

Eiji Kinoshita

List of Publications by Year in descending order

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94
papers

3,514
citations

236612

25
h-index

138251

58
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97
all docs

97
docs citations

97
times ranked

4217
citing authors

#	ARTICLE	IF	CITATIONS
1	Phosphate-binding Tag, a New Tool to Visualize Phosphorylated Proteins. <i>Molecular and Cellular Proteomics</i> , 2006, 5, 749-757.	2.5	997
2	Separation and detection of large phosphoproteins using Phos-tag SDS-PAGE. <i>Nature Protocols</i> , 2009, 4, 1513-1521.	5.5	347
3	FANCI phosphorylation functions as a molecular switch to turn on the Fanconi anemia pathway. <i>Nature Structural and Molecular Biology</i> , 2008, 15, 1138-1146.	3.6	207
4	Recognition of phosphate monoester dianion by an alkoxide-bridged dinuclear zinc(ii) complex. <i>Dalton Transactions</i> , 2004, , 1189.	1.6	193
5	Improved Phos-tag SDS-PAGE under neutral pH conditions for advanced protein phosphorylation profiling. <i>Proteomics</i> , 2011, 11, 319-323.	1.3	163
6	Detection and Quantification of On-Chip Phosphorylated Peptides by Surface Plasmon Resonance Imaging Techniques Using a Phosphate Capture Molecule. <i>Analytical Chemistry</i> , 2005, 77, 3979-3985.	3.2	126
7	Label-free Kinase Profiling Using Phosphate Affinity Polyacrylamide Gel Electrophoresis. <i>Molecular and Cellular Proteomics</i> , 2007, 6, 356-366.	2.5	126
8	Novel immobilized zinc(II) affinity chromatography for phosphopeptides and phosphorylated proteins. <i>Journal of Separation Science</i> , 2005, 28, 155-162.	1.3	93
9	Separation of phosphoprotein isotypes having the same number of phosphate groups using phosphate-affinity SDS-PAGE. <i>Proteomics</i> , 2008, 8, 2994-3003.	1.3	81
10	Phos-tag SDS-PAGE systems for phosphorylation profiling of proteins with a wide range of molecular masses under neutral pH conditions. <i>Proteomics</i> , 2012, 12, 192-202.	1.3	72
11	Enrichment of phosphorylated proteins from cell lysate using a novel phosphate-affinity chromatography at physiological pH. <i>Proteomics</i> , 2006, 6, 5088-5095.	1.3	65
12	The DNA-binding activity of mouse DNA methyltransferase 1 is regulated by phosphorylation with casein kinase 1 β . <i>Biochemical Journal</i> , 2010, 427, 489-497.	1.7	56
13	Separation of a phosphorylated histidine protein using phosphate affinity polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2007, 360, 160-162.	1.1	50
14	Advances in Phos-tag-based methodologies for separation and detection of the phosphoproteome. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2015, 1854, 601-608.	1.1	50
15	Two-dimensional phosphate-affinity gel electrophoresis for the analysis of phosphoprotein isotypes. <i>Electrophoresis</i> , 2009, 30, 550-559.	1.3	48
16	Mobility shift detection of phosphorylation on large proteins using a Phos-tag SDS-PAGE gel strengthened with agarose. <i>Proteomics</i> , 2009, 9, 4098-4101.	1.3	46
17	Activation of MAP kinase cascade induced by human pancreatic phospholipase A2 in a human pancreatic cancer cell line. <i>FEBS Letters</i> , 1997, 407, 343-346.	1.3	42
18	Highly sensitive detection of protein phosphorylation by using improved Phos-tag Biotin. <i>Proteomics</i> , 2012, 12, 932-937.	1.3	41

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19	Phos-tag beads as an immunoblotting enhancer for selective detection of phosphoproteins in cell lysates. <i>Analytical Biochemistry</i> , 2009, 389, 83-85.	1.1	35
20	Tips on improving the efficiency of electrotransfer of target proteins from Phos-tag SDS-PAGE gel. <i>Proteomics</i> , 2014, 14, 2437-2442.	1.3	32
21	Functional Characterization of the Receiver Domain for Phosphorelay Control in Hybrid Sensor Kinases. <i>PLoS ONE</i> , 2015, 10, e0132598.	1.1	32
22	Separation and identification of four distinct serine phosphorylation states of ovalbumin by Phos-tag affinity electrophoresis. <i>Electrophoresis</i> , 2012, 33, 849-855.	1.3	30
23	On site of action of grayanotoxin in domain 4 segment 6 of rat skeletal muscle sodium channel. <i>FEBS Letters</i> , 2000, 465, 18-22.	1.3	28
24	A Phos-tag-based magnetic-bead method for rapid and selective separation of phosphorylated biomolecules. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2013, 925, 86-94.	1.2	26
25	Profiling of protein thiophosphorylation by Phos-tag affinity electrophoresis: Evaluation of adenosine 5'-thiotriphosphate as a phosphoryl donor in protein kinase reactions. <i>Proteomics</i> , 2014, 14, 668-679.	1.3	26
26	Validation of Cis and Trans Modes in Multistep Phosphotransfer Signaling of Bacterial Tripartite Sensor Kinases by Using Phos-Tag SDS-PAGE. <i>PLoS ONE</i> , 2016, 11, e0148294.	1.1	25
27	A Phos-tag-based micropipette tip method for rapid and selective enrichment of phosphopeptides. <i>Electrophoresis</i> , 2017, 38, 2447-2455.	1.3	22
28	Sandwich assay for phosphorylation of protein multiplexes by using antibodies and Phos-tag. <i>Analytical Biochemistry</i> , 2013, 438, 104-106.	1.1	21
29	A novel procedure for simple and efficient genotyping of single nucleotide polymorphisms by using the Zn ²⁺ -cyclen complex. <i>Nucleic Acids Research</i> , 2002, 30, 126e-126.	6.5	19
30	A Phos-tag SDS-PAGE method that effectively uses phosphoproteomic data for profiling the phosphorylation dynamics of MEK1. <i>Proteomics</i> , 2016, 16, 1825-1836.	1.3	19
31	A Phos-tag-based fluorescence resonance energy transfer system for the analysis of the dephosphorylation of phosphopeptides. <i>Analytical Biochemistry</i> , 2009, 388, 235-241.	1.1	18
32	Ultrastructure and Rapid Axopodial Contraction of a Heliozoa, <i>Raphidiophrys contractilis</i> Sp. Nov.. <i>Journal of Eukaryotic Microbiology</i> , 1995, 42, 283-288.	0.8	17
33	Phosphate-Affinity Gel Electrophoresis Using a Phos-Tag Molecule for Phosphoproteome Study. <i>Current Proteomics</i> , 2009, 6, 104-121.	0.1	17
34	Expression and phosphorylation state analysis of intracellular protein kinases using Multi-PK antibody and Phos-tag SDS-PAGE. <i>MethodsX</i> , 2015, 2, 469-474.	0.7	17
35	TAMRA/TAMRA Fluorescence Quenching Systems for the Activity Assay of Alkaline Phosphatase. <i>Sensors</i> , 2017, 17, 1877.	2.1	17
36	A single nucleotide polymorphism genotyping method using phosphate-affinity polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2007, 361, 294-298.	1.1	15

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37	A Phos-tag-based fluorescence resonance energy transfer system for the analysis of the kinase reaction of a substrate peptide. <i>Analytical Methods</i> , 2011, 3, 1303.	1.3	15
38	Quantitative monitoring of His and Asp phosphorylation in a bacterial signaling system by using Phos-tag Magenta/Cyan fluorescent dyes. <i>Electrophoresis</i> , 2019, 40, 3005-3013.	1.3	15
39	A heteroduplex-preferential Tm depressor for the specificity-enhanced DNA polymerase chain reactions. <i>Analytical Biochemistry</i> , 2005, 337, 154-160.	1.1	14
40	The Cutting Edge of Affinity Electrophoresis Technology. <i>Proteomes</i> , 2015, 3, 42-55.	1.7	14
41	Identification on membrane and characterization of phosphoproteins using an alkoxide-bridged dinuclear metal complex as a phosphate-binding tag molecule. <i>Journal of Biomolecular Techniques</i> , 2007, 18, 278-86.	0.8	14
42	Evaluation of four phosphopeptide enrichment strategies for mass spectrometry-based proteomic analysis. <i>Proteomics</i> , 2022, 22, e2100216.	1.3	12
43	Reliable and Cost-Effective Screening of Inherited Heterozygosity by Zn ²⁺ -Cyclen Polyacrylamide Gel Electrophoresis. <i>Clinical Chemistry</i> , 2005, 51, 2195-2198.	1.5	11
44	Protein-N-myristoylation-dependent phosphorylation of serine 13 of tyrosine kinase Lyn by casein kinase 1 β at the Golgi during intracellular protein traffic. <i>Scientific Reports</i> , 2020, 10, 16273.	1.6	11
45	Increase in constitutively active MEK1 species by introduction of MEK1 mutations identified in cancers. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 62-70.	1.1	10
46	Neutral Phosphate-Affinity SDS-PAGE System for Profiling of Protein Phosphorylation. <i>Methods in Molecular Biology</i> , 2015, 1295, 323-354.	0.4	10
47	History of Phos-tag technology for phosphoproteomics. <i>Journal of Proteomics</i> , 2022, 252, 104432.	1.2	10
48	The Ultrastructure of Contractile Tubules in the Heliozoon <i>Actinophrys sol</i> and Their Possible Involvement in Rapid Axopodial Contraction. <i>Journal of Eukaryotic Microbiology</i> , 2001, 48, 519-526.	0.8	9
49	An Alkoxide-Bridged Dinuclear Zinc(II) Hexaazacryptate: A Novel Phosphate Capture Molecule in Aqueous Solution. <i>Bulletin of the Chemical Society of Japan</i> , 2005, 78, 125-131.	2.0	9
50	Simple enrichment of thiol-containing biomolecules by using zinc(II)-cyclen-functionalized magnetic beads. <i>Journal of Separation Science</i> , 2014, 37, 1601-1609.	1.3	9
51	A Laborsaving, Timesaving, and More Reliable Strategy for Separation of Low-Molecular-Mass Phosphoproteins in Phos-tag Affinity Electrophoresis. <i>International Journal of Chemistry</i> , 2012, 4, .	0.3	8
52	Non-SCN5A Related Brugada Syndromes: Verification of Normal Splicing and Trafficking of SCN5A Without Exonic Mutations. <i>Annals of Human Genetics</i> , 2007, 71, 8-17.	0.3	7
53	A mobility shift detection method for DNA methylation analysis using phosphate affinity polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2008, 378, 102-104.	1.1	7
54	Detection of the Gua/Cyt-to-Cyt/Gua mutation in a Gua/Cyt-lined sequence using Zn ²⁺ -cyclen polyacrylamide gel electrophoresis. <i>Analytical Biochemistry</i> , 2008, 380, 122-127.	1.1	7

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55	Zn(II)-Phos-Tag SDS-PAGE for Separation and Detection of a DNA Damage-Related Signaling Large Phosphoprotein. <i>Methods in Molecular Biology</i> , 2017, 1599, 113-126.	0.4	6
56	Specific glutamic acid residues in targeted proteins induce exaggerated retardations in Phos-tag SDS-PAGE migration. <i>Electrophoresis</i> , 2017, 38, 1139-1146.	1.3	6
57	Phos-tag diagonal electrophoresis precisely detects the mobility change of phosphoproteins in Phos-tag SDS-PAGE. <i>Journal of Proteomics</i> , 2021, 231, 104005.	1.2	6
58	Phosphopeptide Detection with Biotin-Labeled Phos-tag. <i>Methods in Molecular Biology</i> , 2016, 1355, 17-29.	0.4	6
59	Genotyping and mapping assay of single-nucleotide polymorphisms in CYP3A5 using DNA-binding zinc(II) complexes. <i>Clinical Biochemistry</i> , 2010, 43, 302-306.	0.8	5
60	Identification of two phosphorylated species of β -catenin involved in the ubiquitin-proteasome pathway by using two-dimensional Phos-tag affinity electrophoresis. <i>Journal of Electrophoresis</i> , 2014, 58, 1-4.	0.2	5
61	Gel-based analysis of protein phosphorylation status by rapid fluorometric staining using TAMRA-labeled Phos-tag. <i>Journal of Electrophoresis</i> , 2019, 63, 25-32.	0.2	5
62	A strategy to identify protein-N-myristoylation-dependent phosphorylation reactions of cellular proteins by using Phos-tag SDS-PAGE. <i>PLoS ONE</i> , 2019, 14, e0225510.	1.1	5
63	An immuno-dot blot assay for screening histidine kinase inhibitors. <i>Analytical Biochemistry</i> , 2020, 600, 113765.	1.1	5
64	Detection of phosphorylation on large proteins by western blotting using Phos-tag containing gel. <i>Protocol Exchange</i> , 0, , .	0.3	4
65	A Phos-Tag-Based Fluorescence Quenching System for Activity Assay and Inhibitor Screening for Alkaline Phosphatase. <i>American Journal of Analytical Chemistry</i> , 2014, 05, 796-804.	0.3	4
66	Recent advances in the Phos-tag technique focused on the analysis of phosphoproteins in a bacterial two-component system. <i>Journal of Proteomics</i> , 2022, 252, 104429.	1.2	4
67	A novel thiol-affinity micropipette tip method using zinc(II)-cyclen-attached agarose beads for enrichment of cysteine-containing molecules. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2016, 1031, 195-201.	1.2	3
68	A simple method for determining the ligand affinity toward a zinc-enzyme model by using a TAMRA/TAMRA interaction. <i>Dalton Transactions</i> , 2018, 47, 1841-1848.	1.6	3
69	A method for profiling the phosphorylation state of tyrosine protein kinases. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 71-75.	1.1	3
70	An assay of human tyrosine protein kinase ABL activity using an Escherichia coli protein expression system. <i>BioTechniques</i> , 2021, 70, 209-217.	0.8	3
71	Zn(II)-Cyclen Polyacrylamide Gel Electrophoresis for SNP Detection. <i>Methods in Molecular Biology</i> , 2009, 578, 169-182.	0.4	3
72	Phosphate-Affinity Polyacrylamide Gel Electrophoresis for SNP Genotyping. <i>Methods in Molecular Biology</i> , 2009, 578, 183-192.	0.4	3

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73	Phos-tag Affinity Electrophoresis for Protein Kinase Profiling. <i>Neuromethods</i> , 2012, , 13-34.	0.2	3
74	Phos-tag-Based Microarray Techniques Advance Phosphoproteomics. <i>Journal of Proteomics and Bioinformatics</i> , 2013, 01, .	0.4	3
75	4- ϵ ,6-Diamidino-2-Phenylindole Distinctly Labels Tau Deposits. <i>Journal of Histochemistry and Cytochemistry</i> , 2018, 66, 737-751.	1.3	2
76	Characterization of Phosphorylation Status and Kinase Activity of Src Family Kinases Expressed in Cell-Based and Cell-Free Protein Expression Systems. <i>Biomolecules</i> , 2021, 11, 1448.	1.8	2
77	Zinc(II)-cyclen polyacrylamide gel electrophoresis for detection of mutations in short Ade/Thy-rich DNA fragments. <i>Analytical Biochemistry</i> , 2011, 408, 348-350.	1.1	1
78	Improving the Electrotransfer Efficiency of Target Phosphoprotein from Phos-tag SDS-PAGE Gel. <i>Bunseki Kagaku</i> , 2015, 64, 501-509.	0.1	1
79	Phos-tag-based micropipette-tip method for analysis of phosphomonoester-type impurities in synthetic oligonucleotides. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2020, 1151, 122198.	1.2	1
80	Characterization of the Binding of Adenosine-5'-monophosphate to a μ -Type Alkoxide-Linked Dinuclear Zinc(II) Complex in Crystal and Solution State. <i>Bulletin of the Chemical Society of Japan</i> , 2021, 94, 2670-2677.	2.0	1
81	Phos-Tag Fluorescent Gel Staining for the Quantitative Detection of His- and Asp-Phosphorylated Proteins. <i>Methods in Molecular Biology</i> , 2021, 2261, 73-78.	0.4	1
82	A dot-blot-staining method for detecting phosphoproteins with a Phos-tag Aqua fluorescent dye. <i>Journal of Electrophoresis</i> , 2020, 64, 7-11.	0.2	1
83	Determining Protein Phosphorylation Status Using Antibody Arrays and Phos-Tag Biotin. <i>Methods in Molecular Biology</i> , 2021, 2237, 217-224.	0.4	1
84	Improved Phos-tag SDS-PAGE under neutral pH conditions for advanced profiling of protein phosphorylation. <i>Seibutsu Butsuri Kagaku</i> , 2012, 56, s41-s44.	0.1	0
85	Protocols for the analysis of phosphoproteins using Phos-tag technology. <i>Seibutsu Butsuri Kagaku</i> , 2012, 56, s51-s75.	0.1	0
86	Phos-tag-based fluorescence resonance energy transfer system for the analysis of protein kinase and phosphatase reactions. <i>Seibutsu Butsuri Kagaku</i> , 2012, 56, s45-s49.	0.1	0
87	Phos-tag chemistry. <i>Seibutsu Butsuri Kagaku</i> , 2012, 56, s3-s7.	0.1	0
88	Phos-tag affinity electrophoresis. <i>Seibutsu Butsuri Kagaku</i> , 2014, 58, 21-23.	0.1	0
89	Phos-tag-Based Affinity Chromatography Techniques for Enrichment of the Phosphoproteome. , 2015, , 17-30.		0
90	Phos-tag SDS-PAGE methodology that effectively uses phosphoproteomic data for profiling the phosphorylation dynamics of MEK1. <i>Denki Eido</i> , 2017, 61, 9-15.	0.0	0

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91	Enrichment of Low-Molecular-Weight Phosphorylated Biomolecules Using Phos-Tag Tip. <i>Neuromethods</i> , 2019, , 75-84.	0.2	0
92	Quantitative analysis of phosphoproteins in a bacterial two-component system using Phos-tag techniques. <i>Denki Eido</i> , 2020, 64, 35-39.	0.0	0
93	Crystal Structure of Bis{1,3-bis[bis(pyridin-2-ylmethyl)amino]propan-2-olato-dizinc(II)}orthophosphate Tris(perchlorate) Octahydrate, [(Phos-tag) ₂ -PO ₄] ³⁻ [ClO ₄] _{0.1} ⁰ X-ray Structure Analysis Online, 2021, 37, 87-88.		
94	Phos-tag-based phosphate affinity chromatographic techniques. <i>Journal of Chromatography Open</i> , 2022, , 100051.	0.8	0