Kaiguang Yang

List of Publications by Year
in descending order

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Version: 2024-02-01

		136885	206029
82	2,644	32	48
papers	citations	h-index	g-index

85	85	85	2783
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	One-Pot Synthesis of Hydrophilic Molecularly Imprinted Nanoparticles. Macromolecules, 2009, 42, 8739-8746.	2.2	117
2	Epitope Imprinting Technology: Progress, Applications, and Perspectives toward Artificial Antibodies. Advanced Materials, 2019, 31, e1902048.	11.1	110
3	Boronic Acid Functionalized Coreâ€“Shell Polymer Nanoparticles Prepared by Distillation Precipitation Polymerization for Glycopeptide Enrichment. Chemistry - A European Journal, 2012, 18, 9056-9062.	1.7	101
4	New GOâ€“PEIâ€“Auâ€“<scp>l</scp>-Cys ZIC-HILIC composites: synthesis and selective enrichment of glycopeptides. Nanoscale, 2014, 6, 5616-5619.	2.8	98
5	Protein-imprinted materials: rational design, application and challenges. Analytical and Bioanalytical Chemistry, 2012, 403, 2173-2183.	1.9	92
6	Hydrophilic immobilized trypsin reactor with magnetic graphene oxide as support for high efficient proteome digestion. Journal of Chromatography A, 2012, 1254, 8-13.	1.8	88
7	Preparation of a new type of affinity materials combining metal coordination with molecular imprinting. Chemical Communications, 2011, 47, 3969.	2.2	87
8	Synthesis of adenosine functionalized metal immobilized magnetic nanoparticles for highly selective and sensitive enrichment of phosphopeptides. Chemical Communications, 2012, 48, 6274.	2.2	81
9	Aptamer Modified Organicâ€“Inorganic Hybrid Silica Monolithic Capillary Columns for Highly Selective Recognition of Thrombin. Analytical Chemistry, 2012, 84, 10186-10190.	3.2	81
10	Molecularly imprinted polyethersulfone microspheres for the binding and recognition of bisphenol A. Analytica Chimica Acta, 2005, 546, 30-36.	2.6	75
11	Surface-Imprinted Nanoparticles Prepared with a His-Tag-Anchored Epitope as the Template. Analytical Chemistry, 2015, 87, 4617-4620.	3.2	71
12	Thermoresponsive Epitope Surface-Imprinted Nanoparticles for Specific Capture and Release of Target Protein from Human Plasma. ACS Applied Materials & Interfaces, 2016, 8, 5747-5751.	4.0	65
13	Epitope imprinted polyethersulfone beads by self-assembly for target protein capture from the plasma proteome. Chemical Communications, 2014, 50, 9521-9524.	2.2	59
14	Preparation of protein imprinted materials by hierarchical imprinting techniques and application in selective depletion of albumin from human serum. Scientific Reports, 2014, 4, 5487.	1.6	55
15	3-Carboxybenzoboroxole Functionalized Polyethylenimine Modified Magnetic Graphene Oxide Nanocomposites for Human Plasma Glycoproteins Enrichment under Physiological Conditions. Analytical Chemistry, 2018, 90, 2671-2677.	3.2	55
16	Surface Protein Imprinted Coreâ€“Shell Particles for High Selective Lysozyme Recognition Prepared by Reversible Additionâ€“Fragmentation Chain Transfer Strategy. ACS Applied Materials & Interfaces, 2014, 6, 21954-21960.	4.0	53
17	Clickable Periodic Mesoporous Organosilica Monolith for Highly Efficient Capillary Chromatographic Separation. Analytical Chemistry, 2016, 88, 1521-1525.	3.2	51
18	Boronic Acid-Functionalized Particles with Flexible Three-Dimensional Polymer Branch for Highly Specific Recognition of Glycoproteins. ACS Applied Materials & Interfaces, 2016, 8, 9552-9556.	4.0	50

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19	1-Dodecyl-3-Methylimidazolium Chloride-Assisted Sample Preparation Method for Efficient Integral Membrane Proteome Analysis. Analytical Chemistry, 2014, 86, 7544-7550.	3.2	47
20	An efficient approach to prepare boronate coreâ€“shell polymer nanoparticles for glycoprotein recognition via combined distillation precipitation polymerization and RAFT media precipitation polymerization. Chemical Communications, 2015, 51, 3896-3898.	2.2	47
21	Polyethyleneimine-modified graphene oxide nanocomposites for effective protein functionalization. Nanoscale, 2015, 7, 14284-14291.	2.8	46
22	Advances in exosome isolation methods and their applications in proteomic analysis of biological samples. Analytical and Bioanalytical Chemistry, 2019, 411, 5351-5361.	1.9	44
23	Preparation of porous polysulfone beads for selective removal of endocrine disruptors. Separation and Purification Technology, 2004, 40, 297-302.	3.9	42
24	Dendrimer-grafted graphene oxide nanosheets as novel support for trypsin immobilization to achieve fast on-plate digestion of proteins. Talanta, 2014, 122, 278-284.	2.9	42
25	Synthesis of Zwitterionic Polymer Particles via Combined Distillation Precipitation Polymerization and Click Chemistry for Highly Efficient Enrichment of Glycopeptide. ACS Applied Materials & Interfaces, 2016, 8, 22018-22024.	4.0	42
26	Aptamer functionalized hydrophilic polymer monolith with gold nanoparticles modification for the sensitive detection of human Iİ±-thrombin. Talanta, 2016, 154, 555-559.	2.9	41
27	Multiepitope Templates Imprinted Particles for the Simultaneous Capture of Various Target Proteins. Analytical Chemistry, 2016, 88, 5621-5625.	3.2	40
28	Artificial Antibody with Site-Enhanced Multivalent Aptamers for Specific Capture of Circulating Tumor Cells. Analytical Chemistry, 2019, 91, 2591-2594.	3.2	40
29	Hydrogen-bond interaction assisted branched copolymer HILIC material for separation and N-glycopeptides enrichment. Talanta, 2016, 158, 361-367.	2.9	38
30	High throughput tryptic digestion via poly (acrylamide-co-methylenebisacrylamide) monolith based immobilized enzyme reactor. Talanta, 2011, 83, 1748-1753.	2.9	36
31	BPA transfer rate increase using molecular imprinted polyethersulfone hollow fiber membrane. Journal of Membrane Science, 2008, 310, 38-43.	4.1	34
32	Macroporous molecularly imprinted monolithic polymer columns for protein recognition by liquid chromatography. Journal of Separation Science, 2010, 33, 2757-2761.	1.3	34
33	Metagenomic Analysis of the Diversity of DNA Viruses in the Surface and Deep Sea of the South China Sea. Frontiers in Microbiology, 2019, 10, 1951.	1.5	34
34	Epitope imprinting enhanced IMAC (EI-IMAC) for highly selective purification of His-tagged protein. Journal of Materials Chemistry B, 2016, 4, 1960-1967.	2.9	33
35	Mesoporous TiO2 aerogel for selective enrichment of phosphopeptides in rat liver mitochondria. Analytica Chimica Acta, 2012, 729, 26-35.	2.6	32
36	Antibodyâ€Free Hydrogel with the Synergistic Effect of Cell Imprinting and Boronate Affinity: Toward the Selective Capture and Release of Undamaged Circulating Tumor Cells. Small, 2020, 16, e1904199.	5.2	29

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37	Preparing a metal-ion chelated immobilized enzyme reactor based on the polyacrylamide monolith grafted with polyethylenimine for a facile regeneration and high throughput tryptic digestion in proteomics. Analytical and Bioanalytical Chemistry, 2012, 402, 703-710.	1.9	25
38	Monodisperse Boronate Polymeric Particles Synthesized by a Precipitation Polymerization Strategy: Particle Formation and Glycoprotein Response from the Standpoint of the Floryâ€“Huggins Model. ACS Applied Materials & Interfaces, 2014, 6, 2059-2066.	4.0	24
39	Aptamer-conjugated gold functionalized graphene oxide nanocomposites for human Î±-thrombin specific recognition. Journal of Chromatography A, 2016, 1427, 16-21.	1.8	24
40	â€œThiol-eneâ€•grafting of silica particles with three-dimensional branched copolymer for HILIC/cation-exchange chromatographic separation and N-glycopeptide enrichment. Analytical and Bioanalytical Chemistry, 2018, 410, 1019-1027.	1.9	24
41	Zirconium oxide aerogel for effective enrichment of phosphopeptides with high binding capacity. Analytical and Bioanalytical Chemistry, 2011, 399, 3399-3405.	1.9	22
42	Preparation of surface imprinted core-shell particles via a metal chelating strategy: specific recognition of porcine serum albumin. Mikrochimica Acta, 2016, 183, 345-352.	2.5	22
43	Preparation of DNA-encapsulated polyethersulfone hollow microspheres for organic compounds and heavy metal ions removal. Desalination, 2005, 175, 297-304.	4.0	20
44	Polyethersulfone dead-end tube as a scaffold for artificial lacrimal glandsin vitro. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2006, 78B, 409-416.	1.6	19
45	Effect of the template molecules and nonsolvent additives on the recognition property of molecular imprinted polyethersulfone particles. Journal of Applied Polymer Science, 2008, 108, 3859-3866.	1.3	19
46	DNA-loaded porous polyethersulfone particles for environmental applications I. preparation. Journal of Applied Polymer Science, 2005, 98, 1668-1673.	1.3	18
47	Polysulfoneâ€Activated Carbon Hybrid Particles for the Removal of BPA. Separation Science and Technology, 2006, 41, 515-529.	1.3	17
48	Self-Assembly Molecularly Imprinted Nanofiber for 4-HA Recognition. Analytical Letters, 2010, 43, 2790-2797.	1.0	16
49	Octylâ€functionalized hybrid magnetic mesoporous microspheres for enrichment of lowâ€concentration peptides prior to direct analysis by matrixâ€assisted laser desorption/ionization timeâ€ofâ€flight mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 1257-1265.	0.7	16
50	Facile preparation of monolithic immobilized metal affinity chromatography capillary columns for selective enrichment of phosphopeptides. Journal of Separation Science, 2011, 34, 2122-2130.	1.3	15
51	Exogenous artificial DNA forms chromatin structure with active transcription in yeast. Science China Life Sciences, 2021, , 1.	2.3	15
52	Preparation and selective binding characterization of Bisphenol A imprinted polyethersulfone particles. Journal of Applied Polymer Science, 2007, 106, 2791-2799.	1.3	14
53	Molecularly imprinted porous polysulfone particles for the binding and recognition of bisphenol A. Desalination, 2009, 245, 232-245.	4.0	14
54	A novel organic-inorganic hybrid monolith for trypsin immobilization. Science China Life Sciences, 2011, 54, 54-59.	2.3	14

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55	Aptamer-immobilized open tubular capillary column to capture circulating tumor cells for proteome analysis. Talanta, 2017, 175, 189-193.	2.9	14
56	Dandelion-like coreâ€“shell silica microspheres with hierarchical pores. RSC Advances, 2015, 5, 26269-26272.	1.7	13
57	Proteomics Investigations into Serum Proteins Adsorbed by Highâ€Flux and Lowâ€Flux Dialysis Membranes. Proteomics - Clinical Applications, 2017, 11, 1700079.	0.8	13
58	Surface sieving coordinated IMAC material for purification of His-tagged proteins. Analytica Chimica Acta, 2018, 997, 9-15.	2.6	13
59	Piperazines for peptide carboxyl group derivatization: effect of derivatization reagents and properties of peptides on signal enhancement in matrixâ€assisted laser desorption/ionization mass spectrometry. Rapid Communications in Mass Spectrometry, 2011, 25, 639-646.	0.7	12
60	DNA-loaded porous polyethersulfone particles for environmental applications II. Utilization. Journal of Applied Polymer Science, 2005, 98, 1674-1678.	1.3	11
61	Transferrin recognition based on a protein imprinted material prepared by hierarchical imprinting technique. Mikrochimica Acta, 2013, 180, 1379-1386.	2.5	11
62	Comprehensive Analysis of Protein N-Terminome by Guanidination of Terminal Amines. Analytical Chemistry, 2020, 92, 567-572.	3.2	11
63	DNA-immobilized porous polysulfone beads for organic compounds and heavy metal ion removal. Desalination, 2004, 170, 263-270.	4.0	10
64	Characterization of DNA-loaded porous polyethersulfone particles prepared by phase inversion technique. Colloid Journal, 2005, 67, 140-145.	0.5	9
65	Glycan Moieties as Bait to Fish Plasma Membrane Proteins. Analytical Chemistry, 2016, 88, 5065-5071.	3.2	9
66	Proteomics investigation of the changes in serum proteins after high- and low-flux hemodialysis. Renal Failure, 2018, 40, 506-513.	0.8	9
67	Cell-imprinted polydimethylsiloxane for the selective cell adhesion. Chinese Chemical Letters, 2019, 30, 672-675.	4.8	9
68	Urea free and more efficient sample preparation method for mass spectrometry based protein identification via combining the formic acid-assisted chemical cleavage and trypsin digestion. Talanta, 2011, 86, 429-435.	2.9	8
69	Glycoprotein recognition by water-compatible coreâ€“shell polymeric submicron particles. Journal of Materials Chemistry B, 2015, 3, 3927-3930.	2.9	8
70	Decrease of dynamic range of proteins in human plasma by ampholine immobilized polymer microspheres. Analytica Chimica Acta, 2014, 826, 43-50.	2.6	7
71	Proteomic study provides new clues for complications of hemodialysis caused by dialysis membrane. Science Bulletin, 2017, 62, 1251-1255.	4.3	7
72	Protein-imprinted material for the treatment of antibiotic-resistant bacteria. Science Bulletin, 2016, 61, 1890-1891.	4.3	6

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73	1-(3-Aminopropyl)-3-butylimidazolium bromide for carboxyl group derivatization: potential applications in high sensitivity peptide identification by mass spectrometry. Science China Life Sciences, 2013, 56, 240-245.	2.3	5
74	Ionic Liquid-Based Extraction System for In-Depth Analysis of Membrane Protein Complexes. Analytical Chemistry, 2022, 94, 758-767.	3.2	5
75	Surface Nanosieving Polyether Sulfone Particles with Graphene Oxide Encapsulation for the Negative Isolation toward Extracellular Vesicles. Analytical Chemistry, 2021, 93, 16835-16844.	3.2	5
76	An artificial antibody for exosome capture by dull template imprinting technology. Journal of Materials Chemistry B, 2022, 10, 6655-6663.	2.9	5
77	Correction: Epitope imprinting enhanced IMAC (EI-IMAC) for highly selective purification of His-tagged protein. Journal of Materials Chemistry B, 2016, 4, 2739-2739.	2.9	3
78	A rapid protein sample preparation method based on organic-aqueous microwave irradiation technique. Science China Chemistry, 2015, 58, 526-531.	4.2	2
79	Poly(ether sulfone) nanoparticles and controllably modified nanoparticles obtained through temperatureâ€dependent cryogelation. Journal of Applied Polymer Science, 2019, 136, 47485.	1.3	2
80	Ampholine immobilized polymer microspheres for increasing coverage of human urinary proteome. Talanta, 2020, 215, 120931.	2.9	2
81	Preparation of DNA Hybrid Polyethersulfone Microspheres for Endocrine Disruptor Removal. Key Engineering Materials, 2005, 288-289, 113-116.	0.4	1
82	Quantitative proteomics of epigenetic histone modifications in MCF-7 cells under estradiol stimulation. Analytical Methods, 2021, 13, 469-476.	1.3	0