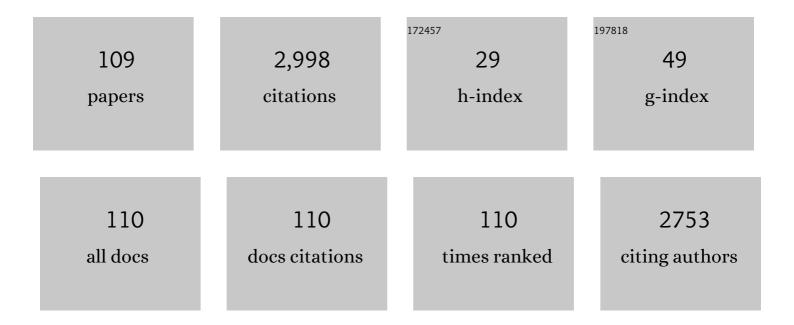
Hiroyuki Matsumoto

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Improving the Solubility and Pharmacological Efficacy of Curcumin by Heat Treatment. Assay and Drug Development Technologies, 2007, 5, 567-576.	1.2	266
2	Friedreich-like ataxia with retinitis pigmentosa caused by the His101Gln mutation of the ?-Tocopherol transfer protein gene. Annals of Neurology, 1997, 41, 826-832.	5.3	137
3	Existence of a \hat{I}^2 -ionone ring-binding site in the rhodopsin molecule. Nature, 1975, 258, 523-526.	27.8	116
4	Phosrestin I undergoes the earliest light-induced phosphorylation by a calcium/calmodulin-dependent protein kinase in drosophila photoreceptors. Neuron, 1994, 12, 997-1010.	8.1	111
5	Synthesis and properties of 12-fluororetinal and 12-fluororhodopsin. Model system for fluorine-19 NMR studies of visual pigments. Journal of the American Chemical Society, 1981, 103, 7195-7201.	13.7	75
6	Proteome profiling of vitreoretinal diseases by cluster analysis. Proteomics - Clinical Applications, 2008, 2, 1265-1280.	1.6	74
7	Accessibility of the iodopsin chromophore. Biochimica Et Biophysica Acta - General Subjects, 1975, 404, 300-308.	2.4	68
8	Fluorescence-Labeled Peptide pIMarkers for Capillary Isoelectric Focusing. Analytical Chemistry, 2002, 74, 1046-1053.	6.5	64
9	Proteomics study of neuropathic and nonneuropathic dorsal root ganglia: altered protein regulation following segmental spinal nerve ligation injury. Physiological Genomics, 2007, 29, 215-230.	2.3	64
10	New geometric isomers of vitamin A and carotenoids. 6. Fluorinated rhodopsin analogs from 10-fluoro- and 14-fluororetinal. Journal of the American Chemical Society, 1978, 100, 5957-5960.	13.7	62
11	Calcium/Calmodulinâ€Đependent Kinase II Phosphorylates <i>Drosophila</i> Visual Arrestin. Journal of Neurochemistry, 1997, 68, 169-175.	3.9	60
12	Identification of 4-hydroxynonenal-modified retinal proteins induced by photooxidative stress prior to retinal degeneration. Free Radical Biology and Medicine, 2006, 41, 1847-1859.	2.9	60
13	Recognition of opsin to the longitudinal length of retinal isomers in the formation of rhodopsin. Vision Research, 1978, 18, 607-609.	1.4	57
14	Accuracy in the Determination of Isoelectric Points of Some Proteins and a Peptide by Capillary Isoelectric Focusing:Â Utility of Synthetic Peptides as Isoelectric Point Markers. Analytical Chemistry, 2000, 72, 4747-4757.	6.5	57
15	Efficient extraction of proteins from formalin-fixed paraffin-embedded tissues requires higher concentration of tris(hydroxymethyl)aminomethane. Clinical Proteomics, 2014, 11, 4.	2.1	57
16	Synthetic oligopeptides as isoelectric point markers for capillary isoelectric focusing with ultraviolet absorption detection. Electrophoresis, 2000, 21, 603-610.	2.4	56
17	Characterization of mammalian synemin, an intermediate filament protein present in all four classes of muscle cells and some neuroglial cells: co-localization and interaction with type III intermediate filament proteins and keratins. Cell and Tissue Research, 2003, 313, 195-207.	2.9	54
18	Electrostatic interaction between retinylidene chromophore and opsin in rhodopsin studied by fluorinated rhodopsin analogs. Biochemistry, 1987, 26, 4422-4428.	2.5	46

#	Article	IF	CITATIONS
19	Phosrestins I and II: Arrestin homologs which undergo differential light-induced phosphorylation in the Drosophila photoreceptor in vivo. Biochemical and Biophysical Research Communications, 1991, 177, 1306-1312.	2.1	45
20	Autoantibodies against HSP70 family proteins were detected in the cerebrospinal fluid from patients with multiple sclerosis. Journal of the Neurological Sciences, 2006, 241, 39-43.	0.6	45
21	Effect of digitonin concentration on regeneration of cattle rhodopsin. Biochimica Et Biophysica Acta - Bioenergetics, 1978, 501, 257-268.	1.0	40
22	Photochemical studies of 7-cis-rhodopsin at low temperatures. Nature and properties of the bathointermediate. Biochemistry, 1980, 19, 1549-1553.	2.5	40
23	Prevalence of anti-heat shock protein antibodies in cerebrospinal fluids of patients with Guillain–Barré syndrome. Journal of Neuroimmunology, 2004, 156, 204-209.	2.3	39
24	The First Case of Polymyositis Associated with Interferon Therapy Internal Medicine, 1994, 33, 806-808.	0.7	38
25	Phosphorylation of the γ Subunit of the Retinal Photoreceptor cGMP Phosphodiesterase by the cAMP-Dependent Protein Kinase and Its Effect on the γ Subunit Interaction with Other Proteinsâ€. Biochemistry, 1998, 37, 6205-6213.	2.5	35
26	Doubly hindered 7,11-dicis isomers of retinal. Synthesis, properties, and interaction with cattle opsin. Journal of the American Chemical Society, 1979, 101, 5078-5079.	13.7	33
27	Determination of Protein Molecular Weights on SDS-PAGE. Methods in Molecular Biology, 2019, 1855, 101-105.	0.9	33
28	Circadian proteomics of the mouse retina. Proteomics, 2007, 7, 3500-3508.	2.2	32
29	Longitudinal restrictions of the binding site of opsin as measured with retinal isomers and analogs. Journal of the American Chemical Society, 1980, 102, 4259-4262.	13.7	31
30	Photosensitivity of 10-substituted visual pigment analogues: detection of a specific secondary opsin-retinal interaction. Biochemistry, 1986, 25, 7026-7030.	2.5	31
31	Nonradioactive Phosphopeptide Assay by Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry: Application to Calcium/Calmodulin-Dependent Protein Kinase II. Analytical Biochemistry, 1998, 260, 188-194.	2.4	29
32	Phosphopeptide Sequencing by In-Source Decay Spectrum in Delayed Extraction Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. Analytical Biochemistry, 2000, 277, 177-186.	2.4	29
33	[33] Ocular proteomics: Cataloging photoreceptor proteins by two-dimensional gel electrophoresis and mass spectrometry. Methods in Enzymology, 2000, 316, 492-511.	1.0	29
34	Prolidase deficiency and the biochemical assays used in its diagnosis. Analytical Biochemistry, 2006, 349, 165-175.	2.4	29
35	Seven new hindered isomeric rhodopsins. Tetrahedron, 1984, 40, 473-482.	1.9	28
36	Residues within the Polycationic Region of cGMP Phosphodiesterase γ Subunit Crucial for the Interaction with Transducin α Subunit. Journal of Biological Chemistry, 1997, 272, 15856-15864.	3.4	27

#	Article	IF	CITATIONS
37	Protein Identification on Two-Dimensional Gels Archived Nearly Two Decades Ago by In-Gel Digestion and Matrix-Assisted Laser Desorption Ionization Time-of-Flight Mass Spectrometry. Analytical Biochemistry, 1999, 270, 176-179.	2.4	27
38	Synthesis of d-labeled N-alkylmaleimides and application to quantitative peptide analysis by isotope differential mass spectrometry. Bioorganic and Medicinal Chemistry Letters, 2001, 11, 2257-2261.	2.2	27
39	Retinophilin Is a Light-Regulated Phosphoprotein Required to Suppress Photoreceptor Dark Noise in Drosophila. Journal of Neuroscience, 2010, 30, 1238-1249.	3.6	27
40	Assay of trypsin activity by capillary isoelectric focusing with laser-induced fluorescence detection. Electrophoresis, 1998, 19, 2296-2300.	2.4	26
41	Initiating Ocular Proteomics for Cataloging Bovine Retinal Proteins: Microanalytical Techniques Permit the Identification of Proteins Derived from a Novel Photoreceptor Preparation. Experimental Eye Research, 1999, 69, 195-212.	2.6	26
42	Immunoassay of serum α1-antitrypsin by affinity-probe capillary isoelectric focusing using a fluorescence-labeled recombinant antibody fragment. Electrophoresis, 2002, 23, 909-917.	2.4	26
43	Monitoring of sterilization in an oxygen plasma apparatus, employing a quartz crystal microbalance (QCM) method. Vacuum, 2013, 93, 84-89.	3.5	26
44	Effect of humidity on the production of ozone and other radicals by low-pressure mercury lamps. Journal of Photochemistry and Photobiology A: Chemistry, 2014, 274, 13-19.	3.9	26
45	Successful Treatment of Cerebral Aspergillosis with a High Oral Dose of Itraconazole after Excisional Surgery Internal Medicine, 1999, 38, 829-832.	0.7	24
46	Proteomic trajectory mapping of biological transformation: Application to developmental mouse retina. Proteomics, 2006, 6, 3251-3261.	2.2	24
47	Medaka fish, Oryzias latipes, as a model for human obesity-related glomerulopathy. Biochemical and Biophysical Research Communications, 2013, 431, 712-717.	2.1	24
48	Epsin-mediated degradation of IP3R1 fuels atherosclerosis. Nature Communications, 2020, 11, 3984.	12.8	24
49	Antibodies againstHelicobacter pyloriwere detected in the cerebrospinal fluid obtained from patients with guillain-barré syndrome. Annals of Neurology, 1998, 44, 686-688.	5.3	23
50	Proteomics Profiling of the Cone Photoreceptor Cell Line, 661W. Advances in Experimental Medicine and Biology, 2008, 613, 301-311.	1.6	23
51	Degree of modification of Ro60 by the lipid peroxidation by-product 4-hydroxy-2-nonenal may differentially induce Sjögren syndrome or systemic lupus erythematosus in BALB/c mice. Free Radical Biology and Medicine, 2011, 50, 1222-1233.	2.9	23
52	Highly sensitive multistage mass spectrometry enables small-scale analysis of protein glycosylation from two-dimensional polyacrylamide gels. Electrophoresis, 2006, 27, 1394-1406.	2.4	22
53	Active oxygen sensors used a quartz crystal microbalance (QCM) with sputter-coated and spin-coated poly(tetrafluoroethylene) thin films. Sensors and Actuators B: Chemical, 2012, 171-172, 769-776.	7.8	22
54	9,11-Di-cis-retinal and 9,11-di-cis-rhodopsin. Bioorganic Chemistry, 1980, 9, 406-410.	4.1	21

Ηιγογικι Ματςυμοτο

#	Article	IF	CITATIONS
55	Novel eyeâ€specific calmodulin methylation characterized by protein mapping in <i>Drosophila melanogaster</i> . Proteomics, 2007, 7, 2651-2658.	2.2	21
56	Study of urinary mandelic acid concentration and peripheral nerve conduction among styrene workers. American Journal of Industrial Medicine, 1996, 30, 41-47.	2.1	20
57	Quantitative proteome analysis using D-labeled N-ethylmaleimide and 13C-labeled iodoacetanilide by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Bioorganic and Medicinal Chemistry, 2006, 14, 8197-8209.	3.0	20
58	Study of the shape of the binding site of bovine opsin using 10-substituted retinal isomers. Biochemistry, 1986, 25, 7021-7026.	2.5	19
59	7-cis-PORPHYROPSIN FROM 7-cis-3-DEHYDRORETINAL AND CATTLE OPSIN. Photochemistry and Photobiology, 1979, 29, 695-698.	2.5	18
60	Determination of prolidase activity using matrix-assisted laser desorption/ionization time-of-flight mass spectrometry. Analytical Biochemistry, 2004, 331, 224-229.	2.4	18
61	Mobility Moment Analysis of Molecular Interactions by Capillary Electrophoresis. Analytical Chemistry, 2005, 77, 564-572.	6.5	18
62	Toward a tripartite model of L2 reading strategy use, motivations, and learner beliefs. System, 2013, 41, 38-49.	3.4	18
63	The phosphorylation site and desmethionyl N-terminus of Drosophila phosrestin I in vivo determined by mass spectrometric analysis of proteins separated by two-dimensional gel electrophoresis. European Journal of Mass Spectrometry, 1997, 3, 367.	0.7	17
64	Transgenic Bcl-2 Expressed in Photoreceptor Cells Confers Both Death-sparing and Death-inducing Effects. Experimental Eye Research, 2001, 73, 711-721.	2.6	17
65	Cervical Dural Arteriovenous Malformation Presenting With Right-Sided Occipitalgia: Before and After Successful Treatment by Embolization. Headache, 1994, 34, 234-236.	3.9	16
66	Separation of Phosphopeptides from Their Nonphosphorylated Forms by Reversed-Phase POROS Perfusion Chromatography at Alkaline pH. Analytical Biochemistry, 1997, 251, 116-119.	2.4	15
67	Estimation of the Deamidation Rates of Major Deamidation Sites in a Fab Fragment of Mouse IgG1-κ by Capillary Isoelectric Focusing of Mutated Fab Fragments. Analytical Chemistry, 2013, 85, 1705-1710.	6.5	15
68	Extracellular vesicles from human bone marrow mesenchymal stem cells repair organ damage caused by cadmium poisoning in a medaka model. Physiological Reports, 2019, 7, e14172.	1.7	15
69	Synthesis of 13C-Labeled iodoacetanilide and application to quantitative peptide analysis by isotope differential mass spectrometry. Bioorganic and Medicinal Chemistry Letters, 2003, 13, 2913-2916.	2.2	14
70	Affinity-Tagged Phosphorylation Assay by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry (ATPA-MALDI): Application to Calcium/Calmodulin-Dependent Protein Kinase. Journal of Biochemistry, 2005, 138, 791-796.	1.7	12
71	Investigation of Silver Oxidation Behavior under Active Oxygen Processing Utilizing the Quartz Crystal Microbalance Method. Chemistry Letters, 2009, 38, 1146-1147.	1.3	11
72	Investigation of a Sterilization System Using Active Oxygen Species Generated by Ultraviolet Irradiation. Biocontrol Science, 2015, 20, 11-18.	0.8	11

#	Article	IF	CITATIONS
73	Nutraceutical value of pure curcumin. Pharmacognosy Magazine, 2017, 13, 161.	0.6	11
74	Synthesis of D-labeled naphthyliodoacetamide and application to quantitative peptide analysis by isotope differential mass spectrometry. Bioorganic and Medicinal Chemistry Letters, 2006, 16, 6054-6057.	2.2	10
75	[93] Fluorine-labeled retinals and rhodopsins. Methods in Enzymology, 1982, 81, 694-698.	1.0	9
76	Phosrestin I, an arrestin homolog that undergoes light-induced phosphorylation in dipteran photoreceptors. Insect Biochemistry and Molecular Biology, 1994, 24, 607-617.	2.7	9
77	Isozyme Analysis of the High Serum Adenosine Deaminase Activity in Patients with Myasthenia Gravis Internal Medicine, 1995, 34, 81-84.	0.7	9
78	Discrimination of Two Functions of Photoreceptor cGMP Phosphodiesterase Î ³ Subunit. Biochemical and Biophysical Research Communications, 1996, 222, 488-493.	2.1	9
79	Phrenic nerve conduction in infancy and early childhood. , 2000, 23, 915-918.		9
80	Differential expression of alternative splice variants of β-arrestin-1 and -2 in rat central nervous system and peripheral tissues. European Journal of Neuroscience, 1998, 10, 2607-2616.	2.6	8
81	The Emerging Role of Mass Spectrometry in Molecular Biosciences: Studies of Protein Phosphorylation in Fly Eyes as an Example. Novartis Foundation Symposium, 1999, 224, 225-248.	1.1	8
82	Rhodopsin Regeneration is Accelerated <i>via</i> Noncovalent 11â€ <i>cis</i> Retinal–Opsin Complex—A Role of Retinal Binding Pocket of Opsin ^{â€} . Photochemistry and Photobiology, 2008, 84, 985-989.	2.5	7
83	Development of an Active Oxygen Detector Using a Quartz Crystal Microbalance with a Carbon/Silver Layer. Chemistry Letters, 2009, 38, 216-217.	1.3	7
84	Mechanism for the regulation of mammalian cGMP phosphodiesterase6. 1: Identification of its inhibitory subunit complexes and their roles. Molecular and Cellular Biochemistry, 2010, 339, 215-233.	3.1	7
85	Protein Carbonylation Detected with Light and Heavy Isotope-Labeled 2,4-Dinitrophenylhydrazine by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Journal of the Mass Spectrometry Society of Japan, 2009, 57, 371-377.	0.1	7
86	Phosrestide-1, a peptide derived from the Drosophila photoreceptor protein phosrestin I, is a potent substrate for Ca2+/calmodulin-dependent protein kinase II from rat brain. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 1998, 119, 739-746.	1.6	6
87	Active Oxygen Monitor Using Quartz Crystal Microbalance Method with Polymer Detection Layers. Journal of Photopolymer Science and Technology = [Fotoporima Konwakai Shi], 2009, 22, 279-284.	0.3	5
88	Exploring the development of individual difference profiles in L2 reading. System, 2013, 41, 994-1005.	3.4	5
89	Mechanism for the regulation of mammalian cGMP phosphodiesterase6. 2: Isolation and characterization of the transducin-activated form. Molecular and Cellular Biochemistry, 2010, 339, 235-251.	3.1	4
90	Measurement and simulation of O2(a1Δ) density under low-pressure mercury lamp irradiation. Journal of Photochemistry and Photobiology A: Chemistry, 2015, 305, 78-82.	3.9	4

Нігочикі Матѕимото

#	Article	IF	CITATIONS
91	A sterilization system using ultraviolet photochemical reactions based on nitrous oxide and oxygen gases. Journal of Microbiological Methods, 2016, 122, 59-63.	1.6	4
92	Cutaneous histopathology of the tickâ€bite region in severe fever with thrombocytopenia syndrome. Journal of Dermatology, 2019, 46, 409-412.	1.2	4
93	Two-Dimensional Gel Electrophoresis: Glass Tube-Based IEF Followed by SDS-PAGE. Methods in Molecular Biology, 2012, 869, 267-273.	0.9	3
94	Two-Dimensional Gel Electrophoresis by Glass Tube-Based IEF and SDS-PAGE. Methods in Molecular Biology, 2019, 1855, 107-113.	0.9	3
95	Proteomics as a Tool for Studying Complex Systems and the Abductive Inference of C. S. Peirce. Journal of the Mass Spectrometry Society of Japan, 2002, 50, 116-125.	0.1	2
96	Melatonin induces alterations in protein expression in the Xenopus laevis retina. Journal of Pineal Research, 2002, 32, 270-274.	7.4	2
97	Mechanized Syringe Homogenization of Human and Animal Tissues. Assay and Drug Development Technologies, 2004, 2, 308-312.	1.2	2
98	Two-Dimensional Gel-Based Protein Standardization Verified by Western Blot Analysis. Methods in Molecular Biology, 2015, 1312, 473-479.	0.9	2
99	Exploration of Cone Cyclic Nucleotide-Gated Channel-Interacting Proteins Using Affinity Purification and Mass Spectrometry. Advances in Experimental Medicine and Biology, 2014, 801, 57-65.	1.6	2
100	Visual pigment analogs from isomers of 5,6,7,8-tetrahydroretinal. The importance of the trimethylcyclohexyl ring. Bioorganic Chemistry, 1982, 11, 404-411.	4.1	1
101	Proteomics of <i>Drosophila</i> Compound Eyes: Early Studies, Now, and the Future—Light-Induced Protein Phosphorylation as an Example. Journal of Neurogenetics, 2012, 26, 118-122.	1.4	1
102	Protein Identification on Archived 2-D Gels. Methods in Molecular Biology, 2012, 869, 305-308.	0.9	1
103	The role of the non-covalent β-ionone-ring binding site in rhodopsin: historical and physiological perspective. Photochemical and Photobiological Sciences, 2015, 14, 1932-1940.	2.9	1
104	Identification of Proteins on Archived 2D Gels. Methods in Molecular Biology, 2019, 1855, 287-289.	0.9	1
105	Proteomics Approach to Complex Signaling Systems. Seibutsu Butsuri, 2003, 43, 270-274.	0.1	1
106	Proteomics and Abductive Inference by C. S. Peirce. Seibutsu Butsuri, 2003, 43, 291-294.	0.1	1
107	MS Analysis of Protein Glycosylation. Springer Protocols, 2009, , 1387-1394.	0.3	0
108	Development of the Microchip Isoelectric Focusing System with Fluorescence Correlation Spectroscopic Measurement. Bunseki Kagaku, 2011, 60, 977-982.	0.2	0

#	Article	IF	CITATIONS
109	Proteomic Trajectory Mapping (ã,¿ãƒ³ã∫ʿã,¯è³ªç™ºç¾è»œè•¡åœºå›³). Hikaku Seiri Seikagaku(Comparative Physio 2008, 25, 139-146.	ology and E	Biochemist