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	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
2	Effective Label-Free Sorting of Multipotent Mesenchymal Stem Cells from Clinical Bone Marrow Samples. Bioengineering, 2022, 9, 49.	3.5	8
3	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
4	Quality Control Platform for the Standardization of a Regenerative Medicine Product. Bioengineering, 2022, 9, 142.	3.5	1
5	Synthesis Monitoring, Characterization and Cleanup of Ag-Polydopamine Nanoparticles Used as Antibacterial Agents with Field-Flow Fractionation. Antibiotics, 2022, 11, 358.	3.7	11
6	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
7	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
8	Characterization of red wine native colloids by asymmetrical flow field-flow fractionation with online multidetection. Food Hydrocolloids, 2021, 110, 106204.	10.7	19
9	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
10	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
11	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
12	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
13	Microfluidic Tools for Enhanced Characterization of Therapeutic Stem Cells and Prediction of Their Potential Antimicrobial Secretome. Antibiotics, 2021, 10, 750.	3.7	32
14	A New Predictive Technology for Perinatal Stem Cell Isolation Suited for Cell Therapy Approaches. Micromachines, 2021, 12, 782.	2.9	4
15	Unravelling Heterogeneity of Amplified Human Amniotic Fluid Stem Cells Sub-Populations. Cells, 2021, 10, 158.	4.1	14
16	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
17	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
18	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

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19	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
20	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
21	Role of Carbonyl Modifications on Aging-Associated Protein Aggregation. Scientific Reports, 2016, 6, 19311.	3.3	82
22	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
23	Progress in chemical luminescence-based biosensors: A critical review. Biosensors and Bioelectronics, 2016, 76, 164-179.	10.1	180
24	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
25	Hydrodynamic size-based separation and characterization of protein aggregates from total cell lysates. Nature Protocols, 2015, 10, 134-148.	12.0	8
26	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
27	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
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	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
30	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
31	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
32	Hollow-Fiber Flow Field-Flow Fractionation: A Pipeline to Scale Down Separation and Enhance Detection of Proteins and Cells. , 2012, , 37-55.		2
33	Recent developments in rapid multiplexed bioanalytical methods for foodborne pathogenic bacteria detection. Mikrochimica Acta, 2012, 178, 7-28.	5.0	98
34	Analytical strategies for improving the robustness and reproducibility of bioluminescent microbial bioreporters. Analytical and Bioanalytical Chemistry, 2011, 401, 201-211.	3.7	46
35	Tandem hollow-fiber flow field-flow fractionation. Journal of Chromatography A, 2011, 1218, 4132-4137.	3.7	9
36	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

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37	A Novel Stem Cell Tag-Less Sorting Method. Stem Cell Reviews and Reports, 2009, 5, 420-427.	5.6	40
38	Hybrid gravitational field-flow fractionation using immunofunctionalized walls for integrated bioanalytical devices. Analytical and Bioanalytical Chemistry, 2009, 394, 953-961.	3.7	6
39	Gravitational field-flow fractionation of human hemopoietic stem cells. Journal of Chromatography A, 2009, 1216, 9081-9087.	3.7	29
40	Field-flow fractionation in bioanalysis: A review of recent trends. Analytica Chimica Acta, 2009, 635, 132-143.	5.4	160
41	Human lymphocyte sorting by gravitational field-flow fractionation. Analytical and Bioanalytical Chemistry, 2008, 392, 137-145.	3.7	24
42	Hollow-fiber flow field-flow fractionation of whole blood serum. Journal of Chromatography A, 2008, 1183, 135-142.	3.7	27
43	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
44	An Innovative, Flow-Assisted, Noncompetitive Chemiluminescent Immunoassay for the Detection of Pathogenic Bacteria,. Clinical Chemistry, 2006, 52, 2151-2155.	3.2	16
45	Field-flow fractionation and biotechnology. Trends in Biotechnology, 2005, 23, 475-483.	9.3	163
46	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
47	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
48	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
49	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-236.	3.7	26
50	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-236.	3.7	5
51	Field-flow fractionation of cells with chemiluminescence detection. Journal of Chromatography A, 2004, 1056, 229-36.	3.7	4
52	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
53	Hyperlayer hollow-fiber flow field-flow fractionation of cells. Journal of Chromatography A, 2003, 985, 519-529.	3.7	60
54	A new method for immunoassays using field-flow fractionation with on-line, continuous chemiluminescence detection. Talanta, 2003, 60, 303-312.	5.5	32

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55	Bacteria Sorting by Field-Flow Fractionation. Application to Whole-CellEscherichia coliVaccine Strains. Analytical Chemistry, 2002, 74, 4895-4904.	6.5	59
56	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
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