

Rebecca J Whelan

List of Publications by Year in descending order

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Version: 2024-02-01

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	Microfluidic Device for Single-Cell Analysis. <i>Analytical Chemistry</i> , 2003, 75, 3581-3586.	6.5	545
2	MUC16 (CA125): tumor biomarker to cancer therapy, a work in progress. <i>Molecular Cancer</i> , 2014, 13, 129.	19.2	372
3	Terpenoids from <i>Zingiber officinale</i> (Ginger) Induce Apoptosis in Endometrial Cancer Cells through the Activation of p53. <i>PLoS ONE</i> , 2012, 7, e53178.	2.5	112
4	Selection of DNA aptamers for ovarian cancer biomarker HE4 using CE-SELEX and high-throughput sequencing. <i>Analytical and Bioanalytical Chemistry</i> , 2015, 407, 6965-6973.	3.7	61
5	Functional Immobilization of a Ligand-Activated G-Protein-Coupled Receptor. <i>ChemBioChem</i> , 2002, 3, 993-998.	2.6	60
6	Analysis of Biomolecular Interactions Using a Miniaturized Surface Plasmon Resonance Sensor. <i>Analytical Chemistry</i> , 2002, 74, 4570-4576.	6.5	54
7	Surface Plasmon Resonance Detection for Capillary Electrophoresis Separations. <i>Analytical Chemistry</i> , 2003, 75, 1542-1547.	6.5	52
8	Modulation of oxidative stress and subsequent induction of apoptosis and endoplasmic reticulum stress allows citral to decrease cancer cell proliferation. <i>Scientific Reports</i> , 2016, 6, 27530.	3.3	50
9	Teaching Effective Communication in a Writing-Intensive Analytical Chemistry Course. <i>Journal of Chemical Education</i> , 2003, 80, 904.	2.3	47
10	Multiplexed Detection of Protein~Peptide Interaction and Inhibition Using Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 1690-1695.	6.5	40
11	Volatile and Semivolatile Compounds in Gray Catbird Uropygial Secretions Vary with Age and Between Breeding and Wintering Grounds. <i>Journal of Chemical Ecology</i> , 2011, 37, 329-339.	1.8	35
12	Capillary Electrophoresis and Fluorescence Anisotropy for Quantitative Analysis of Peptide~Protein Interactions Using JAK2 and SH2-BI ² as a Model System. <i>Analytical Chemistry</i> , 2005, 77, 2482-2489.	6.5	34
13	Poly(dimethylsiloxane) microfluidic flow cells for surface plasmon resonance spectroscopy. <i>Sensors and Actuators B: Chemical</i> , 2004, 98, 208-214.	7.8	32
14	Selection of DNA Aptamers for Ovarian Cancer Biomarker CA125 Using One-Pot SELEX and High-Throughput Sequencing. <i>Journal of Nucleic Acids</i> , 2017, 2017, 1-9.	1.2	29
15	Short-chain carboxylic acids from gray catbird (<i>Dumetella carolinensis</i>) uropygial secretions vary with testosterone levels and photoperiod. <i>Comparative Biochemistry and Physiology - B Biochemistry and Molecular Biology</i> , 2010, 156, 183-188.	1.6	26
16	Affinity Assays Using Fluorescence Anisotropy with Capillary Electrophoresis Separation. <i>Analytical Chemistry</i> , 2004, 76, 7380-7386.	6.5	17
17	<i>N</i>-Heterocyclic Carbene Ligand Stability on Gold Nanoparticles in Biological Media. <i>ACS Omega</i> , 2022, 7, 1444-1451.	3.5	13
18	Affinity-free enrichment and mass spectrometry analysis of the ovarian cancer biomarker CA125 (MUC16) from patient-derived ascites. <i>Analyst</i> , The, 2021, 146, 85-94.	3.5	12

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19	Developing a mass spectrometry-based assay for the ovarian cancer biomarker CA125 (MUC16) using suspension trapping (STrap). <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6361-6370.	3.7	9
20	Preparative capillary electrophoresis (CE) fractionation of protein digests improves protein and peptide identification in bottom-up proteomics. <i>Analytical Methods</i> , 2022, 14, 1103-1110.	2.7	9
21	Single-cell immunosensors for protein detection. <i>Biosensors and Bioelectronics</i> , 2003, 19, 331-336.	10.1	8
22	Synthesis and structural characterization of the peptide epitope of the ovarian cancer biomarker CA125 (MUC16). <i>Tumor Biology</i> , 2010, 31, 495-502.	1.8	8
23	Attraction of <i>Culex pipiens</i> to uropygial gland secretions does not explain feeding preference for American robins. <i>Journal of Vector Ecology</i> , 2018, 43, 110-116.	1.0	7
24	Application of Ion Chromatography to the Investigation of Real-World Samples. <i>Journal of Chemical Education</i> , 2004, 81, 1299.	2.3	6
25	Reading, Writing, and Peer Review: Engaging With Chemical Literature in a 200-Level Analytical Chemistry Course. <i>ACS Symposium Series</i> , 2016, , 157-168.	0.5	6
26	Attraction of <i>Culex pipiens</i> to House Sparrows Is Influenced by Host Age but Not Uropygial Gland Secretions. <i>Insects</i> , 2018, 9, 127.	2.2	6
27	Effects of Cationic Proteins on Gold Nanoparticle/Aptamer Assays. <i>ACS Omega</i> , 2017, 2, 8222-8226.	3.5	6
28	Characterization of DNA aptamer-protein binding using fluorescence anisotropy assays in low-volume, high-efficiency plates. <i>Analytical Methods</i> , 2021, 13, 1302-1307.	2.7	3
29	Experimental and mathematical evidence that thrombin-binding aptamers form a 1 aptamer:2 protein complex. <i>Aptamers</i> , 2018, 2, 64-73.	0.5	3
30	A survey of trace metal burdens in increment cores from eastern cottonwood (<i>Populus deltoides</i>) across a childhood cancer cluster, Sandusky County, OH, USA. <i>Chemosphere</i> , 2020, 238, 124528.	8.2	2
31	Abstract 4337: Selection of DNA aptamers for an ovarian cancer cell line using high-throughput sequencing. <i>Cancer Research</i> , 2013, 73, 4337-4337.	0.9	1
32	Activity: Teaching Coding in R through Discipline-Focused Problem-Solving in an Analytical Chemistry Course. <i>Journal of Chemical Education</i> , 2022, 99, 3068-3073.	2.3	1
33	Introduction to bioanalytical sensors for real-world applications. <i>Analytical Methods</i> , 2021, 13, 1776-1777.	2.7	0
34	Abstract 2246: Steam distilled ginger extract inhibits endometrial cancer cell proliferation by activating P53 and causing apoptosis. , 2013, , .		0
35	Abstract POSTER-THER-1429: Selection of DNA aptamers for an ovarian cancer cell line using high-throughput sequencing. , 2015, , .		0
36	Abstract B42: Identification of nucleic acid aptamers for ovarian cancer biomarkers using multiple selection modes and high-throughput sequencing. , 2016, , .		0

#	ARTICLE	IF	CITATIONS
37	Abstract AP15: MODULATION OF OXIDATIVE STRESS AND SUBSEQUENT INDUCTION OF APOPTOSIS AND ENDOPLASMIC RETICULUM STRESS ALLOWS CITRAL TO DECREASE CANCER CELL PROLIFERATION. , 2017, , .		0
38	Antibody-Based Therapy for Ovarian Cancer. , 2018, , .		0