Hanyong Peng

List of Publications by Year
in descending order

47	3,552	159358	223531
papers	citations	30 h-index	46 g-index

49	49	49	3830
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A microRNA-initiated DNAzyme motor operating in living cells. Nature Communications, 2017, 8, 14378.	5.8	448
2	Molecular Diagnosis of COVID-19: Challenges and Research Needs. Analytical Chemistry, 2020, 92, 10196-10209.	3.2	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. Talanta, 2009, 77, 1579-1583.	2.9	190
4	DNAzyme-Mediated Assays for Amplified Detection of Nucleic Acids and Proteins. Analytical Chemistry, 2018, 90, 190-207.	3.2	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. Analytical Chemistry, 2020, 92, 16204-16212.	3.2	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. Talanta, 2015, 131, 266-272.	2.9	161
7	Bindingâ€Induced DNA Nanomachines Triggered by Proteins and Nucleic Acids. Angewandte Chemie - International Edition, 2015, 54, 14326-14330.	7.2	158
8	Signal Amplification in Living Cells: A Review of microRNA Detection and Imaging. Analytical Chemistry, 2020, 92, 292-308.	3.2	148
9	CRISPR technology incorporating amplification strategies: molecular assays for nucleic acids, proteins, and small molecules. Chemical Science, 2021, 12, 4683-4698.	3.7	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. Talanta, 2012, 88, 507-515.	2.9	139
11	Comparative cytotoxicity of fourteen trivalent and pentavalent arsenic species determined using real-time cell sensing. Journal of Environmental Sciences, 2016, 49, 113-124.	3.2	131
12	A Target-Triggered DNAzyme Motor Enabling Homogeneous, Amplified Detection of Proteins. Analytical Chemistry, 2017, 89, 12888-12895.	3.2	114
13	Arsenic speciation analysis: A review with an emphasis on chromatographic separations. TrAC - Trends in Analytical Chemistry, 2020, 123, 115770.	5.8	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. Journal of Analytical Atomic Spectrometry, 2010, 25, 1931.	1.6	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. Mikrochimica Acta, 2011, 175, 121-128.	2.5	78
16	Light-induced pH change and its application to solid phase extraction of trace heavy metals by high-magnetization Fe3O4@SiO2@TiO2 nanoparticles followed by inductively coupled plasma mass spectrometry detection. Talanta, 2012, 94, 278-283.	2.9	68
17	Integrating Reverse Transcription Recombinase Polymerase Amplification with CRISPR Technology for the One-Tube Assay of RNA. Analytical Chemistry, 2021, 93, 12808-12816.	3.2	63
18	Arsenic Metabolites, Including N-Acetyl-4-hydroxy-m-arsanilic Acid, in Chicken Litter from a Roxarsone-Feeding Study Involving 1600 Chickens. Environmental Science & Technology, 2016, 50, 6737-6743.	4.6	60

#	Article	IF	Citations
19	Methylated and thiolated arsenic species for environmental and health research â€" A review on synthesis and characterization. Journal of Environmental Sciences, 2016, 49, 7-27.	3.2	51
20	Arsenic Species in Chicken Breast: Temporal Variations of Metabolites, Elimination Kinetics, and Residual Concentrations. Environmental Health Perspectives, 2016, 124, 1174-1181.	2.8	50
21	Speciation of arsenic â€“ A review of phenylarsenicals and related arsenic metabolites. TrAC - Trends in Analytical Chemistry, 2018, 104, 171-182.	5.8	50
22	Liquid chromatography combined with atomic and molecular mass spectrometry for speciation of arsenic in chicken liver. Journal of Chromatography A, 2014, 1370, 40-49.	1.8	48
23	Immunoaffinity monolithic capillary microextraction coupled with ICP-MS for immunoassay with quantum dot labels. Journal of Analytical Atomic Spectrometry, 2010, 25, 1674.	1.6	46
24	Nucleic acid aptamers improving fluorescence anisotropy and fluorescence polarization assays for small molecules. TrAC - Trends in Analytical Chemistry, 2019, 110, 401-409.	5.8	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. Analyst, The, 2011, 136, 3934.	1.7	42
26	Enzyme-assisted extraction and liquid chromatography mass spectrometry for the determination of arsenic species in chicken meat. Analytica Chimica Acta, 2015, 888, 1-9.	2.6	41
27	pâ€Azidophenylarsenoxide: An Arsenical â€œBaitâ€•for the In Situ Capture and Identification of Cellular Arsenicâ€Binding Proteins. Angewandte Chemie - International Edition, 2016, 55, 14051-14056.	7.2	40
28	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. Angewandte Chemie - International Edition, 2017, 56, 6773-6777.	7.2	39
29	An improved SELEX technique for selection of DNA aptamers binding to M-type 11 of Streptococcus pyogenes. Methods, 2016, 97, 51-57.	1.9	35
30	Magnetic quantitative immunoanalysis of carcinoembryonic antigen by ICP-MS with mercury labels. Journal of Analytical Atomic Spectrometry, 2011, 26, 1217.	1.6	33
31	Binding-Induced DNA Dissociation Assay for Small Molecules: Sensing Aflatoxin B1. ACS Sensors, 2018, 3, 2590-2596.	4.0	29
32	Aminopropyltriethoxysilaneâ€ssilica hybrid monolithic capillary microextraction combined with inductively coupled plasma mass spectrometry for the determination of trace elements in biological samples. Journal of Separation Science, 2011, 34, 2247-2254.	1.3	28
33	Biotransformation of arsenic-containing roxarsone by an aerobic soil bacterium Enterobacter sp. CZ-1. Environmental Pollution, 2019, 247, 482-487.	3.7	28
34	Aptamer binding assays and molecular interaction studies using fluorescence anisotropy - A review. Analytica Chimica Acta, 2020, 1125, 267-278.	2.6	26
35	A Genome-Editing Nanomachine Constructed with a Clustered Regularly Interspaced Short Palindromic Repeats System and Activated by Near-Infrared Illumination. ACS Nano, 2020, 14, 2817-2826.	7.3	23
36	Bindingâ€Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. Angewandte Chemie - International Edition, 2021, 60, 11104-11109.	7.2	23

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37	Magnetic quantitative analysis for multiplex glycoprotein with polymer-based elemental tags. Journal of Analytical Atomic Spectrometry, 2014, 29, 1112.	1.6	19
38	The Effects of SELEX Conditions on the Resultant Aptamer Pools in the Selection of Aptamers Binding to Bacterial Cells. Journal of Molecular Evolution, 2015, 81, 194-209.	0.8	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. Journal of Analytical Atomic Spectrometry, 2015, 30, 1386-1394.	1.6	16
40	Quantitative synthesis of proteinâ€“DNA conjugates with 1â€‰:â€‰1 stoichiometry. Chemical Communications, 2018, 54, 7491-7494.	2.2	16
41	Consumption of rice and fish in an electronic waste recycling area contributes significantly to total daily intake of mercury. Journal of Environmental Sciences, 2015, 38, 83-86.	3.2	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. International Journal of Environmental Analytical Chemistry, 2016, 96, 212-224.	1.8	9
43	Methylated Phenylarsenical Metabolites Discovered in Chicken Liver. Angewandte Chemie, 2017, 129, 6877-6881.	1.6	7
44	Simultaneous removal of arsenic and antimony from mining wastewater. Journal of Environmental Sciences, 2020, 93, 117-119.	3.2	7
45	pâ€Azidophenylarsenoxide: An Arsenical â€œBaitâ€•for the In Situ Capture and Identification of Cellular Arsenicâ€Binding Proteins. Angewandte Chemie, 2016, 128, 14257-14262.	1.6	3
46	Titelbild: Methylated Phenylarsenical Metabolites Discovered in Chicken Liver (Angew. Chem. 24/2017). Angewandte Chemie, 2017, 129, 6779-6779.	1.6	1
47	Bindingâ€Mediated Formation of Ribonucleoprotein Corona for Efficient Delivery and Control of CRISPR/Cas9. Angewandte Chemie, 2021, 133, 11204-11209.	1.6	0