

# Edgar A Arriaga

## List of Publications by Year in descending order

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82  
papers

3,197  
citations

218677

26  
h-index

161849

54  
g-index

88  
all docs

88  
docs citations

88  
times ranked

4152  
citing authors

#	ARTICLE	IF	CITATIONS
1	Guidelines for Advancing Diversity, Equity, Inclusion, and Respect in Programs Offering Bachelor's Degrees in Chemistry. <i>Journal of Chemical Education</i> , 2022, 99, 393-401.	2.3	7
2	Introducing the <i>Journal of Chemical Education's</i> Special Issue on Diversity, Equity, Inclusion, and Respect in Chemistry Education Research and Practice. <i>Journal of Chemical Education</i> , 2022, 99, 1-4.	2.3	9
3	Metallointercalators-DNA Tetrahedron Supramolecular Self-Assemblies with Increased Serum Stability. <i>ACS Nano</i> , 2022, 16, 2928-2941.	14.6	18
4	Continuous organelle separation in an insulator-based dielectrophoretic device. <i>Electrophoresis</i> , 2022, 43, 1283-1296.	2.4	4
5	Nonspecific Binding Correction for Single-Cell Mass Cytometric Analysis of Autophagy and Myoblast Differentiation. <i>Analytical Chemistry</i> , 2021, 93, 1401-1408.	6.5	5
6	<i>Journal of Chemical Education</i> Call for Papers: Special Issue on Diversity, Equity, Inclusion, and Respect in Chemistry Education Research and Practice. <i>Journal of Chemical Education</i> , 2020, 97, 3915-3918.	2.3	14
7	Matters of Ethics. <i>ACS Symposium Series</i> , 2020, , 127-144.	0.5	2
8	Targeting senescent cells alleviates obesity-induced metabolic dysfunction. <i>Aging Cell</i> , 2019, 18, e12950.	6.7	395
9	Making excellence inclusive. <i>C&amp;EN Global Enterprise</i> , 2019, 97, 31-31.	0.0	3
10	Deterministic Ratchet for Sub-micrometer (Bio)particle Separation. <i>Analytical Chemistry</i> , 2018, 90, 4370-4379.	6.5	25
11	Sizing lipid droplets from adult and geriatric mouse liver tissue via nanoparticle tracking analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 3629-3638.	3.7	4
12	Development of a Click-Chemistry Reagent Compatible with Mass Cytometry. <i>Scientific Reports</i> , 2018, 8, 6657.	3.3	5
13	Fisetin is a senotherapeutic that extends health and lifespan. <i>EBioMedicine</i> , 2018, 36, 18-28.	6.1	554
14	Quantifying Heterogeneity of Individual Organelles in Mixed Populations via Mass Cytometry. <i>Analytical Chemistry</i> , 2018, 90, 13315-13321.	6.5	10
15	High-Throughput Characterization of Region-Specific Mitochondrial Function and Morphology. <i>Scientific Reports</i> , 2017, 7, 6749.	3.3	16
16	Checkpoints for preliminary identification of small molecules found enriched in autophagosomes and activated mast cell secretions analyzed by comparative UPLC/MSe. <i>Analytical Methods</i> , 2017, 9, 46-54.	2.7	1
17	Identification and Characterization of Mitochondrial Subtypes in <i>Caenorhabditis elegans</i> via Analysis of Individual Mitochondria by Flow Cytometry. <i>Analytical Chemistry</i> , 2016, 88, 6309-6316.	6.5	23
18	Metabolic Labeling with an Alkyne-modified Isoprenoid Analog Facilitates Imaging and Quantification of the Prenylome in Cells. <i>ACS Chemical Biology</i> , 2016, 11, 2820-2828.	3.4	36

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19	Capillary Electrophoresis with Laser-Induced Fluorescent Detection of Immunolabeled Individual Autophagy Organelles Isolated from Liver Tissue. <i>Analytical Chemistry</i> , 2016, 88, 11691-11698.	6.5	2
20	Nanohole Array-Directed Trapping of Mammalian Mitochondria Enabling Single Organelle Analysis. <i>Analytical Chemistry</i> , 2015, 87, 11973-11977.	6.5	13
21	Analysis of individual mitochondria via fluorescent immunolabeling with Anti-TOM22 antibodies. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 1683-1691.	3.7	9
22	Monitoring subcellular biotransformation of N-leucyldoxorubicin by micellar electrokinetic capillary chromatography coupled to laser-induced fluorescence detection. <i>Analytical and Bioanalytical Chemistry</i> , 2014, 406, 2389-2397.	3.7	0
23	Simultaneous Measurement of Individual Mitochondrial Membrane Potential and Electrophoretic Mobility by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2014, 86, 4217-4226.	6.5	25
24	Insulator-based dielectrophoresis of mitochondria. <i>Biomicrofluidics</i> , 2014, 8, 021801.	2.4	36
25	Capillary electrophoretic analysis of hydroxyl radicals produced by respiring mitochondria. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 6053-6060.	3.7	7
26	Describing Autophagy via Analysis of Individual Organelles by Capillary Electrophoresis with Laser Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2013, 85, 11391-11400.	6.5	8
27	Bioanalysis of Eukaryotic Organelles. <i>Chemical Reviews</i> , 2013, 113, 2733-2811.	47.7	110
28	Protein Carbonylation and Adipocyte Mitochondrial Function*. <i>Journal of Biological Chemistry</i> , 2012, 287, 32967-32980.	3.4	56
29	Protein carbonylation and metabolic control systems. <i>Trends in Endocrinology and Metabolism</i> , 2012, 23, 399-406.	7.1	113
30	Review on recent advances in the analysis of isolated organelles. <i>Analytica Chimica Acta</i> , 2012, 753, 8-18.	5.4	49
31	Analysis of the bioactivity of magnetically immunisolated peroxisomes. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 402, 41-49.	3.7	13
32	Capillary Isoelectric Focusing of Individual Mitochondria. <i>Analytical Chemistry</i> , 2011, 83, 612-618.	6.5	24
33	Capillary Electrophoretic Analysis Reveals Subcellular Binding between Individual Mitochondria and Cytoskeleton. <i>Analytical Chemistry</i> , 2011, 83, 1822-1829.	6.5	14
34	Individual Organelle pH Determinations of Magnetically Enriched Endocytic Organelles via Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2011, 83, 7331-7339.	6.5	8
35	Semi-automated image analysis: detecting carbonylation in subcellular regions of skeletal muscle. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 400, 213-222.	3.7	3
36	Detection of heteroplasmy in individual mitochondrial particles. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3397-3407.	3.7	21

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37	Analytical tools for cell research. <i>Analytical and Bioanalytical Chemistry</i> , 2010, 397, 3161-3162.	3.7	0
38	Downregulation of Adipose Glutathione S-Transferase A4 Leads to Increased Protein Carbonylation, Oxidative Stress, and Mitochondrial Dysfunction. <i>Diabetes</i> , 2010, 59, 1132-1142.	0.6	167
39	Asymmetric superoxide release inside and outside the mitochondria in skeletal muscle under conditions of aging and disuse. <i>Journal of Applied Physiology</i> , 2010, 109, 1133-1139.	2.5	13
40	Tandem Laser-Induced Fluorescence and Mass Spectrometry Detection for High-Performance Liquid Chromatography Analysis of the in Vitro Metabolism of Doxorubicin. <i>Analytical Chemistry</i> , 2010, 82, 8113-8120.	6.5	14
41	Analysis of Superoxide Production in Single Skeletal Muscle Fibers. <i>Analytical Chemistry</i> , 2010, 82, 4570-4576.	6.5	18
42	Chemical Cytometry Quantitates Superoxide Levels in the Mitochondrial Matrix of Single Myoblasts. <i>Analytical Chemistry</i> , 2010, 82, 6745-6750.	6.5	8
43	Qualitative determination of superoxide release at both sides of the mitochondrial inner membrane by capillary electrophoretic analysis of the oxidation products of triphenylphosphonium hydroethidine. <i>Free Radical Biology and Medicine</i> , 2009, 46, 905-913.	2.9	37
44	Determining biological noise via single cell analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2009, 393, 73-80.	3.7	16
45	Evaluation of peak overlap in migration-time distributions determined by organelle capillary electrophoresis: Type-II error analogy based on statistical-overlap theory. <i>Journal of Chromatography A</i> , 2009, 1216, 6335-6342.	3.7	12
46	Fast Determination of Mitochondria Electrophoretic Mobility Using Micro Free-Flow Electrophoresis. <i>Analytical Chemistry</i> , 2009, 81, 9267-9273.	6.5	55
47	Estimating relative carbonyl levels in muscle microstructures by fluorescence imaging. <i>Analytical and Bioanalytical Chemistry</i> , 2008, 391, 2591-2598.	3.7	5
48	Quantification of carbonylated proteins in rat skeletal muscle mitochondria using capillary sieving electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2008, 29, 475-482.	2.4	20
49	Recent advances in the analysis of biological particles by capillary electrophoresis. <i>Electrophoresis</i> , 2008, 29, 2578-2586.	2.4	58
50	Monitoring incorporation, transformation and subcellular distribution of N-l-leucyl-doxorubicin in uterine sarcoma cells using capillary electrophoretic techniques. <i>Cancer Letters</i> , 2008, 262, 123-132.	7.2	13
51	Quantitative Proteomic Profiling of Muscle Type-Dependent and Age-Dependent Protein Carbonylation in Rat Skeletal Muscle Mitochondria. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2008, 63, 1137-1152.	3.6	73
52	Simultaneously Monitoring the Superoxide in the Mitochondrial Matrix and Extramitochondrial Space by Micellar Electrokinetic Chromatography with Laser-Induced Fluorescence. <i>Analytical Chemistry</i> , 2007, 79, 4588-4594.	6.5	29
53	Individual Electrophoretic Mobilities of Liposomes and Acidic Organelles Displaying pH Gradients Across Their Membranes. <i>Langmuir</i> , 2007, 23, 5584-5590.	3.5	17
54	Quantitation of DNA Copy Number in Individual Mitochondrial Particles by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 7691-7699.	6.5	24

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55	Simultaneous Laser-Induced Fluorescence and Scattering Detection of Individual Particles Separated by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2007, 79, 5474-5478.	6.5	24
56	CE analysis of the acidic organelles of a single cell. <i>Electrophoresis</i> , 2007, 28, 2406-2415.	2.4	24
57	Evaluation of individual particle capillary electrophoresis experiments via quantile analysis. <i>Journal of Chromatography A</i> , 2007, 1157, 446-453.	3.7	14
58	Absolute quantitation of a heteroplasmic mitochondrial DNA deletion using a multiplex three-primer real-time PCR assay. <i>Analytical Biochemistry</i> , 2007, 362, 193-200.	2.4	24
59	Identification of carbonylated proteins from enriched rat skeletal muscle mitochondria using affinity chromatography-stable isotope labeling and tandem mass spectrometry. <i>Proteomics</i> , 2007, 7, 1150-1163.	2.2	112
60	Fast electrophoretic analysis of individual mitochondria using microchip capillary electrophoresis with laser induced fluorescence detection. <i>Lab on A Chip</i> , 2006, 6, 1007.	6.0	24
61	Capillary Electrophoresis Monitors Enhancement in Subcellular Reactive Oxygen Species Production upon Treatment with Doxorubicin. <i>Chemical Research in Toxicology</i> , 2006, 19, 1151-1159.	3.3	24
62	Individual Acidic Organelle pH Measurements by Capillary Electrophoresis. <i>Analytical Chemistry</i> , 2006, 78, 820-826.	6.5	35
63	Analysis of subcellular sized particles. <i>Journal of Chromatography A</i> , 2006, 1137, 249-255.	3.7	17
64	On-column labeling for capillary electrophoretic analysis of individual mitochondria directly sampled from tissue cross sections. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 384, 169-174.	3.7	18
65	Analysis of mitochondria isolated from single cells. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 387, 107-118.	3.7	52
66	Single cell analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 387, 1-2.	3.7	23
67	Superoxide released into the mitochondrial matrix. <i>Free Radical Biology and Medicine</i> , 2006, 41, 950-959.	2.9	26
68	Separation of doxorubicin and doxorubicinol by cyclodextrin-modified micellar electrokinetic capillary chromatography. <i>Electrophoresis</i> , 2006, 27, 3263-3270.	2.4	23
69	CE-LIF analysis of mitochondria using uncoated and dynamically coated capillaries. <i>Electrophoresis</i> , 2006, 27, 4523-4531.	2.4	18
70	Capillary Electrophoresis Reveals Changes in Individual Mitochondrial Particles Associated With Skeletal Muscle Fiber Type and Age. <i>Journals of Gerontology - Series A Biological Sciences and Medical Sciences</i> , 2006, 61, 1211-1218.	3.6	9
71	Automated analysis of individual particles using a commercial capillary electrophoresis system. <i>Journal of Chromatography A</i> , 2005, 1064, 107-114.	3.7	27
72	Within the cell: analytical techniques for subcellular analysis. <i>Analytical and Bioanalytical Chemistry</i> , 2005, 382, 906-917.	3.7	29

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73	Selective Determination of the Doxorubicin Content of Individual Acidic Organelles in Impure Subcellular Fractions. <i>Analytical Chemistry</i> , 2005, 77, 2281-2287.	6.5	37
74	Subcellular metabolite profiles of the parent CCRF-CEM and the derived CEM/C2 cell lines after treatment with doxorubicin. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2004, 808, 295-302.	2.3	19
75	Direct Sampling from Muscle Cross Sections for Electrophoretic Analysis of Individual Mitochondria. <i>Analytical Chemistry</i> , 2004, 76, 315-321.	6.5	28
76	Doxorubicin Accumulation in Individually Electrophoresed Organelles. <i>Journal of the American Chemical Society</i> , 2004, 126, 9168-9169.	13.7	24
77	Determination of Electrophoretic Mobility Distributions through the Analysis of Individual Mitochondrial Events by Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2002, 74, 171-176.	6.5	75
78	Determination of the cardiolipin content of individual mitochondria by capillary electrophoresis with laser-induced fluorescence detection. <i>Electrophoresis</i> , 2002, 23, 1571.	2.4	56
79	Detection of doxorubicin and metabolites in cell extracts and in single cells by capillary electrophoresis with laser-induced fluorescence detection. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2002, 769, 97-106.	2.3	73
80	Determination of Properties of Individual Liposomes by Capillary Electrophoresis with Postcolumn Laser-Induced Fluorescence Detection. <i>Analytical Chemistry</i> , 2001, 73, 1855-1861.	6.5	97
81	Individual Mitochondrion Characterization: A Comparison of Classical Assays to Capillary Electrophoresis with Laser-Induced Fluorescence Detection. <i>Analytical Biochemistry</i> , 2001, 294, 141-147.	2.4	42
82	Single Cell Heterogeneity. , 0, , 223-234.		1