Barbara Roda

List of Publications by Year
in descending order

58 papers	1,781 citations	279798 23 h-index	276875 41 g-index
58 all docs	58 docs citations	58 times ranked	2113 citing authors

#	Article	IF	Citations
1	Progress in chemical luminescence-based biosensors: A critical review. Biosensors and Bioelectronics, 2016, 76, 164-179.	10.1	180
2	Field-flow fractionation and biotechnology. Trends in Biotechnology, 2005, 23, 475-483.	9.3	163
3	Field-flow fractionation in bioanalysis: A review of recent trends. Analytica Chimica Acta, 2009, 635, 132-143.	5.4	160
4	Recent developments in rapid multiplexed bioanalytical methods for foodborne pathogenic bacteria detection. Mikrochimica Acta, 2012, 178, 7-28.	5.0	98
5	Role of Carbonyl Modifications on Aging-Associated Protein Aggregation. Scientific Reports, 2016, 6, 19311.	3.3	82
6	Flow field-flow fractionation for the analysis of nanoparticles used in drug delivery. Journal of Pharmaceutical and Biomedical Analysis, 2014, 87, 53-61.	2.8	79
7	On-Line Hollow-Fiber Flow Field-Flow Fractionation-Electrospray Ionization/Time-of-Flight Mass Spectrometry of Intact Proteins. Analytical Chemistry, 2005, 77, 47-56.	6.5	72
8	Hyperlayer hollow-fiber flow field-flow fractionation of cells. Journal of Chromatography A, 2003, 985, 519-529.	3.7	60
9	Bacteria Sorting by Field-Flow Fractionation. Application to Whole-CellEscherichia coliVaccine Strains. Analytical Chemistry, 2002, 74, 4895-4904.	6.5	59
10	Hollow-Fiber Flow Field-Flow Fractionation for Whole Bacteria Analysis by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry. Analytical Chemistry, 2004, 76, 2103-2111.	6.5	58
11	Analytical strategies for improving the robustness and reproducibility of bioluminescent microbial bioreporters. Analytical and Bioanalytical Chemistry, 2011, 401, 201-211.	3.7	46
12	A Novel Stem Cell Tag-Less Sorting Method. Stem Cell Reviews and Reports, 2009, 5, 420-427.	5.6	40
13	High performance, disposable hollow fiber flow field-flow fractionation for bacteria and cells. First application to deactivatedVibrio cholerae. Journal of Separation Science, 2002, 25, 490-498.	2.5	35
14	Hollow-fiber flow field-flow fractionation and multi-angle light scattering investigation of the size, shape and metal-release of silver nanoparticles in aqueous medium for nano-risk assessment. Journal of Pharmaceutical and Biomedical Analysis, 2015, 106, 92-99.	2.8	34
15	A new method for immunoassays using field-flow fractionation with on-line, continuous chemiluminescence detection. Talanta, 2003, 60, 303-312.	5.5	32
16	A tagâ€less method of sorting stem cells from clinical specimens and separating mesenchymal from epithelial progenitor cells. Cytometry Part B - Clinical Cytometry, 2009, 76B, 285-290.	1.5	32
17	Microfluidic Tools for Enhanced Characterization of Therapeutic Stem Cells and Prediction of Their Potential Antimicrobial Secretome. Antibiotics, 2021, 10, 750.	3.7	32
18	Gravitational field-flow fractionation of human hemopoietic stem cells. Journal of Chromatography A, 2009, 1216, 9081-9087.	3.7	29

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19	Hollow-fiber flow field-flow fractionation of whole blood serum. Journal of Chromatography A, 2008, 1183, 135-142.	3.7	27
20	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-236.	3.7	26
21	Human lymphocyte sorting by gravitational field-flow fractionation. Analytical and Bioanalytical Chemistry, 2008, 392, 137-145.	3.7	24
22	Hollow-fiber flow field-flow fractionation with multi-angle laser scattering detection for aggregation studies of therapeutic proteins. Analytical and Bioanalytical Chemistry, 2014, 406, 1619-1627.	3.7	24
23	Hollow-fiber flow field-flow fractionation and multi-angle light scattering as a new analytical solution for quality control in pharmaceutical nanotechnology. Microchemical Journal, 2018, 136, 149-156.	4.5	24
24	An ultracentrifugation â€“ hollow-fiber flow field-flow fractionation orthogonal approach for the purification and mapping of extracellular vesicle subtypes. Journal of Chromatography A, 2021, 1638, 461861.	3.7	24
25	Flow field-flow fractionation with chemiluminescence detection for flow-assisted, multianalyte assays in heterogeneous phase. Journal of Separation Science, 2003, 26, 1417-1421.	2.5	21
26	Flow field-flow fractionation and multi-angle light scattering as a powerful tool for the characterization and stability evaluation of drug-loaded metalâ€“organic framework nanoparticles. Analytical and Bioanalytical Chemistry, 2018, 410, 5245-5253.	3.7	21
27	Biocompatible channels for field-flow fractionation of biological samples: correlation between surface composition and operating performance. Analytical and Bioanalytical Chemistry, 2005, 381, 639-646.	3.7	20
28	Hollow fiber flow field-flow fractionation and size-exclusion chromatography with multi-angle light scattering detection: A complementary approach in biopharmaceutical industry. Journal of Chromatography A, 2014, 1372, 196-203.	3.7	20
29	Widening the Therapeutic Perspectives of Clofazimine by Its Loading in Sulfobutylether Î²-Cyclodextrin Nanocarriers: Nanomolar IC₅₀ Values against MDR S. epidermidis. Molecular Pharmaceutics, 2018, 15, 3823-3836.	4.6	19
30	Characterization of red wine native colloids by asymmetrical flow field-flow fractionation with online multidetection. Food Hydrocolloids, 2021, 110, 106204.	10.7	19
31	A new approach for the separation, characterization and testing of potential prionoid protein aggregates through hollow-fiber flow field-flow fractionation and multi-angle light scattering. Analytica Chimica Acta, 2019, 1087, 121-130.	5.4	18
32	An Innovative, Flow-Assisted, Noncompetitive Chemiluminescent Immunoassay for the Detection of Pathogenic Bacteria,. Clinical Chemistry, 2006, 52, 2151-2155.	3.2	16
33	Tracking Heme-Protein Interactions in Healthy and Pathological Human Serum in Native Conditions by Miniaturized FFF-Multidetection. Applied Sciences (Switzerland), 2022, 12, 6762.	2.5	15
34	Unravelling Heterogeneity of Amplified Human Amniotic Fluid Stem Cells Sub-Populations. Cells, 2021, 10, 158.	4.1	14
35	A tag-less method for direct isolation of human umbilical vein endothelial cells by gravitational field-flow fractionation. Analytical and Bioanalytical Chemistry, 2013, 405, 977-984.	3.7	13
36	Hollow-Fiber Flow Field-Flow Fractionation: A Gentle Separation Method for Mass Spectrometry of Native Proteins. Annali Di Chimica, 2006, 96, 253-257.	0.6	12

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37	Characterization of the Tissue and Stromal Cell Components of Micro-Superficial Enhanced Fluid Fat Injection (Micro-SEFFI) for Facial Aging Treatment. Aesthetic Surgery Journal, 2020, 40, 679-690.	1.6	12
38	FFF-based high-throughput sequence shortlisting to support the development of aptamer-based analytical strategies. Analytical and Bioanalytical Chemistry, 2022, 414, 5519-5527.	3.7	12
39	Synthesis Monitoring, Characterization and Cleanup of Ag-Polydopamine Nanoparticles Used as Antibacterial Agents with Field-Flow Fractionation. Antibiotics, 2022, 11, 358.	3.7	11
40	Gravitational field-flow fractionation integrated with chemiluminescence detection for a self-standing point-of-care compact device in bioanalysis. Analyst, The, 2013, 138, 211-219.	3.5	10
41	Perspectives on protein biopolymers: miniaturized flow field-flow fractionation-assisted characterization of a single-cysteine mutated phaseolin expressed in transplastomic tobacco plants. Journal of Chromatography A, 2021, 1637, 461806.	3.7	10
42	Optimization of a Monobromobimane (MBB) Derivatization and RP-HPLC-FLD Detection Method for Sulfur Species Measurement in Human Serum after Sulfur Inhalation Treatment. Antioxidants, 2022, 11, 939.	5.1	10
43	Tandem hollow-fiber flow field-flow fractionation. Journal of Chromatography A, 2011, 1218, 4132-4137.	3.7	9
44	Hydrodynamic size-based separation and characterization of protein aggregates from total cell lysates. Nature Protocols, 2015, 10, 134-148.	12.0	8
45	Effective Label-Free Sorting of Multipotent Mesenchymal Stem Cells from Clinical Bone Marrow Samples. Bioengineering, 2022, 9, 49.	3.5	8
46	Hybrid gravitational field-flow fractionation using immunofunctionalized walls for integrated bioanalytical devices. Analytical and Bioanalytical Chemistry, 2009, 394, 953-961.	3.7	6
47	A new analytical platform based on field-flow fractionation and olfactory sensor to improve the detection of viable and non-viable bacteria in food. Analytical and Bioanalytical Chemistry, 2016, 408, 7367-7377.	3.7	6
48	Comprehensive characterization of gold nanoparticles and their protein conjugates used as a label by hollow fiber flow field flow fractionation with photodiode array and fluorescence detectors and multiangle light scattering. Journal of Chromatography A, 2021, 1636, 461739.	3.7	6
49	RNA-seq in DMD urinary stem cells recognized muscle-related transcription signatures and addressed the identification of atypical mutations by whole-genome sequencing. Human Genetics and Genomics Advances, 2022, 3, 100054.	1.7	6
50	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-236.	3.7	5
51	A New Predictive Technology for Perinatal Stem Cell Isolation Suited for Cell Therapy Approaches. Micromachines, 2021, 12, 782.	2.9	4
52	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-36.	3.7	4
53	Hollow-Fiber Flow Field-Flow Fractionation: A Pipeline to Scale Down Separation and Enhance Detection of Proteins and Cells. , 2012, , 37-55.		2
54	Compact Miniaturized Bioluminescence Sensor Based on Continuous Air-Segmented Flow for Real-Time Monitoring: Application to Bile Salt Hydrolase (BSH) Activity and ATP Detection in Biological Fluids. Chemosensors, 2021, 9, 122.	3.6	2

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55	Recent Patents and Advances on Tag-Less Microfluidic Stem Cell Sorting Methods: Applications for Perinatal Stem Cell Isolation. Recent Patents on Regenerative Medicine, 2013, 3, 215-226.	0.4	1
56	Quality Control Platform for the Standardization of a Regenerative Medicine Product. Bioengineering, 2022, 9, 142.	3.5	1
57	CHEMILUMINESCENCE, REAL TIME IMAGING OF MICROPARTICLES SEPARATION BY FIELD-FLOW FRACTIONATION: A USEFUL TOOL FOR PROBING RETENTION MECHANISM AT ULTRA-LOW DETECTION LIMITS. , 2002, , .		0
58	CHEMILUMINESCENCE DETECTION FOR FIELD-FLOW FRACTIONATION. , 2002, , .		0