoelectric focusing in the absence of denaturing agents. <i>Electrophoresis</i> , 1997, 18, 1159-1165.	2.4	30

#	ARTICLE	IF	CITATIONS
19	Analysis of complex protein-polypeptide systems for proteomic studies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 787, 29-41.	2.3	30
20	Rapid Separation of Microorganisms by Quartz Microchip Capillary Electrophoresis. Analytical Sciences, 2005, 21, 57-60.	1.6	29
21	High-efficiency protein extraction from polyacrylamide gels for molecular mass measurement by matrix-assisted laser desorption/ionization-time of flight-mass spectrometry. Electrophoresis, 2005, 26, 1019-1028.	2.4	29
22	Identification of mouse serum proteins increased by the administration of antitumor polysaccharide lentinan, by micro two-dimensional electrophoresis. Electrophoresis, 1983, 4, 242-246.	2.4	28
23	Automated two-dimensional liquid chromatographic system for mapping proteins in highly complex mixtures. Journal of Chromatography A, 1991, 588, 115-123.	3.7	28
24	A new intermediate in the reoxidation of reduced human ceruloplasmin. FEBS Letters, 1972, 23, 268-270.	2.8	26
25	Detection of $\alpha$ -amylase isoenzymes by means of two-dimensional electrophoresis followed by blue starch staining. Electrophoresis, 1983, 4, 427-431.	2.4	26
26	Size separation of sodium dodecyl sulfate complexes of human plasma proteins by capillary electrophoresis employing linear polyacrylamide as a sieving polymer. Electrophoresis, 1998, 19, 2308-2316.	2.4	26
27	Fully automated capillary isotachopheresis of proteins. Electrophoresis, 1989, 10, 172-177.	2.4	25
28	Spectroscopic aspects of copper binding site in bovine serum amine oxidase. FEBS Letters, 1980, 116, 17-20.	2.8	24
29	Quantitative analysis of two-dimensional electropherograms with a television camera-microcomputer system. Journal of Chromatography A, 1983, 264, 435-443.	3.7	24
30	Identification of bovine fetal and adult serum/plasma proteins by two-dimensional electrophoresis and immunochemical staining. Electrophoresis, 1987, 8, 573-579.	2.4	20
31	Separation of Extremely Acidic Proteins, S-100 Proteins and Calmodulin, in Some Bovine Tissues and Mammalian Brains by Two-Dimensional Electrophoresis in the Absence of Denaturing Agents. Journal of Biochemistry, 1982, 91, 1009-1015.	1.7	19
32	Capillary electrophoresis of nucleic acids with a fully automated apparatus. Journal of Chromatography A, 1989, 480, 331-338.	3.7	19
33	Apparatus for coupled high-performance liquid chromatography and capillary electrophoresis in the analysis of complex protein mixtures. Journal of Chromatography A, 1990, 515, 659-666.	3.7	19
34	Two-Dimensional Electrophoresis of Immunoglobulin Myeloma Proteins in the Absence of Denaturing Agents <sup>1</sup> . Journal of Biochemistry, 1980, 87, 451-464.	1.7	18
35	Sodium dodecyl sulfate-gel electrophoresis of proteins employing short capillaries. Electrophoresis, 1995, 16, 1468-1473.	2.4	18
36	Gel permeation chromatography combined with capillary electrophoresis for microanalysis of proteins. Journal of Chromatography A, 1989, 480, 277-283.	3.7	17

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37	Detection of protein-protein interactions and a group of immunoglobulin G-associated minor proteins in human plasma by nondenaturing and denaturing two-dimensional gel electrophoresis. <i>Proteomics</i> , 2003, 3, 832-846.	2.2	17
38	Nondenaturing two-dimensional electrophoresis enzyme profile involving activity and sequence structure of cytosol proteins from mouse liver. <i>Proteomics</i> , 2004, 4, 1406-1411.	2.2	17
39	Analysis of protein/polypeptide interactions in human plasma using nondenaturing micro-2-DE followed by 3-D SDS-PAGE and MS. <i>Electrophoresis</i> , 2007, 28, 2065-2079.	2.4	17
40	Molecular Weight Estimation of Bovine Brain Mitochondrial Monoamine Oxidase. <i>Journal of Biochemistry</i> , 1977, 82, 1533-1539.	1.7	16
41	Detection of the changes in protein distribution of rat plasma induced by carbon tetrachloride administration by means of two-dimensional electrophoresis. <i>Biomedical Applications</i> , 1981, 225, 65-71.	1.7	16
42	Performance of agarose IEF gels as the first dimension support for nonâ€denaturing microâ€2â€DE in the separation of highâ€molecularâ€mass plasma proteins and protein complexes. <i>Electrophoresis</i> , 2009, 30, 939-948.	2.4	16
43	Preparation and Characterization of Cobalt(II)-Substituted Bovine Serum Amine Oxidase1. <i>Journal of Biochemistry</i> , 1981, 90, 905-908.	1.7	15
44	Psb30 contributes to structurally stabilise the Photosystem II complex in the thermophilic cyanobacterium <i>Thermosynechococcus elongatus</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 1546-1554.	1.0	15
45	Simultaneous analysis of esterase and transferase activities in cytosol proteins from the bovine retina by using microscale non-denaturing two-dimensional electrophoresis. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2004, 1696, 51-57.	2.3	14
46	Analysis of <i>E. coli</i> soluble proteins by nonâ€denaturing micro 2â€DE/3â€DE and MALDIâ€MSâ€PMF. <i>Electrophoresis</i> , 2010, 31, 2740-2748.	2.4	14
47	Two-dimensional separation system for analysis of proteins employing isoelectric focusing and high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 1982, 239, 565-570.	3.7	13
48	High-resolution separation of oligonucleotides and DNA sequencing reaction products by capillary electrophoresis with linear polyacrylamide and laser-induced fluorescence detection. <i>Journal of Separation Science</i> , 1994, 6, 539-543.	1.0	13
49	Differences in protein distribution between human plasma preparations, EDTAâ€plasma and heparinâ€plasma, analyzed by nonâ€denaturing microâ€2â€DE and MALDIâ€MS PMF. <i>Electrophoresis</i> , 2009, 30, 931-938.	2.4	13
50	Native protein mapping and visualization of protein interactions in the area of human plasma highâ€density lipoprotein by combining nondenaturing micro 2<sc>DE</sc> and quantitative <sc>LC</sc>â€<sc>MS</sc>/<sc>MS</sc>. <i>Electrophoresis</i> , 2014, 35, 2055-2064.	2.4	12
51	Kinetic Studies on the Aerobic Oxidation of Reduced Human Ceruloplasmin. <i>Journal of Biochemistry</i> , 1973, 73, 1169-1174.	1.7	11
52	Noncovalent interactions in human plasma proteins analyzed by the comparison of nondenaturing and denaturing microâ€2â€D gel electrophoresis patterns after polypeptide assignment using matrixâ€assisted laser desorption/ionizationâ€mass spectrometry and peptide mass fingerprinting. <i>Electrophoresis</i> , 2008, 29, 2672-2688.	2.4	11
53	Performance of nondenaturing micro 2-DE followed by third-dimension SDS-PAGE in the analysis of <i>Escherichia coli</i> soluble proteins. <i>Electrophoresis</i> , 2011, 32, 300-309.	2.4	10
54	Kinetic studies of ceruloplasmin-azide interaction. <i>FEBS Letters</i> , 1971, 16, 201-203.	2.8	9

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55	COPPER BINDING SITE IN SERUM AMINE OXIDASE TREATED WITH SODIUM DIETHYLDITHIOCARBAMATE. Chemistry Letters, 1982, 11, 487-490.	1.3	9
56	Correlation of plasma protein separation patterns obtained by two-dimensional polyacrylamide gel electrophoresis and by capillary electrophoresis. Electrophoresis, 1998, 19, 1319-1324.	2.4	9
57	Selection of an effective enzyme for digestion of non-denaturing proteins using microscale two-dimensional electrophoresis. Clinica Chimica Acta, 2000, 302, 221-224.	1.1	9
58	Detection of activity and mass spectrometric identification of mouse liver carboxylesterase and aldehyde dehydrogenase separated by non-denaturing two-dimensional electrophoresis after extraction with detergents. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2005, 1749, 95-101.	2.3	9
59	Proteomic analysis of cellular soluble proteins from human bronchial smooth muscle cells by combining nondenaturing micro 2DE and quantitative LC-MS/MS. 1. Preparation of more than 4000 native protein maps. Electrophoresis, 2015, 36, 1711-1723.	2.4	9
60	A complex formation of the adrenal iron-sulfur protein (adrenodoxin) with cytochrome C and the decomposition of the iron-sulfur center. FEBS Letters, 1974, 47, 113-116.	2.8	8
61	Amino acid microanalysis of proteins extracted from spot of fixed, stained, two-dimensional gels. Journal of Chromatography A, 1982, 241, 361-370.	3.7	8
62	High-performance affinity chromatography of human serum concanavalin A binding proteins. Biomedical Applications, 1988, 431, 45-54.	1.7	8
63	Alkaline cleavage of covalent bonds in chicken insulin and bovine $\gamma$ -lactalbumin analyzed by matrix-assisted laser desorption/ionization- mass spectrometry. Electrophoresis, 2005, 26, 257-267.	2.4	8
64	Alkaline extraction of human plasma proteins from nondenaturing micro-2-D gels for protein/polypeptide mass measurement and peptide mass fingerprinting using MALDI-TOF MS. Electrophoresis, 2007, 28, 449-459.	2.4	8
65	Proteomic analysis of cellular soluble proteins from human bronchial smooth muscle cells by combining nondenaturing micro 2DE and quantitative LC-MS/MS. 2. Similarity search between protein maps for the analysis of protein complexes. Electrophoresis, 2015, 36, 1991-2001.	2.4	8
66	Simple quantification of Cu,Zn-superoxide dismutase activity after separation by non-denaturing isoelectric focusing. Biochimica Et Biophysica Acta - General Subjects, 2002, 1571, 245-248.	2.4	7
67	Analysis of PEG-fractionated high-molecular-mass proteins in human plasma by non-denaturing micro 2-DE and MALDI-MS PMF. Electrophoresis, 2009, 30, 3613-3621.	2.4	7
68	Analysis of low-density lipoprotein-associated proteins using the method of digitized native protein mapping. Electrophoresis, 2016, 37, 2063-2074.	2.4	7
69	A comparative analysis of human plasma and serum proteins by combining native PAGE, whole-gel slicing and quantitative LC-MS/MS: Utilizing native MS-electropherograms in proteomic analysis for discovering structure and interaction-correlated differences. Electrophoresis, 2017, 38, 3111-3123.	2.4	7
70	Comparison of the performance of 1D SDS-PAGE with nondenaturing 2DE on the analysis of proteins from human bronchial smooth muscle cells using quantitative LC-MS/MS. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2019, 1105, 193-202.	2.3	7
71	Removal of specific protein spots on the patterns of non-denaturing two-dimensional electrophoresis using protein A agarose and antibodies. Journal of Proteomics, 1998, 37, 1-4.	2.4	6
72	Analysis of hydrolytic activity of phospholipase C $\pm$ from porcine retina on retinyl ester and phosphatidylcholine using non-denaturing two-dimensional electrophoresis and mass spectrometry. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2006, 843, 42-46.	2.3	6

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73	Cleavage of fibrinogen alpha chains during isoelectric focusing of human plasma under non-denaturing conditions analyzed by micro two-dimensional gel electrophoresis and matrix-assisted laser desorption/ionization mass spectrometry. <i>Journal of Electrophoresis</i> , 2007, 51, 27-34.	0.4	6
74	Staining of serum concanavalin a-binding proteins after micro two-dimensional electrophoresis and blotting. <i>Biomedical Applications</i> , 1987, 423, 115-122.	1.7	5
75	Studies on the procedure for the construction of cellular protein databases employing micro two-dimensional electrophoresis: An HL-60 protein database. <i>Electrophoresis</i> , 1995, 16, 407-422.	2.4	5
76	Effect of photooxidation of bacterial liquefying $\hat{\text{I}}\pm$ -amylase dependent on the degree of polymerization of linear substrates. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 1974, 341, 497-504.	2.6	4
77	Chemical reactivity of labile sulfur of iron-sulfur proteins The reaction of triphenyl phosphine. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 1976, 428, 312-320.	2.4	4
78	High performance-multisample analysis of proteins by micro-slab polyacrylamide gel electrophoresis.. <i>Bunseki Kagaku</i> , 1985, 34, 151-156.	0.2	4
79	Proteome analysis of cashmere. <i>Animal Science Journal</i> , 2004, 75, 401-405.	1.4	4
80	Two-dimensional polyacrylamide gel electrophoresis of plasma proteins. <i>Seibutsu Butsuri Kagaku</i> , 1978, 22, 171-177.	0.1	4
81	Regulation of IL-27p28 gene by lipopolysaccharide in dendritic DC2.4 cells. <i>Biochemical and Biophysical Research Communications</i> , 2006, 349, 1372-1377.	2.1	3
82	Immunochemical detection of plasma proteins after two-dimensional electrophoresis. <i>Seibutsu Butsuri Kagaku</i> , 1979, 22, 279-284.	0.1	3
83	Analysis of $\hat{\text{I}}\pm$ -amylase in human body fluids by two-dimensional electrophoresis. <i>Seibutsu Butsuri Kagaku</i> , 1981, 24, 319-325.	0.1	3
84	Title is missing!. <i>Seibutsu Butsuri Kagaku</i> , 1984, 28, 183-188.	0.1	3
85	Isotachopheresis of monoclonal gammopathy(IgG type) serum.. <i>Seibutsu Butsuri Kagaku</i> , 1988, 32, 295-301.	0.1	3
86	High performance isotachopheresis of proteins.. <i>Seibutsu Butsuri Kagaku</i> , 1988, 32, 33-38.	0.1	3
87	Quantitation of human plasma proteins separated on non-denaturing 2-D gels by image analysis.. <i>Seibutsu Butsuri Kagaku</i> , 2000, 44, 1-7.	0.1	3
88	Determination of masked $\langle \text{I} \rangle \text{N} \langle \text{I} \rangle$ -terminus of peptides by isotachopheresis. <i>Bunseki Kagaku</i> , 1977, 26, 621-625.	0.2	2
89	Analytical Chemistry related to Biofunctional Research. Enzyme activity analysis of soluble proteins using non-denaturing two-dimensional electrophoresis.. <i>Bunseki Kagaku</i> , 2002, 51, 367-371.	0.2	2
90	Simultaneous speculation of 401 monomeric or homo-oligomeric subunit structures of human cellular proteins, mining the information in 1901 native 2D protein maps reconstructed from one nondenaturing 2DE gel. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1144, 122104.	2.3	2

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91	Two-Dimensional Electrophoresis of Bovine Brain Proteins - Soluble and Insoluble Fractions. , 1984, , 263-270.		1
92	Protein spot recognition on the non-denaturing and denaturing two-dimensional electrophoresis patterns using in situ immunosubtraction via Protein A agarose and antibodies. Journal of Proteomics, 1999, 39, 179-184.	2.4	1
93	Determination of Perchlorate in Biological Samples by Capillary Electrophoresis. Bunseki Kagaku, 2007, 56, 675-678.	0.2	1
94	Visualized heterooligomeric subunit structures of 817 human cellular proteins by correlating native protein 2D maps with protein interaction databases. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2021, 1163, 122509.	2.3	1
95	Analysis of urinary proteins from patients of renal disease by miro two-dimensional electrophoresis. Seibutsu Butsuri Kagaku, 1984, 28, 159-165.	0.1	1
96	An apparatus for fractionation of proteins by isoelectric focusing without support.. Bunseki Kagaku, 1981, 30, 26-30.	0.2	0
97	The active site of bovine serum amine oxidase. Inorganica Chimica Acta, 1983, 79, 132-133.	2.4	0
98	Spectroscopic studies on bovine serum amine oxidase anaerobically treated with benzylamine. Pharmacological Research Communications, 1988, 20, 153-154.	0.2	0
99	Differences in Cellular Proteins between High and Low Metastatic Potential Sublines from the Methylcholanthrene-Induced Rat Fibrosarcoma Cell Line. Oncology, 1992, 49, 143-146.	1.9	0
100	3TP2-02 The substitution of D1:3 for D1:1 in Photosystem II of Thermosychnococcus elongatus results in a structurally more stable complex.(The 47th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2009, 49, S60.	0.1	0
101	Developments of High-Performance Information-Collecting System in Proteomics.. Seibutsu Butsuri Kagaku, 2003, 47, 23-26.	0.1	0
102	Concentration and separation of low-abundant proteins in human plasma by ammonium sulfate fractionation followed by a three-step electrophoresis technique. Seibutsu Butsuri Kagaku, 2004, 48, 59-66.	0.1	0
103	Possibilities of micro gel isoelectric focusing.. Seibutsu Butsuri Kagaku, 2008, 52, 101-106.	0.1	0
104	Assignment of human plasma proteins on non-denaturing micro 2-DE gels using MALDI-MS. Seibutsu Butsuri Kagaku, 2010, 54, 31-34.	0.1	0
105	Analysis of cellular proteins combining non-denaturing micro 2-DE and quantitative LC-MS/MS. Seibutsu Butsuri Kagaku, 2012, 58, 15-17.	0.1	0
106	Protein analysis by capillary electrophoresis: Present and future.. Seibutsu Butsuri Kagaku, 1996, 40, 155-159.	0.1	0