

CITATION REPORT

List of articles citing

Robust phosphoproteome enrichment using monodisperse microsphere-based immobilized titanium (IV) ion affinity chromatography

DOI: 10.1038/nprot.2013.010
Nature Protocols, 2013, 8, 461-80.

Source: <https://exaly.com/paper-pdf/55806381/citation-report.pdf>

Version: 2024-04-09

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
320	Sensitive, Robust, and Cost-Effective Approach for Tyrosine Phosphoproteome Analysis.		
319	The Hog1 stress-activated protein kinase targets nucleoporins to control mRNA export upon stress. 2013 , 288, 17384-98		29
318	Ultrathin-yttrium phosphate-shelled polyacrylate-ferrihydrous oxide magnetic microspheres for rapid and selective enrichment of phosphopeptides. 2013 , 1316, 62-8		14
317	Unambiguous phosphosite localization using electron-transfer/higher-energy collision dissociation (ETHCD). 2013 , 12, 1520-5		125
316	A large synthetic peptide and phosphopeptide reference library for mass spectrometry-based proteomics. 2013 , 31, 557-64		132
315	Determination of CK2 specificity and substrates by proteome-derived peptide libraries. 2013 , 12, 3813-21		20
314	Identification of multiphosphorylated peptides in milk. 2013 , 61, 9110-7		30
313	Conference Scene: biomarkers: discovery technologies and novel disease applications. 2013 , 7, 587-9		
312	Macroporous reversed-phase separation of proteins combined with reversed-phase separation of phosphopeptides and tandem mass spectrometry for profiling the phosphoproteome of MDA-MB-231 cells. 2014 , 35, 3479-86		3
311	Proteomic analysis of phosphorylation in cancer. 2014 , 11, 259-67		36
310	Alterations in the cerebellar (Phospho)proteome of a cyclic guanosine monophosphate (cGMP)-dependent protein kinase knockout mouse. 2014 , 13, 2004-16		11
309	ROCK1 is a potential combinatorial drug target for BRAF mutant melanoma. 2014 , 10, 772		38
308	Technological advances for deciphering the complexity of psychiatric disorders: merging proteomics with cell biology. 2014 , 17, 1327-41		10
307	Experimental and computational tools for analysis of signaling networks in primary cells. 2014 , 104, 11.11.1-11.11.123		
306	Detection of CREB phosphorylation via Zr (IV) ion mediated signal amplification. 2014 , 56, 1-5		7
305	Dynamic regulation of the COP9 signalosome in response to DNA damage. 2014 , 34, 1066-76		21
304	An enzyme assisted RP-RPLC approach for in-depth analysis of human liver phosphoproteome. 2014 , 96, 253-62		166

303	Preparation of mixed lanthanides-immobilized magnetic nanoparticles for selective enrichment and identification of phosphopeptides by MS. 2014 , 35, 3470-8	13
302	Enrichment and separation techniques for large-scale proteomics analysis of the protein post-translational modifications. 2014 , 1372C, 1-17	72
301	Puzzling over protein cysteine phosphorylation--assessment of proteomic tools for S-phosphorylation profiling. 2014 , 139, 4118-23	10
300	Ti-immobilized multilayer polysaccharide coated magnetic nanoparticles for highly selective enrichment of phosphopeptides. 2014 , 2, 4473-4480	56
299	Reproducible automated phosphopeptide enrichment using magnetic TiO ₂ and Ti-IMAC. 2014 , 86, 10296-302	52
298	Integration of simultaneous and cascade release of two drugs into smart single nanovehicles based on DNA-gated mesoporous silica nanoparticles. 2014 , 5, 4424-4433	22
297	Integration of cell lysis, protein extraction, and digestion into one step for ultrafast sample preparation for phosphoproteome analysis. 2014 , 86, 6786-91	17
296	In situ sample processing approach (iSPA) for comprehensive quantitative phosphoproteome analysis. 2014 , 13, 3896-904	12
295	Mesoporous Zirconium Phenylphosphonates for Selective Enrichment of Phosphopeptides. 2014 , 118, 4213-4221	26
294	Single-step enrichment by Ti ⁴⁺ -IMAC and label-free quantitation enables in-depth monitoring of phosphorylation dynamics with high reproducibility and temporal resolution. 2014 , 13, 2426-34	80
293	Characterization of biases in phosphopeptide enrichment by Ti(4+)-immobilized metal affinity chromatography and TiO ₂ using a massive synthetic library and human cell digests. 2014 , 86, 8312-20	35
292	Towards single-cell LC-MS phosphoproteomics. 2014 , 139, 4733-49	21
291	Phosphoproteome analysis of formalin-fixed and paraffin-embedded tissue sections mounted on microscope slides. 2014 , 13, 915-24	41
290	Systems-wide analysis of BCR signalosomes and downstream phosphorylation and ubiquitylation. 2015 , 11, 810	82
289	High Concentration Trypsin Assisted Fast In-Gel Digestion for Phosphoproteome Analysis. 2015 , 43, 1452-1458	2
288	Development of erbium phosphate doped poly(glycidyl methacrylate/ethylene dimethacrylate) spin columns for selective enrichment of phosphopeptides. 2015 , 38, 1334-43	10
287	Global Cell Proteome Profiling, Phospho-signaling and Quantitative Proteomics for Identification of New Biomarkers in Acute Myeloid Leukemia Patients. 2016 , 17, 52-70	20
286	Signal Transduction Reaction Monitoring Deciphers Site-Specific PI3K-mTOR/MAPK Pathway Dynamics in Oncogene-Induced Senescence. 2015 , 14, 2906-14	27

285	Progress and Application of LC-MS Technologies for Characterizing Protein Post Translational Modifications. 2015 , 43, 1479-1489	2
284	Controllable construction of titanium dioxide-zirconium dioxide@zinc hydroxyfluoride networks in micro-capillaries for bio-analysis. 2015 , 446, 290-7	10
283	Comprehensive and reproducible phosphopeptide enrichment using iron immobilized metal ion affinity chromatography (Fe-IMAC) columns. 2015 , 14, 205-15	88
282	An Augmented Multiple-Protease-Based Human Phosphopeptide Atlas. 2015 , 11, 1834-43	78
281	Why phosphoproteomics is still a challenge. 2015 , 11, 1487-93	63
280	Zr-based metal-organic frameworks for specific and size-selective enrichment of phosphopeptides with simultaneous exclusion of proteins. 2015 , 3, 4242-4248	48
279	Low-pH Solid-Phase Amino Labeling of Complex Peptide Digests with TMTs Improves Peptide Identification Rates for Multiplexed Global Phosphopeptide Analysis. 2015 , 14, 2500-10	22
278	Synthesis and Characterization of Functionalized Poly(glycidyl methacrylate)-Based Particles for the Selective Removal of Nitrogen Compounds from Light Gas Oil: Effect of Linker Length. 2015 , 29, 1881-1891	9
277	Phosphorylation-directed assembly of a single quantum dot based nanosensor for protein kinase assay. 2015 , 87, 4696-703	54
276	Recent findings and technological advances in phosphoproteomics for cells and tissues. 2015 , 12, 469-87	63
275	Over 2300 phosphorylated peptide identifications with single-shot capillary zone electrophoresis-tandem mass spectrometry in a 100 min separation. 2015 , 87, 9532-7	42
274	Extended Coverage of Singly and Multiply Phosphorylated Peptides from a Single Titanium Dioxide Microcolumn. 2015 , 87, 10213-21	26
273	Complementary IMAC enrichment methods for HLA-associated phosphopeptide identification by mass spectrometry. <i>Nature Protocols</i> , 2015 , 10, 1308-18	18.8 57
272	Magnetic zirconium hexacyanoferrate(II) nanoparticle as tracing tag for electrochemical DNA assay. 2015 , 87, 9093-100	39
271	Fishing the PTM proteome with chemical approaches using functional solid phases. 2015 , 44, 8260-87	59
270	Uncovering dynamic phosphorylation signaling using mass spectrometry. 2015 , 391, 123-138	3
269	ZrO ₂ Nanofiber as a Versatile Tool for Protein Analysis. 2015 , 7, 26414-20	26
268	Facile synthesis of gallium ions immobilized and adenosine functionalized magnetic nanoparticles with high selectivity for multi-phosphopeptides. 2015 , 900, 46-55	25

267	Highly selective manganese-doped zinc sulfide quantum dots based label free phosphorescent sensor for phosphopeptides in presence of zirconium (IV). 2015 , 66, 533-8	23
266	Plant hormone signalling through the eye of the mass spectrometer. 2015 , 15, 1113-26	10
265	Assessment of SRM, MRM(3) , and DIA for the targeted analysis of phosphorylation dynamics in non-small cell lung cancer. 2016 , 16, 2193-205	38
264	SPATA2 links CYLD to the TNF- α receptor signaling complex and modulates the receptor signaling outcomes. 2016 , 35, 1868-84	98
263	Immobilized metal affinity chromatography optimized for the analysis of extracellular phosphorylation. 2016 , 16, 1858-62	8
262	Mimicking nature: Phosphopeptide enrichment using combinatorial libraries of affinity ligands. 2016 , 1457, 76-87	10
261	Elimination coupled with strong cation-exchange chromatography for phosphopeptide analysis. 2016 , 30, 1695-1704	4
260	Understanding of Networks In Vitro and/or In Vivo. 2016 , 141-152	
259	Dual-Metal Centered Zirconium-Organic Framework: A Metal-Affinity Probe for Highly Specific Interaction with Phosphopeptides. 2016 , 8, 35012-35020	68
258	Identification, Quantification, and Site Localization of Protein Posttranslational Modifications via Mass Spectrometry-Based Proteomics. 2016 , 919, 345-382	36
257	Development of magnetic ytterbium oxide core-shell particles for selectively trapping phosphopeptides. 2016 , 8, 3061-3068	5
256	Ethylene glycol assisted preparation of Ti(4+)-modified polydopamine coated magnetic particles with rough surface for capture of phosphorylated proteins. 2016 , 929, 23-30	15
255	A novel double-component MOAC honeycomb composite with pollen grains as a template for phosphoproteomics research. 2016 , 154, 141-9	15
254	Preparation of Polypropylene Spin Tips Filled with Immobilized Titanium(IV) Ion Monolithic Adsorbent for Robust Phosphoproteome Analysis. 2016 , 88, 5058-64	31
253	Acceptor-functionalized particles: Synthesis, characterization and effect of cross-linking agents on adsorptive removal of nitrogen- and sulfur-compounds from light gas oil. 2016 , 44, 43-51	6
252	Modulating the selectivity of affinity absorbents to multi-phosphopeptides by a competitive substitution strategy. 2016 , 1461, 35-41	12
251	Preparation of a novel Zr(4+)-immobilized metal affinity membrane for selective adsorption of phosphoprotein. 2016 , 1029-1030, 184-190	8
250	New Magnetic Graphitized Carbon Black TiO Composite for Phosphopeptide Selective Enrichment in Shotgun Phosphoproteomics. 2016 , 88, 12043-12050	44

249	Up-to-Date Workflow for Plant (Phospho)proteomics Identifies Differential Drought-Responsive Phosphorylation Events in Maize Leaves. 2016 , 15, 4304-4317	40
248	Ultra-deep tyrosine phosphoproteomics enabled by a phosphotyrosine superbinder. 2016 , 12, 959-966	88
247	Quantitative proteomics in <i>Giardia duodenalis</i> -Achievements and challenges. 2016 , 208, 96-112	6
246	Phosphatidic acid-functionalized monolithic stationary phase for reversed-phase/cation-exchange mixed mode chromatography. 2016 , 6, 100891-100898	8
245	Identification and Analysis of Protein Phosphorylation by Mass Spectrometry. 2016 , 17-87	1
244	Antibody-Free Approach for the Global Analysis of Protein Methylation. 2016 , 88, 11319-11327	29
243	Highly selective detection of multi-phosphorylated peptides via artificial receptor-immobilized on magnetic spheres. 2016 ,	
242	C8-modified CeO//SiO Janus fibers for selective capture and individual MS detection of low-abundance peptides and phosphopeptides. 2016 , 4, 4402-4409	32
241	Polydopamine assisted preparation of Ti ⁴⁺ -decorated magnetic particles for selective and rapid adsorption of phosphorylated proteins. 2016 , 91, 892-900	12
240	Bottom-Up Proteomics (2013-2015): Keeping up in the Era of Systems Biology. 2016 , 88, 95-121	45
239	Metal ion-immobilized magnetic nanoparticles for global enrichment and identification of phosphopeptides by mass spectrometry. 2016 , 6, 1670-1677	21
238	Recent advances in phosphopeptide enrichment: Strategies and techniques. 2016 , 78, 70-83	72
237	Preparation of Ti(4+)-immobilized modified silica capillary trapping column for on-line selective enrichment of phosphopeptides. 2016 , 153, 285-94	16
236	Highly specific phosphopeptide enrichment by titanium(IV) cross-linked chitosan composite. 2016 , 1008, 234-239	7
235	Coupling of Phosphate-Imprinted Mesoporous Silica Nanoparticles-Based Selective Enrichment with Matrix-Assisted Laser Desorption Ionization-Time-of-Flight Mass Spectrometry for Highly Efficient Analysis of Protein Phosphorylation. 2016 , 88, 1447-54	78
234	Phosphopeptide enrichment: Development of magnetic solid phase extraction method based on polydopamine coating and Ti(4+)-IMAC. 2016 , 909, 67-74	32
233	Enrichment Strategies in Phosphoproteomics. 2016 , 1355, 105-21	37
232	Hydrazide functionalized monodispersed silica microspheres: a novel probe with tunable selectivity for a versatile enrichment of phosphopeptides with different numbers of phosphorylation sites in MS analysis. 2016 , 52, 1162-5	20

231	Comparative phosphoproteomic analysis of intestinal phosphorylated proteins in active versus aestivating sea cucumbers. 2016 , 135, 141-150	16
230	Phosphoproteomics in the Age of Rapid and Deep Proteome Profiling. 2016 , 88, 74-94	159
229	Biphasic Affinity Chromatographic Approach for Deep Tyrosine Phosphoproteome Analysis. 2017 , 89, 2405-2410	12
228	Preparation of magnetic hierarchically porous microspheres with temperature-controlled wettability for removal of oils. 2017 , 492, 73-80	14
227	Titanium (IV) ion-modified covalent organic frameworks for specific enrichment of phosphopeptides. 2017 , 166, 133-140	59
226	Membrane-Depolarizing Channel Blockers Induce Selective Glioma Cell Death by Impairing Nutrient Transport and Unfolded Protein/Amino Acid Responses. 2017 , 77, 1741-1752	15
225	Unambiguous Identification of Serine and Threonine Pyrophosphorylation Using Neutral-Loss-Triggered Electron-Transfer/Higher-Energy Collision Dissociation. 2017 , 89, 3672-3680	16
224	Metal-organic framework incorporated monolithic capillary for selective enrichment of phosphopeptides. 2017 , 7, 15894-15902	19
223	Ti(IV) carrying polydopamine-coated, monodisperse-porous SiO ₂ microspheres with stable magnetic properties for highly selective enrichment of phosphopeptides. 2017 , 153, 280-290	32
222	Vertex-Specific Proteins pUL17 and pUL25 Mechanically Reinforce Herpes Simplex Virus Capsids. 2017 , 91,	23
221	Peroxisomes. 2017 ,	3
220	Study of Peroxisomal Protein Phosphorylation by Functional Proteomics. 2017 , 1595, 267-289	3
219	Protein sumoylation and phosphorylation intersect in Arabidopsis signaling. 2017 , 91, 505-517	21
218	Robust, Sensitive, and Automated Phosphopeptide Enrichment Optimized for Low Sample Amounts Applied to Primary Hippocampal Neurons. 2017 , 16, 728-737	64
217	Design and synthesis of an immobilized metal affinity chromatography and metal oxide affinity chromatography hybrid material for improved phosphopeptide enrichment. 2017 , 1505, 56-62	35
216	Highly reproducible improved label-free quantitative analysis of cellular phosphoproteome by optimization of LC-MS/MS gradient and analytical column construction. 2017 , 165, 69-74	23
215	Hanfa Zou, 1961-2016. 2017 , 1498, 2-7	
214	Proteasome Activation by Small Molecules. 2017 , 24, 725-736.e7	85

213	Inference and quantification of peptidoforms in large sample cohorts by SWATH-MS. 2017 , 35, 781-788	85
212	Single-Step Enrichment of N-Glycopeptides and Phosphopeptides with Novel Multifunctional Ti-Immobilized Dendritic Polyglycerol Coated Chitosan Nanomaterials. 2017 , 89, 7520-7526	52
211	EDTA-functionalized magnetic nanoparticles: A suitable platform for the analysis of low abundance urinary proteins. 2017 , 170, 81-88	0
210	An immobilized titanium (IV) ion affinity chromatography adsorbent for solid phase extraction of phosphopeptides for phosphoproteome analysis. 2017 , 1498, 22-28	28
209	Highly selective enrichment of phosphopeptides by titanium (IV) attached monodisperse-porous poly(vinylphosphonic acid-co-ethylene dimethacrylate) microspheres. 2017 , 1496, 9-19	17
208	Facile Preparation of Titanium(IV)-Immobilized Hierarchically Porous Hybrid Monoliths. 2017 , 89, 4655-4662	29
207	A Molecular Basis for the Presentation of Phosphorylated Peptides by HLA-B Antigens. 2017 , 16, 181-193	29
206	Glucose-6-Phosphate-Functionalized Magnetic Microsphere as Novel Hydrophilic Probe for Specific Capture of N-Linked Glycopeptides. 2017 , 89, 11151-11158	57
205	Quantitative phosphoproteomics reveals involvement of multiple signaling pathways in early phagocytosis by the retinal pigmented epithelium. 2017 , 292, 19826-19839	7
204	Bonding-induced emission of silyl-protected copper nanoclusters for luminescence turn-on detection of trace water in organic solvents. 2017 , 142, 4613-4617	21
203	Recent advances in phosphoproteomics and application to neurological diseases. 2017 , 142, 4373-4387	22
202	Identification of Missing Proteins in the Phosphoproteome of Kidney Cancer. 2017 , 16, 4364-4373	12
201	Hydrogen bond based smart polymer for highly selective and tunable capture of multiply phosphorylated peptides. 2017 , 8, 461	51
200	Phosphoproteome-based kinase activity profiling reveals the critical role of MAP2K2 and PLK1 in neuronal autophagy. 2017 , 13, 1969-1980	31
199	One-step functionalization of magnetic nanoparticles with 4-mercaptophenylboronic acid for a highly efficient analysis of N-glycopeptides. 2017 , 9, 16024-16029	36
198	Pyrophosphate-Imprinted Magnetic Mesoporous Silica Microspheres for Recognition, Enrichment and MS Detection of Phosphopeptides. 2017 , 2, 5089-5094	6
197	Altering the Peptide Binding Selectivity of Polymeric Reverse Micelle Assemblies via Metal Ion Loading. 2017 , 33, 14004-14010	3
196	Fast Global Phosphoproteome Profiling of Jurkat T Cells by HIFU-TiO-SCX-LC-MS/MS. 2017 , 89, 8853-8862	14

195	Surface-Confined Aqueous Reversible Addition-Fragmentation Chain Transfer (SCRAFT) Polymerization Method for Preparation of Coated Capillary Leads to over 10 000 Peptides Identified from 25 ng HeLa Digest by Using Capillary Zone Electrophoresis-Tandem Mass Spectrometry. 2017 , 89, 6774-6780	21
194	Functional proteomics of cellular mechanosensing mechanisms. 2017 , 71, 118-128	7
193	Specific mixing facilitates the comparative quantification of phosphorylation sites with significant dysregulations. 2017 , 950, 129-137	4
192	Combining Deep Sequencing, Proteomics, Phosphoproteomics, and Functional Screens To Discover Novel Regulators of Sphingolipid Homeostasis. 2017 , 16, 571-582	7
191	Coupling of metal-organic frameworks-containing monolithic capillary-based selective enrichment with matrix-assisted laser desorption/ionization-time-of-flight mass spectrometry for efficient analysis of protein phosphorylation. 2017 , 1498, 56-63	14
190	Fabrication of diverse pH-sensitive functional mesoporous silica for selective removal or depletion of highly abundant proteins from biological samples. 2017 , 162, 380-389	7
189	Multi-OMIC profiling of survival and metabolic signaling networks in cells subjected to photodynamic therapy. 2017 , 74, 1133-1151	16
188	Opposite Electron-Transfer Dissociation and Higher-Energy Collisional Dissociation Fragmentation Characteristics of Proteolytic K/R(X) and (X)K/R Peptides Provide Benefits for Peptide Sequencing in Proteomics and Phosphoproteomics. 2017 , 16, 852-861	15
187	A Novel Method for Analysis of Tyrosine Phosphopeptides Based on a Centrifugal Enrichment Device. 2017 , 45, 1434-1440	
186	Salinity-Induced Palmella Formation Mechanism in Halotolerant Algae Revealed by Quantitative Proteomics and Phosphoproteomics. 2017 , 8, 810	28
185	Highly Efficient Single-Step Enrichment of Low Abundance Phosphopeptides from Plant Membrane Preparations. 2017 , 8, 1673	12
184	Phosphoproteomics Reveals Regulatory T Cell-Mediated DEF6 Dephosphorylation That Affects Cytokine Expression in Human Conventional T Cells. 2017 , 8, 1163	7
183	Phosphoproteome Profiling Reveals Circadian Clock Regulation of Posttranslational Modifications in the Murine Hippocampus. 2017 , 8, 110	19
182	Immobilized Metal Affinity Chromatography (IMAC) for Metalloproteomics and Phosphoproteomics. 2017 , 329-353	1
181	Sol-Gel Materials Used in Phosphoproteomics and Glycoproteomics Applications. 2017 ,	0
180	A novel IMAC platform [adenosine coupled functional magnetic microspheres for phosphoproteome research. 2018 , 10, 1190-1195	1
179	Improved mass spectrometric detection of acidic peptides by variations in the functional group pK values of reverse micelle extraction agents. 2018 , 143, 1434-1443	6
178	Pseudotargeted MS Method for the Sensitive Analysis of Protein Phosphorylation in Protein Complexes. 2018 , 90, 6214-6221	8

177	Mapping the tumour human leukocyte antigen (HLA) ligandome by mass spectrometry. 2018 , 154, 331-345	57
176	Determination of Site-Specific Phosphorylation Ratios in Proteins with Targeted Mass Spectrometry. 2018 , 17, 1654-1663	11
175	Enrichment of intact phosphoproteins using immobilized titanium(IV) affinity chromatography microspheres. 2018 , 1, 93-99	3
174	Phosphoproteomics-Based Profiling of Kinase Activities in Cancer Cells. 2018 , 1711, 103-132	14
173	Methods and approaches to disease mechanisms using systems kinomics. 2018 , 3, 34-43	5
172	Adenosine Phosphate Functionalized Magnetic Mesoporous Graphene Oxide Nanocomposite for Highly Selective Enrichment of Phosphopeptides. 2018 , 6, 2188-2196	59
171	Novel functionalized nanomaterials for the effective enrichment of proteins and peptides with post-translational modifications. 2018 , 181, 170-189	7
170	Hydrophilic probe in mesoporous pore for selective enrichment of endogenous glycopeptides in biological samples. 2018 , 1024, 84-92	39
169	A fast sample processing strategy for large-scale profiling of human urine phosphoproteome by mass spectrometry. 2018 , 185, 166-173	6
168	New Ti-IMAC magnetic polymeric nanoparticles for phosphopeptide enrichment from complex real samples. 2018 , 178, 274-281	33
167	Identification of pyridoxal phosphate-modified proteins using mass spectrometry. 2018 , 32, 195-200	3
166	TiO with Tandem Fractionation (TAFT): An Approach for Rapid, Deep, Reproducible, and High-Throughput Phosphoproteome Analysis. 2018 , 17, 710-721	16
165	A Step-Up LC-MS/MS for Proteomics. 2018 , 377-414	
164	Multishell hybrid magnetic nanoparticles for phosphopeptide enrichment. 2018 ,	
163	Selective Enrichment of Phosphopeptides and Phospholipids from Biological Matrixes on TiO Nanowire Arrays for Direct Molecular Characterization by Internal Extractive Electrospray Ionization Mass Spectrometry. 2018 , 90, 12101-12107	17
162	Enrichment of Phosphorylated Peptides with Metal-Organic Framework Nanosheets for Serum Profiling of Diabetes and Phosphoproteomics Analysis. 2018 , 90, 13796-13805	41
161	High-throughput and high-sensitivity phosphoproteomics with the EasyPhos platform. <i>Nature Protocols</i> , 2018 , 13, 1897-1916	18.8 116
160	In vivo phosphoproteomics reveals kinase activity profiles that predict treatment outcome in triple-negative breast cancer. 2018 , 9, 3501	26

159	Highly Specific Enrichment of Multi-phosphopeptides by the Diphosphorylated Fructose-Modified Dual-Metal-Centered Zirconium-Organic Framework. 2018 , 10, 32613-32621	33
158	The divide and conquer strategies for deep phosphoproteomics analysis. 2018 , 105, 282-291	6
157	Facile synthesis of titanium (IV) ion immobilized adenosine triphosphate functionalized silica nanoparticles for highly specific enrichment and analysis of intact phosphoproteins. 2018 , 1564, 69-75	14
156	A System-wide Approach to Monitor Responses to Synergistic BRAF and EGFR Inhibition in Colorectal Cancer Cells. 2018 , 17, 1892-1908	7
155	Preparation of magnetic microspheres functionalized by lanthanide oxides for selective isolation of bovine hemoglobin. 2018 , 190, 210-218	19
154	Foot-and-Mouth Disease Virus Counteracts on Internal Ribosome Entry Site Suppression by G3BP1 and Inhibits G3BP1-Mediated Stress Granule Assembly Post-Translational Mechanisms. 2018 , 9, 1142	23
153	S100A4 Macrophages Are Necessary for Pulmonary Fibrosis by Activating Lung Fibroblasts. 2018 , 9, 1776	34
152	High-Throughput Phosphorylation Screening and Validation through Ti(IV)-Nanopolymer Functionalized Reverse Phase Phosphoprotein Array. 2018 , 90, 10263-10270	3
151	Recent advances in covalent organic frameworks for separation and analysis of complex samples. 2018 , 108, 98-109	57
150	A porous graphene sorbent coated with titanium(IV)-functionalized polydopamine for selective lab-in-syringe extraction of phosphoproteins and phosphopeptides. 2018 , 185, 316	36
149	Isolation of mitotic chromosomes from vertebrate cells and characterization of their proteome by mass spectrometry. 2018 , 144, 329-348	2
148	Dual-Functional Titanium(IV) Immobilized Metal Affinity Chromatography Approach for Enabling Large-Scale Profiling of Protein Mannose-6-Phosphate Glycosylation and Revealing Its Predominant Substrates. 2019 , 91, 11589-11597	19
147	PhoX: An IMAC-Enrichable Cross-Linking Reagent. 2019 , 5, 1514-1522	55
146	Epitope Imprinting Technology: Progress, Applications, and Perspectives toward Artificial Antibodies. 2019 , 31, e1902048	67
145	Epitope-imprinted mesoporous silica nanoparticles for specific recognition of tyrosine phosphorylation. 2019 , 55, 9927-9930	19
144	Finding the Sweet Spot in ERLIC Mobile Phase for Simultaneous Enrichment of N-Glyco and Phosphopeptides. 2019 , 30, 2491-2501	17
143	Comparative Quantitative Phosphoproteomic Analysis of the Chicken Egg during Incubation Based on Tandem Mass Tag Labeling. 2019 , 67, 13353-13361	14
142	Effect of shell structure of Ti-immobilized metal ion affinity chromatography core-shell magnetic particles for phosphopeptide enrichment. 2019 , 9, 15782	4

141	Challenges and Advances in the Fabrication of Monolithic Bioseparation Materials and their Applications in Proteomics Research. 2019 , 31, e1902023	34
140	Quantitative proteomic and phosphoproteomic studies reveal novel 5-fluorouracil resistant targets in hepatocellular carcinoma. 2019 , 208, 103501	7
139	Phytic acid functionalized FeO nanoparticles loaded with Ti(IV) ions for phosphopeptide enrichment in mass spectrometric analysis. 2019 , 186, 68	18
138	Ti (IV) attached-phosphonic acid functionalized capillary monolith as a stationary phase for in-syringe-type fast and robust enrichment of phosphopeptides. 2019 , 33, e4488	7
137	Highly Selective Capture of Monophosphopeptides by Two-Dimensional Metal-Organic Framework Nanosheets. 2019 , 91, 9093-9101	22
136	Systems-level Analysis Reveals Multiple Modulators of Epithelial-mesenchymal Transition and Identifies DNAJB4 and CD81 as Novel Metastasis Inducers in Breast Cancer. 2019 , 18, 1756-1771	19
135	Single-Shot Capillary Zone Electrophoresis-Tandem Mass Spectrometry Produces over 4400 Phosphopeptide Identifications from a 220 ng Sample. 2019 , 18, 3166-3173	14
134	Quantitative Phosphoproteomic and Physiological Analyses Provide Insights into the Formation of the Variegated Leaf in. 2019 , 20,	2
133	Facile liquid-phase deposition synthesis of titania-coated magnetic sporopollenin for the selective capture of phosphopeptides. 2019 , 411, 3373-3382	8
132	FGFR4 phosphorylates MST1 to confer breast cancer cells resistance to MST1/2-dependent apoptosis. 2019 , 26, 2577-2593	23
131	Phosphatase inhibitor PPP1R11 modulates resistance of human T cells toward Treg-mediated suppression of cytokine expression. 2019 , 106, 413-430	6
130	One-step preparation of phosphate-rich carbonaceous spheres via a hydrothermal approach for phosphopeptide analysis. 2019 , 21, 2052-2060	20
129	Talin-mediated force transmission and talin rod domain unfolding independently regulate adhesion signaling. 2019 , 132,	26
128	An Integrated Global Analysis of Compartmentalized HRAS Signaling. 2019 , 26, 3100-3115.e7	22
127	Isolation and identification of phosphorylated lysine peptides by retention time difference combining dimethyl labeling strategy. 2019 , 62, 708-712	5
126	Milk digestion peptidomics: Tracking caseinophosphopeptides in simulated gastrointestinal digestion. 2019 , 28, 143-150	3
125	A chemoenzymatic approach enables the site-specific conjugation of recombinant proteins. 2019 , 40, 2125-2128	
124	Phosphoproteomic analyses of kidneys of Atlantic salmon infected with <i>Aeromonas salmonicida</i> . 2019 , 9, 2101	2

123	Rapid enrichment of peptides with calcium-chelating capacity and characterization of physical chemical properties. 2019 , 48, 466-476	0
122	Boronate affinity mesoporous silica nanoparticle based selective enrichment for highly efficient analysis of ginsenosides. 2019 , 11, 5673-5679	3
121	Titanium(IV)-functionalized zirconium-organic frameworks as dual-metal affinity probe for recognition of endogenous phosphopeptides prior to mass spectrometric quantification. 2019 , 186, 829	10
120	Elucidating essential kinases of endothelin signalling by logic modelling of phosphoproteomics data. 2019 , 15, e8828	6
119	Capillary Zone Electrophoresis-Tandem Mass Spectrometry for Large-Scale Phosphoproteomics with the Production of over 11,000 Phosphopeptides from the Colon Carcinoma HCT116 Cell Line. 2019 , 91, 2201-2208	22
118	Sol-gel preparation of titanium (IV)-immobilized hierarchically porous organosilica hybrid monoliths. 2019 , 1046, 199-207	13
117	Phosphoproteome profiling revealed abnormally phosphorylated AMPK and ATF2 involved in glucose metabolism and tumorigenesis of GH-PAs. 2019 , 42, 137-148	6
116	Integrating phosphoproteomics into kinase-targeted cancer therapies in precision medicine. 2019 , 191, 68-79	20
115	Time-resolved phosphoproteomic analysis elucidates hepatic 11,12-Epoxyeicosatrienoic acid signaling pathways. 2020 , 146, 106387	1
114	Nucleoside Isolation Performance of Ti4+/Zr4+ Immobilized Polydopamine Coated, Monodisperse-Porous Titania Microbeads. 2020 , 30, 2863-2871	2
113	Application of polydopamine-coated nylon capillary-channeled polymer fibers as a stationary phase for mass spectrometric phosphopeptide analysis. 2020 , 41, 215-224	4
112	Dynamic Phosphoproteome Profiling of Zebrafish Embryonic Fibroblasts during Cold Acclimation. 2020 , 20, e1900257	4
111	Profiling of post-translational modifications by chemical and computational proteomics. 2020 , 56, 13506-13519	6
110	Glass Fiber-Supported Hybrid Monolithic Spin Tip for Enrichment of Phosphopeptides from Urinary Extracellular Vesicles. 2020 , 92, 14790-14797	5
109	A New Workflow for the Analysis of Phosphosite Occupancy in Paired Samples by Integration of Proteomics and Phosphoproteomics Data Sets. 2020 , 19, 3807-3816	1
108	Mitochondrial CaMKII causes adverse metabolic reprogramming and dilated cardiomyopathy. 2020 , 11, 4416	22
107	Magnetic metal phenolic networks: expanding the application of a promising nanoprobe to phosphoproteomics research. 2020 , 56, 11299-11302	9
106	Phosphoproteomics to Characterize Host Response During H3N2 Canine Influenza Virus Infection of Dog Lung. 2020 , 7, 585071	1

105	Unambiguous Phosphosite Localization through the Combination of Trypsin and LysargiNase Mirror Spectra in a Large-Scale Phosphoproteome Study. 2020 , 19, 2185-2194	3
104	Deconstruction of Heterogeneity of Size-Dependent Exosome Subpopulations from Human Urine by Profiling N-Glycoproteomics and Phosphoproteomics Simultaneously. 2020 , 92, 9239-9246	27
103	Affinity chromatography assisted comprehensive phosphoproteomics analysis of human saliva for lung cancer. 2020 , 1111, 103-113	7
102	Preparing molecularly imprinted nanoparticles of saponins via cooperative imprinting strategy. 2020 , 43, 2162-2171	7
101	Fluorescence Imaging of the Levels of Glycosylation and Phosphorylation by a MOF-Based Nanoprobe in Depressed Mice. 2020 , 92, 3716-3721	15
100	Peptidomic analyses: The progress in enrichment and identification of endogenous peptides. 2020 , 125, 115835	16
99	Global Phosphoproteomic Analysis Reveals Significant Metabolic Reprogramming in the Termination of Liver Regeneration in Mice. 2020 , 19, 1788-1799	2
98	Ionic liquid-assisted protein extraction method for plant phosphoproteome analysis. 2020 , 213, 120848	6
97	Dynamic expression of intra- and extra-cellular proteome and the influence of epiphytic bacteria for Nostoc flagelliforme in response to rehydration. 2020 , 22, 1251-1264	2
96	Mass Spectrometry-Based Identification of Phospho-Tyr in Plant Proteomics. 2020 , 19, 561-571	6
95	Deciphering MET-dependent modulation of global cellular responses to DNA damage by quantitative phosphoproteomics. 2020 , 14, 1185-1206	3
94	Tumour kinome re-wiring governs resistance to palbociclib in oestrogen receptor positive breast cancers, highlighting new therapeutic modalities. 2020 , 39, 4781-4797	22
93	WIDENING THE BOTTLENECK OF PHOSPHOPROTEOMICS: EVOLVING STRATEGIES FOR PHOSHOPEPTIDE ENRICHMENT. 2021 , 40, 309-333	26
92	Sn-based metal-organic framework for highly selective capture of monophosphopeptides. 2021 , 224, 121812	4
91	Zirconium(IV)-IMAC Revisited: Improved Performance and Phosphoproteome Coverage by Magnetic Microparticles for Phosphopeptide Affinity Enrichment. 2021 , 20, 453-462	10
90	Facile preparation of bifunctional adsorbents for efficiently enriching N-glycopeptides and phosphopeptides. 2021 , 1144, 111-120	10
89	Relative Quantification of Phosphorylated and Glycosylated Peptides from the Same Sample Using Isobaric Chemical Labelling with a Two-Step Enrichment Strategy. 2021 , 2228, 185-203	1
88	Metal-organic frameworks as advanced materials for sample preparation of bioactive peptides. 2021 , 13, 862-873	6

87	Fabrication of a reusable bifunctional biomimetic Ti ⁴⁺ -phosphorylated cellulose monolith with a coral-like structure for enrichment of phosphorylated and glycosylated peptides.	2
86	Application of Nanomaterials to Separation of Phosphorylated Proteins. 2021 , 79-178	
85	Post-translational modification control of viral DNA sensors and innate immune signaling. 2021 , 109, 163-199	1
84	Label-Free Quantitative Phosphoproteomics of the Fission Yeast Using Strong Anion Exchange- and Porous Graphitic Carbon-Based Fractionation Strategies. 2021 , 22,	3
83	Advances in quantitative high-throughput phosphoproteomics with sample multiplexing. 2021 , 21, e2000140	9
82	Carnosine functionalized magnetic metal-organic framework nanocomposites for synergistic enrichment of phosphopeptides. 2021 , 1157, 338383	5
81	Phosphonate-Functionalized Ionic Liquid: A New Surface Modifier Contributing to the Enhanced Enrichment of Phosphorylated Peptides. 2021 , 9, 7930-7940	4
80	Dual-Functional Ti(IV)-IMAC Material Enables Simultaneous Enrichment and Separation of Diverse Glycopeptides and Phosphopeptides. 2021 , 93, 8568-8576	7
79	Skeletal muscle proteomes reveal downregulation of mitochondrial proteins in transition from prediabetes into type 2 diabetes. 2021 , 24, 102712	1
78	Phosphoproteomic analysis of duck egg yolk provides novel insights into its characteristics and biofunctions. 2021 ,	0
77	Physical and functional interactome atlas of human receptor tyrosine kinases.	1
76	Facile synthesis of Ti-immobilized magnetic covalent organic frameworks for enhanced phosphopeptide enrichment. 2021 , 235, 122789	0
75	Comparative evaluation of MAX-TiAlC and MXene-TiC as affinity chromatographic materials for highly selective enrichment of phosphopeptides. 2021 , 13, 2923-2930	5
74	An Overview of Proteomics and Related Nanomaterials. 2021 , 1-35	
73	Biomacromolecule-Gated Mesoporous Silica Drug Delivery Systems for Stimuli-Responsive Controlled Release. 67-92	3
72	Evaluation of serum phosphopeptides as potential biomarkers of gastric cancer. 2017 , 7, 21630-21637	6
71	Zirconium(IV)-IMAC for phosphopeptide enrichment in phosphoproteomics.	1
70	Phosphoproteomics reveals novel modes of function and inter-relationships among PIKKs in response to genotoxic stress. 2021 , 40, e104400	14

69	Synthetic Siglec-9 Agonists Inhibit Neutrophil Activation Associated with COVID-19. 2020 ,	4
68	The cGMP-Dependent Protein Kinase 2 Contributes to Cone Photoreceptor Degeneration in the -Deficient Mouse Model of Achromatopsia. 2020 , 22,	5
67	[Affinity chromatography based phosphoproteome research on lung cancer cells and its application]. 2021 , 39, 77-86	
66	Strategies for mass spectrometry-based phosphoproteomics using isobaric tagging. 2021 , 18, 795-807	2
65	Systems approach reveals distinct and shared signaling networks of the four PGE receptors in T cells. 2021 , 14, eabc8579	1
64	A system-wide approach to monitor responses to synergistic BRAF and EGFR inhibition in colorectal cancer cells.	
63	A system-wide approach to monitor responses to synergistic BRAF and EGFR inhibition in colorectal cancer cells.	
62	FGFR4 phosphorylates MST1 to confer breast cancer cells resistance to MST1/2-dependent apoptosis.	
61	PhoX Is an IMAC-enrichable Crosslinking Reagent.	
60	Mitochondrial CaMKII causes metabolic reprogramming, energetic insufficiency, and dilated cardiomyopathy.	
59	Chronic Activation of AMPK Induces Mitochondrial Biogenesis through Differential Phosphorylation and Abundance of Mitochondrial Proteins in. 2021 , 22,	
58	SARS-CoV-2-host proteome interactions for antiviral drug discovery. 2021 , 17, e10396	5
57	Mammalian-unique eIF4E2 maintains GSK3 β proline kinase activity to resist senescence against hypoxia.	
56	Surfactant-mediated synthesis of monodisperse Poly(benzyl methacrylate)-based copolymer microspheres. 2022 , 633, 127870	1
55	Facile "one-pot" preparation of phosphonate functional polythiophene based microsphere via Friedel-Crafts reaction for selective enrichment of phosphopeptides from milk. 2022 , 1190, 339268	2
54	Immobilized Titanium (IV) Ion Affinity Chromatography Contributes to Efficient Proteomics Analysis of Cellular Nucleic Acid-Binding Proteins. 2021 ,	0
53	Molecularly Imprinted and Cladded Nanoparticles Provide Better Phosphorylation Recognition. 2021 , 93, 16194-16202	0
52	Free-standing lamellar 3D architectures assembled from chitosan as a reusable titanium-immobilized affinity membrane for efficiently capturing phosphopeptides. 2022 , 24, 238-250	2

51	6-Shogaol Inhibits Oxidative Stress-Induced Rat Vascular Smooth Muscle Cell Apoptosis by Regulating OXR1-p53 Axis.. 2022 , 9, 808162	0
50	Highly efficient enrichment of intact phosphoproteins by a cadmium ion-based co-precipitation strategy.. 2022 ,	0
49	Synergistic synthesis of hydrophilic hollow zirconium organic frameworks for simultaneous recognition and capture of phosphorylated and glycosylated peptides.. 2022 , 1198, 339552	5
48	Quantitative Phosphoproteomics to Study cAMP Signaling.. 2022 , 2483, 281-296	
47	Design and fabrication of reusable core-shell composite microspheres based on nanodiamond for selective enrichment of phosphopeptides.. 2022 , 189, 124	1
46	A Tyrosine Phosphoproteome Analysis Approach Enabled by Selective Dephosphorylation with Protein Tyrosine Phosphatase.. 2022 ,	1
45	Titanium(IV) immobilized affinity chromatography facilitated phosphoproteomics analysis of salivary extracellular vesicles for lung cancer.. 2022 , 1	0
44	Metal organic frameworks as advanced extraction adsorbents for separation and analysis in proteomics and environmental research. 2022 , 65, 650-677	2
43	Physical and functional interactome atlas of human receptor tyrosine kinases.. 2022 , e54041	0
42	Fe-NTA magnetic beads as an alternative to spin column-based phosphopeptide enrichment.. 2022 , 260, 104561	2
41	Combined Quantitative (Phospho)proteomics and Mass Spectrometry Imaging Reveal Temporal and Spatial Protein Changes in Human Intestinal Ischemia-Reperfusion. 2021 ,	3
40	Robust Titanium Phenolate-Modified Microspheres as Reusable Affinity Materials for Selectively Capturing Phosphopeptides from Complicated Biosamples. 2021 , 9, 17025-17033	1
39	Inherently hydrophilic mesoporous channel coupled with metal oxide for fishing endogenous salivary glycopeptides and phosphopeptides. 2021 ,	1
38	Phosphoproteomics Sample Preparation Impacts Biological Interpretation of Phosphorylation Signaling Outcomes.. 2021 , 10,	1
37	Serum Phosphopeptides Profiling for Colorectal Cancer Diagnosis Using Liquid Chromatography-Mass Spectrometry.. 2022 , e9316	
36	TiO with Confined Water Boosts Ultrahigh Selective Enrichment of Phosphorylated Proteins.. 2022 ,	
35	Presentation_1.zip. 2018 ,	
34	data_sheet_1.PDF. 2018 ,	

- 33 Data_Sheet_1.ZIP. **2020**,
- 32 [Preparation of luminescent silica nanoparticles with immobilized metal ion affinity for labeling phosphorylated proteins in Western Blot]. **2021**, 39, 384-390
- 31 Functional metal-organic framework as high-performance adsorbent for selective enrichment of pharmaceutical contaminants in aqueous samples. **2022**, 445, 136751 ○
- 30 Mammalian eIF4E2-GSK3 β maintains basal phosphorylation of p53 to resist senescence under hypoxia.. **2022**, 13, 459
- 29 Robust Dual-Biomimetic Titanium Dioxide-Cellulose Monolith for Enrichment of Phosphopeptides. ○
- 28 Mass spectrometry-based retina proteomics.
- 27 Isoform-specific recognition of phosphopeptides by molecular imprinting nanoparticles with double-binding mode. **2022**, 1219, 340034 ○
- 26 Development of new lanthanide(iii) ion-based magnetic affinity materials for phosphopeptide enrichment.
- 25 A time-resolved multi-omics atlas of Acanthamoeba castellanii encystment. **2022**, 13, 1 ○
- 24 Phospho-proteomics reveals that RSK signaling is required for proliferation of natural killer cells stimulated with IL-2 or IL-15. **2022**, 157, 155958
- 23 Fabrication of hydrophilic titanium (IV)-immobilized polydispersed microspheres via inverse suspension polymerization for enrichment of phosphopeptides in milk. **2022**, 395, 133608 1
- 22 Proteome and phosphoproteome signatures of recurrence for HPV+ head and neck squamous cell carcinoma. **2022**, 2,
- 21 Probing region-resolved heterogeneity of phosphoproteome in human lens by hybrid metal organic frameworks. **2022**,
- 20 Phosphoproteome profiling of mouse liver during normal aging. **2022**, 20, ○
- 19 Simultaneous enrichment and sequential separation of O-linked glycopeptides and phosphopeptides with immobilized titanium (IV) ion affinity chromatography materials. **2022**, 1681, 463462 ○
- 18 In-Situ Digestion Assisted Multi-Template Imprinted Nanoparticles for Efficient Analysis of Protein Phosphorylation. ○
- 17 Inhibition of PP2A by LB100 sensitizes bladder cancer cells to chemotherapy by inducing p21 degradation. ○
- 16 Quantitative phosphoproteomics analysis uncovers PAK2 and CDK1 mediated malignant signaling pathways in clear cell Renal Cell Carcinoma. **2022**, 100417 ○

- 15 Phosphoproteomics of extracellular vesicles integrated with multiomics analysis reveals novel kinase networks for lung cancer. ○
- 14 Monodisperse Ti4+-immobilized macroporous adsorbent resins with polymer brush for improved multi-phosphopeptides enrichment in milk. **2022**, 189, ○
- 13 Proteomics and phosphoproteomics analysis of tissues for the reoccurrence prediction of colorectal cancer. ○
- 12 Ti(IV) immobilized bisphosphate fructose-modified magnetic Zr metal organic framework (MOF) for specific enrichment of phosphopeptides. **2023**, 305, 122426 ○
- 11 A multi-omics study to characterize the transdifferentiation of human dermal fibroblasts to osteoblast-like cells. 9, ○
- 10 Understanding of Networks In Vitro and/or In Vivo. **2016**, 344-355 ○
- 9 Recent advances in metal oxide affinity chromatography materials for phosphoproteomics. **2023**, 158, 116881 ○
- 8 An alkali-resistant zirconium-biligand organic framework with dual-metal centers for highly selective capture of phosphopeptides. **2022**, 148, 85-94 ○
- 7 Materials, workflows and applications of IMAC for phosphoproteome profiling in the recent decade: A review. **2023**, 158, 116862 ○
- 6 Three-Dimensional MAX-Ti3AlC2 Nanomaterials for Dual-Selective and Highly Efficient Enrichment of Phosphorylated and Glycosylated Peptides. ○
- 5 An oncogene addiction phosphorylation signature and its derived scores inform tumor responsiveness to targeted therapies. **2023**, 80, ○
- 4 Regulation of autophagy and lipid accumulation under phosphate limitation in *Rhodotorula toruloides*. 13, ○
- 3 Advances in phosphoproteomics and its application to COPD. **2022**, 19, 311-324 ○
- 2 Simultaneous enrichment optimization of glycopeptides and phosphopeptides with the highly hydrophilic DZMOF-FDP. **2023**, 148, 1483-1491 ○
- 1 Using the Jurkat reporter T cell line for evaluating the functionality of novel chimeric antigen receptors. 3, ○