

Hanyong Peng

List of Publications by Year in descending order

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47
papers

3,552
citations

159585

30
h-index

223800

46
g-index

49
all docs

49
docs citations

49
times ranked

3830
citing authors

#	ARTICLE	IF	CITATIONS
1	A microRNA-initiated DNAzyme motor operating in living cells. <i>Nature Communications</i> , 2017, 8, 14378.	12.8	448
2	Molecular Diagnosis of COVID-19: Challenges and Research Needs. <i>Analytical Chemistry</i> , 2020, 92, 10196-10209.	6.5	294
3	Separation/preconcentration of trace amounts of Cr, Cu and Pb in environmental samples by magnetic solid-phase extraction with Bismuthiol-II-immobilized magnetic nanoparticles and their determination by ICP-OES. <i>Talanta</i> , 2009, 77, 1579-1583.	5.5	190
4	DNAzyme-Mediated Assays for Amplified Detection of Nucleic Acids and Proteins. <i>Analytical Chemistry</i> , 2018, 90, 190-207.	6.5	176
5	Isothermal Amplification and Ambient Visualization in a Single Tube for the Detection of SARS-CoV-2 Using Loop-Mediated Amplification and CRISPR Technology. <i>Analytical Chemistry</i> , 2020, 92, 16204-16212.	6.5	172
6	Simultaneous speciation analysis of inorganic arsenic, chromium and selenium in environmental waters by 3-(2-aminoethylamino) propyltrimethoxysilane modified multi-wall carbon nanotubes packed microcolumn solid phase extraction and ICP-MS. <i>Talanta</i> , 2015, 131, 266-272.	5.5	161
7	Binding-Induced DNA Nanomachines Triggered by Proteins and Nucleic Acids. <i>Angewandte Chemie - International Edition</i> , 2015, 54, 14326-14330.	13.8	158
8	Signal Amplification in Living Cells: A Review of microRNA Detection and Imaging. <i>Analytical Chemistry</i> , 2020, 92, 292-308.	6.5	148
9	CRISPR technology incorporating amplification strategies: molecular assays for nucleic acids, proteins, and small molecules. <i>Chemical Science</i> , 2021, 12, 4683-4698.	7.4	145
10	Dithizone modified magnetic nanoparticles for fast and selective solid phase extraction of trace elements in environmental and biological samples prior to their determination by ICP-OES. <i>Talanta</i> , 2012, 88, 507-515.	5.5	139
11	Comparative cytotoxicity of fourteen trivalent and pentavalent arsenic species determined using real-time cell sensing. <i>Journal of Environmental Sciences</i> , 2016, 49, 113-124.	6.1	131
12	A Target-Triggered DNAzyme Motor Enabling Homogeneous, Amplified Detection of Proteins. <i>Analytical Chemistry</i> , 2017, 89, 12888-12895.	6.5	114
13	Arsenic speciation analysis: A review with an emphasis on chromatographic separations. <i>TrAC - Trends in Analytical Chemistry</i> , 2020, 123, 115770.	11.4	98
14	Magnetic solid phase microextraction on a microchip combined with electrothermal vaporization-inductively coupled plasma mass spectrometry for determination of Cd, Hg and Pb in cells. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1931.	3.0	93
15	Fast and selective magnetic solid phase extraction of trace Cd, Mn and Pb in environmental and biological samples and their determination by ICP-MS. <i>Mikrochimica Acta</i> , 2011, 175, 121-128.	5.0	78
16	Light-induced pH change and its application to solid phase extraction of trace heavy metals by high-magnetization Fe ₃ O ₄ @SiO ₂ @TiO ₂ nanoparticles followed by inductively coupled plasma mass spectrometry detection. <i>Talanta</i> , 2012, 94, 278-283.	5.5	68
17	Integrating Reverse Transcription Recombinase Polymerase Amplification with CRISPR Technology for the One-Tube Assay of RNA. <i>Analytical Chemistry</i> , 2021, 93, 12808-12816.	6.5	63
18	Arsenic Metabolites, Including <i>N</i> -Acetyl-4-hydroxy-m-arsanilic Acid, in Chicken Litter from a Roxarsone-Feeding Study Involving 1600 Chickens. <i>Environmental Science & Technology</i> , 2016, 50, 6737-6743.	10.0	60

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19	Methylated and thiolated arsenic species for environmental and health research – A review on synthesis and characterization. <i>Journal of Environmental Sciences</i> , 2016, 49, 7-27.	6.1	51
20	Arsenic Species in Chicken Breast: Temporal Variations of Metabolites, Elimination Kinetics, and Residual Concentrations. <i>Environmental Health Perspectives</i> , 2016, 124, 1174-1181.	6.0	50
21	Speciation of arsenic – A review of phenylarsenicals and related arsenic metabolites. <i>TrAC - Trends in Analytical Chemistry</i> , 2018, 104, 171-182.	11.4	50
22	Liquid chromatography combined with atomic and molecular mass spectrometry for speciation of arsenic in chicken liver. <i>Journal of Chromatography A</i> , 2014, 1370, 40-49.	3.7	48
23	Immunoaffinity monolithic capillary microextraction coupled with ICP-MS for immunoassay with quantum dot labels. <i>Journal of Analytical Atomic Spectrometry</i> , 2010, 25, 1674.	3.0	46
24	Nucleic acid aptamers improving fluorescence anisotropy and fluorescence polarization assays for small molecules. <i>TrAC - Trends in Analytical Chemistry</i> , 2019, 110, 401-409.	11.4	44
25	Nanoparticle labelling-based magnetic immunoassay on chip combined with electrothermal vaporization - inductively coupled plasma mass spectrometry for the determination of carcinoembryonic antigen in human serum. <i>Analyst</i> , 2011, 136, 3934.	3.5	42
26	Enzyme-assisted extraction and liquid chromatography mass spectrometry for the determination of arsenic species in chicken meat. <i>Analytica Chimica Acta</i> , 2015, 888, 1-9.	5.4	41
27	Azidophenylarsenoxide: An Arsenical Bait for the In Situ Capture and Identification of Cellular Arsenic-Binding Proteins. <i>Angewandte Chemie - International Edition</i> , 2016, 55, 14051-14056.	13.8	40
28	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 6773-6777.	13.8	39
29	An improved SELEX technique for selection of DNA aptamers binding to M-type 11 of <i>Streptococcus pyogenes</i> . <i>Methods</i> , 2016, 97, 51-57.	3.8	35
30	Magnetic quantitative immunoanalysis of carcinoembryonic antigen by ICP-MS with mercury labels. <i>Journal of Analytical Atomic Spectrometry</i> , 2011, 26, 1217.	3.0	33
31	Binding-Induced DNA Dissociation Assay for Small Molecules: Sensing Aflatoxin B1. <i>ACS Sensors</i> , 2018, 3, 2590-2596.	7.8	29
32	Aminopropyltriethoxysilane-silica hybrid monolithic capillary microextraction combined with inductively coupled plasma mass spectrometry for the determination of trace elements in biological samples. <i>Journal of Separation Science</i> , 2011, 34, 2247-2254.	2.5	28
33	Biotransformation of arsenic-containing roxarsone by an aerobic soil bacterium <i>Enterobacter</i> sp. CZ-1. <i>Environmental Pollution</i> , 2019, 247, 482-487.	7.5	28
34	Aptamer binding assays and molecular interaction studies using fluorescence anisotropy - A review. <i>Analytica Chimica Acta</i> , 2020, 1125, 267-278.	5.4	26
35	A Genome-Editing Nanomachine Constructed with a Clustered Regularly Interspaced Short Palindromic Repeats System and Activated by Near-Infrared Illumination. <i>ACS Nano</i> , 2020, 14, 2817-2826.	14.6	23
36	Binding-Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 11104-11109.	13.8	23

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37	Magnetic quantitative analysis for multiplex glycoprotein with polymer-based elemental tags. <i>Journal of Analytical Atomic Spectrometry</i> , 2014, 29, 1112.	3.0	19
38	The Effects of SELEX Conditions on the Resultant Aptamer Pools in the Selection of Aptamers Binding to Bacterial Cells. <i>Journal of Molecular Evolution</i> , 2015, 81, 194-209.	1.8	19
39	Ti-containing mesoporous silica packed microcolumn separation/preconcentration combined with inductively coupled plasma-mass spectrometry for the determination of trace Cr, Cu, Cd and Pb in environmental samples. <i>Journal of Analytical Atomic Spectrometry</i> , 2015, 30, 1386-1394.	3.0	16
40	Quantitative synthesis of protein-DNA conjugates with 1:1 stoichiometry. <i>Chemical Communications</i> , 2018, 54, 7491-7494.	4.1	16
41	Consumption of rice and fish in an electronic waste recycling area contributes significantly to total daily intake of mercury. <i>Journal of Environmental Sciences</i> , 2015, 38, 83-86.	6.1	14
42	Multi-wall carbon nanotubes chemically modified silica microcolumn preconcentration/separation combined with inductively coupled plasma optical emission spectrometry for the determination of trace elements in environmental waters. <i>International Journal of Environmental Analytical Chemistry</i> , 2016, 96, 212-224.	3.3	9
43	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. <i>Angewandte Chemie</i> , 2017, 129, 6877-6881.	2.0	7
44	Simultaneous removal of arsenic and antimony from mining wastewater. <i>Journal of Environmental Sciences</i> , 2020, 93, 117-119.	6.1	7
45	Azidophenylarsenoxide: An Arsenical Bait for the In Situ Capture and Identification of Cellular Arsenical Binding Proteins. <i>Angewandte Chemie</i> , 2016, 128, 14257-14262.	2.0	3
46	Titelbild: Methylated Phenylarsenical Metabolites Discovered in Chicken Liver (<i>Angew. Chem.</i> 24/2017). <i>Angewandte Chemie</i> , 2017, 129, 6779-6779.	2.0	1
47	Binding-Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. <i>Angewandte Chemie</i> , 2021, 133, 11204-11209.	2.0	0