Rebecca J Whelan

List of Publications by Year
in descending order

38 papers	1,666 citations	516710 16 h-index	434195 31 g-index
38 all docs	38 docs citations	38 times ranked	2678 citing authors

#	Article	IF	Citations
1	Preparative capillary electrophoresis (CE) fractionation of protein digests improves protein and peptide identification in bottom-up proteomics. Analytical Methods, 2022, 14, 1103-1110.	2.7	9
2	N-Heterocyclic Carbene Ligand Stability on Gold Nanoparticles in Biological Media. ACS Omega, 2022, 7, 1444-1451.	3.5	13
3	Activity: Teaching Coding in R through Discipline-Focused Problem-Solving in an Analytical Chemistry Course. Journal of Chemical Education, 2022, 99, 3068-3073.	2.3	1
4	Affinity-free enrichment and mass spectrometry analysis of the ovarian cancer biomarker CA125 (MUC16) from patient-derived ascites. Analyst, The, 2021, 146, 85-94.	3.5	12
5	Introduction to bioanalytical sensors for real-world applications. Analytical Methods, 2021, 13, 1776-1777.	2.7	0
6	Characterization of DNA aptamerâ€“protein binding using fluorescence anisotropy assays in low-volume, high-efficiency plates. Analytical Methods, 2021, 13, 1302-1307.	2.7	3
7	A survey of trace metal burdens in increment cores from eastern cottonwood (Populus deltoides) across a childhood cancer cluster, Sandusky County, OH, USA. Chemosphere, 2020, 238, 124528.	8.2	2
8	Developing a mass spectrometryâ€“based assay for the ovarian cancer biomarker CA125 (MUC16) using suspension trapping (STrap). Analytical and Bioanalytical Chemistry, 2020, 412, 6361-6370.	3.7	9
9	Attraction of Culex pipiens to House Sparrows Is Influenced by Host Age but Not Uropygial Gland Secretions. Insects, 2018, 9, 127.	2.2	6
10	Attraction ofCulex pipiensto uropygial gland secretions does not explain feeding preference for American robins. Journal of Vector Ecology, 2018, 43, 110-116.	1.0	7
11	Antibody-Based Therapy for Ovarian Cancer. , 2018, , .		0
12	Experimental and mathematical evidence that thrombin-binding aptamers form a 1 aptamer:2 protein complex. Aptamers, 2018, 2, 64-73.	0.5	3
13	Selection of DNA Aptamers for Ovarian Cancer Biomarker CA125 Using One-Pot SELEX and High-Throughput Sequencing. Journal of Nucleic Acids, 2017, 2017, 1-9.	1.2	29
14	Effects of Cationic Proteins on Gold Nanoparticle/Aptamer Assays. ACS Omega, 2017, 2, 8222-8226.	3.5	6
15	Abstract AP15: MODULATION OF OXIDATIVE STRESS AND SUBSEQUENT INDUCTION OF APOPTOSIS AND ENDOPLASMIC RETICULUM STRESS ALLOWS CITRAL TO DECREASE CANCER CELL PROLIFERATION. , 2017, , .		0
16	Reading, Writing, and Peer Review: Engaging With Chemical Literature in a 200-Level Analytical Chemistry Course. ACS Symposium Series, 2016, , 157-168.	0.5	6
17	Modulation of oxidative stress and subsequent induction of apoptosis and endoplasmic reticulum stress allows citral to decrease cancer cell proliferation. Scientific Reports, 2016, 6, 27530.	3.3	50
18	Abstract B42: Identification of nucleic acid aptamers for ovarian cancer biomarkers using multiple selection modes and high-throughput sequencing.. , 2016, , .		0

#	Article	IF	Citations
19	Selection of DNA aptamers for ovarian cancer biomarker HE4 using CE-SELEX and high-throughput sequencing. Analytical and Bioanalytical Chemistry, 2015, 407, 6965-6973.	3.7	61
20	Abstract POSTER-THER-1429: Selection of DNA aptamers for an ovarian cancer cell line using high-throughput sequencing. , 2015, , .		0
21	MUC16 (CA125): tumor biomarker to cancer therapy, a work in progress. Molecular Cancer, 2014, 13, 129.	19.2	372
22	Abstract 2246: Steam distilled ginger extract inhibits endometrial cancer cell proliferation by activating P53 and causing apoptosis.. , 2013, , .		0
23	Abstract 4337: Selection of DNA aptamers for an ovarian cancer cell line using high-throughput sequencing.. Cancer Research, 2013, 73, 4337-4337.	0.9	1
24	Terpenoids from Zingiber officinale (Ginger) Induce Apoptosis in Endometrial Cancer Cells through the Activation of p53. PLoS ONE, 2012, 7, e53178.	2.5	112
25	Volatile and Semivolatile Compounds in Gray Catbird Uropygial Secretions Vary with Age and Between Breeding and Wintering Grounds. Journal of Chemical Ecology, 2011, 37, 329-339.	1.8	35
26	Synthesis and structural characterization of the peptide epitope of the ovarian cancer biomarker CA125 (MUC16). Tumor Biology, 2010, 31, 495-502.	1.8	8
27	Short-chain carboxylic acids from gray catbird (Dumetella carolinensis) uropygial secretions vary with testosterone levels and photoperiod. Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology, 2010, 156, 183-188.	1.6	26
28	Multiplexed Detection of Proteinâ^'Peptide Interaction and Inhibition Using Capillary Electrophoresis. Analytical Chemistry, 2007, 79, 1690-1695.	6.5	40
29	Capillary Electrophoresis and Fluorescence Anisotropy for Quantitative Analysis of Peptideâ^'Protein Interactions Using JAK2 and SH2-Bî² as a Model System. Analytical Chemistry, 2005, 77, 2482-2489.	6.5	34
30	Poly(dimethylsiloxane) microfluidic flow cells for surface plasmon resonance spectroscopy. Sensors and Actuators B: Chemical, 2004, 98, 208-214.	7.8	32
31	Application of Ion Chromatography to the Investigation of Real-World Samples. Journal of Chemical Education, 2004, 81, 1299.	2.3	6
32	Affinity Assays Using Fluorescence Anisotropy with Capillary Electrophoresis Separation. Analytical Chemistry, 2004, 76, 7380-7386.	6.5	17
33	Single-cell immunosensors for protein detection. Biosensors and Bioelectronics, 2003, 19, 331-336.	10.1	8
34	Surface Plasmon Resonance Detection for Capillary Electrophoresis Separations. Analytical Chemistry, 2003, 75, 1542-1547.	6.5	52
35	Microfluidic Device for Single-Cell Analysis. Analytical Chemistry, 2003, 75, 3581-3586.	6.5	545
36	Teaching Effective Communication in a Writing-Intensive Analytical Chemistry Course. Journal of Chemical Education, 2003, 80, 904.	2.3	47

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37	Analysis of Biomolecular Interactions Using a Miniaturized Surface Plasmon Resonance Sensor. Analytical Chemistry, 2002, 74, 4570-4576.	6.5	54
38	Functional Immobilization of a Ligand-Activated G-Protein-Coupled Receptor. ChemBioChem, 2002, 3, 993-998.	2.6	60