Anne Varenne

List of Publications by Year in descending order

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87 papers	2,012 citations	186265 28 h-index	289244 40 g-index
87 all docs	87 docs citations	87 times ranked	2057 citing authors

#	Article	IF	Citations
1	Evaluation of chiral ionic liquids as additives to cyclodextrins for enantiomeric separations by capillary electrophoresis. Journal of Chromatography A, 2007, 1155, 134-141.	3.7	119
2	Determination of nanoparticle diffusion coefficients by Taylor dispersion analysis using a capillary electrophoresis instrument. Journal of Chromatography A, 2008, 1204, 226-232.	3.7	94
3	Microchip integrating magnetic nanoparticles for allergy diagnosis. Lab on A Chip, 2011, 11, 4207.	6.0	64
4	Regioselective desulfation of sulfated l -fucopyranoside by a new sulfoesterase from the marine mollusk Pecten maximus.. FEBS Journal, 2001, 268, 5617-5626.	0.2	58
5	Interaction of fucoidan with the proteins of the complement classical pathway. Biochimica Et Biophysica Acta - Proteins and Proteomics, 2003, 1651, 5-16.	2.3	57
6	A new insight into suction and dilution effects in capillary electrophoresis coupled to mass spectrometry via an electrospray ionization interface. Part Iâ€Šuction effect. Electrophoresis, 2008, 29, 1957-1964.	2.4	56
7	A new application of bioorganometallics: the first simultaneous triple assay by the carbonylmetalloimmunoassay (CMIA) method. Journal of Organometallic Chemistry, 1999, 589, 92-97.	1.8	51
8	Transition metal carbonyl labeling of proteins. A novel approach to a solid-phase two-site immunoassay using Fourier transform infrared spectroscopy. Bioconjugate Chemistry, 1992, 3, 471-476.	3.6	50
9	Frontal Analysis Capillary Electrophoresis Hyphenated to Electrospray Ionization Mass Spectrometry for the Characterization of the Antithrombin/Heparin Pentasaccharide Complex. Analytical Chemistry, 2007, 79, 4987-4993.	6.5	48
10	Chargeâ€based characterization of nanometric cationic bifunctional maghemite/silica core/shell particles by capillary zone electrophoresis. Electrophoresis, 2009, 30, 2572-2582.	2.4	46
11	Field-amplified sample stacking for the detection of chemical warfare agent degradation products in low-conductivity matrices by capillary electrophoresis-mass spectrometry. Journal of Chromatography A, 2008, 1178, 239-247.	3.7	44
12	Production of specific antibodies and development of a non-isotopic immunoassay for carbamazepine by the carbonyl metallo-immunoassay (CMIA) method. Journal of Immunological Methods, 1995, 186, 195-204.	1.4	43
13	Identification and determination of inorganic anions in real extracts from pre- and post-blast residues by capillary electrophoresis. Journal of Chromatography A, 2010, 1217, 6971-6978.	3.7	43
14	Clickable-Zwitterionic Copolymer Capped-Quantum Dots for in Vivo Fluorescence Tumor Imaging. ACS Applied Materials & Interfaces, 2018, 10, 17107-17116.	8.0	43
15	New insight into suction and dilution effects in CE coupled to MS via an ESI interface. II â€“ Dilution effect. Electrophoresis, 2009, 30, 1692-1697.	2.4	42
16	Recent strategies to improve resolution in capillary electrophoresisâ€”A review. Analytica Chimica Acta, 2008, 628, 9-23.	5.4	40
17	Long-term toxicological effects of persistent luminescence nanoparticles after intravenous injection in mice. International Journal of Pharmaceutics, 2017, 532, 686-695.	5.2	38
18	Nonaqueous capillary electrophoretic behavior of 2-aryl propionic acids in the presence of an achiral ionic liquid. Journal of Chromatography A, 2007, 1138, 268-275.	3.7	36

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19	Sizeâ€based characterization of nanometric cationic maghemite particles using capillary zone electrophoresis. Electrophoresis, 2008, 29, 3768-3778.	2.4	36
20	Development and validation of a nonaqueous capillary electrophoretic method for the enantiomeric purity determination of a synthetic intermediate of new 3,4-dihydro-2,2-dimethyl-2H-1-benzopyrans using a single-isomer anionic cyclodextrin derivative and an ionic liquid. Journal of Chromatography A, 2010, 1217, 7949-7955.	3.7	33
21	Determination of trace cationic impurities in butylmethylimidazolium-based ionic liquids: From transient to comprehensive single-capillary counterflow isotachophoresis-zone electrophoresis. Electrophoresis, 2006, 27, 4859-4871.	2.4	32
22	Determination of aqueous inclusion complexation constants and stoichiometry of alkyl(methyl)-methylimidazolium-based ionic liquid cations and neutral cyclodextrins by affinity capillary electrophoresis. Journal of Separation Science, 2007, 30, 751-760.	2.5	32
23	Separation and quantitation of milk whey proteins of close isoelectric points by on-line capillary isoelectric focusingâ€"Electrospray ionization mass spectrometry in glycerolâ€"water media. Journal of Chromatography A, 2010, 1217, 7293-7301.	3.7	32
24	Peak shape modeling by Haarhoff-Van der Linde function for the determination of correct migration times: A new insight into affinity capillary electrophoresis. Electrophoresis, 2005, 26, 3094-3104.	2.4	31
25	Online CIEFâ€ESIâ€MS in glycerolâ€"water media with a view to hydrophobic protein applications. Electrophoresis, 2009, 30, 4040-4048.	2.4	31
26	Evaluation of capillary isoelectric focusing in glycerol-water media with a view to hydrophobic protein applications. Electrophoresis, 2005, 26, 3369-3379.	2.4	30
27	Magnetic core shell nanoparticles trapping in a microdevice generating high magnetic gradient. Lab on A Chip, 2011, 11, 833.	6.0	29
28	Electromigration separation methodologies for the characterization of nanoparticles and the evaluation of their behaviour in biological systems. TrAC - Trends in Analytical Chemistry, 2016, 84, 121-130.	11.4	29
29	Influence of electrolyte nature on the separation selectivity of amphetamines in nonaqueous capillary electrophoresis: Protonation degree versus ion pairing effects. Electrophoresis, 2003, 24, 1577-1586.	2.4	28
30	Interaction study of a lysozymeâ€binding aptamer with monoâ€and divalent cations by ACE. Electrophoresis, 2010, 31, 546-555.	2.4	28
31	Separation and identification of isomeric acidic degradation products of organophosphorus chemical warfare agents by capillary electrophoresis-ion trap mass spectrometry. Journal of Chromatography A, 2006, 1137, 110-118.	3.7	27
32	Analysis of subâ€ppb levels of Fe(II), Co(II), and Ni(II) by electrokinetic supercharging preconcentration, CZE separation, and inâ€capillary derivatization. Electrophoresis, 2007, 28, 3767-3776.	2.4	27
33	Red blood cells decorated with functionalized coreâ€"shell magnetic nanoparticles: elucidation of the adsorption mechanism. Chemical Communications, 2013, 49, 5393.	4.1	26
34	Capillary electrophoresis monitoring of halide impurities in ionic liquids. Analyst, The, 2004, 129, 1257.	3.5	25
35	A chemometric approach for optimizing protein covalent immobilization on magnetic coreâ€"shell nanoparticles in view of an alternative immunoassay. Talanta, 2010, 81, 1703-1710.	5.5	23
36	Determination of binding parameters between lysozyme and its aptamer by frontal analysis continuous microchip electrophoresis (FACMCE). Journal of Chromatography A, 2011, 1218, 4052-4058.	3.7	22

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37	On-line capillary isoelectric focusing hyphenated to native electrospray ionization mass spectrometry for the characterization of interferon-Ï³ and variants. Analyst, The, 2015, 140, 543-550.	3.5	21
38	Recent advances in the development of capillary electrophoresis methodologies for optimizing, controlling, and characterizing the synthesis, functionalization, and physicochemical, properties of nanoparticles. Analytical and Bioanalytical Chemistry, 2016, 408, 2669-2675.	3.7	21
39	Photo-stimulation of persistent luminescence nanoparticles enhances cancer cells death. International Journal of Pharmaceutics, 2017, 532, 696-703.	5.2	21
40	Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide. Journal of Chromatography A, 2003, 987, 467-476.	3.7	20
41	Analysis of nerve agent degradation products in highâ€conductivity matrices by transient ITP preconcentration and CZE separation coupled to ESIâ€MS. Electrophoresis, 2009, 30, 1522-1530.	2.4	20
42	Surface Functionalization by Plasma Treatment and Click Chemistry of a New Family of Fluorinated Polymeric Materials for Microfluidic Chips. Plasma Processes and Polymers, 2014, 11, 518-523.	3.0	19
43	Functionalization and characterization of persistent luminescence nanoparticles by dynamic light scattering, laser Doppler and capillary electrophoresis. Colloids and Surfaces B: Biointerfaces, 2015, 136, 272-281.	5.0	19
44	Separation of Î±â€lactalbumin graftedâ€•and nonâ€grafted maghemite core/silica shell nanoparticles by capillary zone electrophoresis. Electrophoresis, 2010, 31, 2754-2761.	2.4	18
45	Kinetic analyses and performance of a colloidal magnetic nanoparticle based immunoassay dedicated to allergy diagnosis. Analytical and Bioanalytical Chemistry, 2011, 400, 3395-3407.	3.7	18
46	Electrokinetic Hummel-Dreyer characterization of nanoparticle-plasma protein corona: The non-specific interactions between PEG-modified persistent luminescence nanoparticles and albumin. Colloids and Surfaces B: Biointerfaces, 2017, 159, 437-444.	5.0	18
47	Microchip electrophoresis and electrochemical detection: A review on a growing synergistic implementation. Electrochimica Acta, 2021, 391, 138928.	5.2	18
48	Optimization of Two Fourier Transform Infrared Least-Squares Multivariate Analysis Methods for the Simultaneous Quantitation of Mixtures of Three Metal-Carbonyl Complexes in the Picomole Range. Applied Spectroscopy, 1998, 52, 1383-1390.	2.2	14
49	Simultaneous capillary electrophoretic analysis of inorganic anions and cations in postâ€blast extracts of acidâ€“aluminum mixtures. Journal of Separation Science, 2010, 33, 3177-3183.	2.5	14
50	Colorimetric analysis of the decomposition of S-nitrosothiols on paper-based microfluidic devices. Analyst, The, 2016, 141, 6314-6320.	3.5	14
51	Synthesis, Characterization and Evaluation of Peptide Nanostructures for Biomedical Applications. Molecules, 2021, 26, 4587.	3.8	14
52	Capillary electrophoresis profiles of fucoidan and heparin fractions: significance of mobility dispersity for their characterization. Journal of Separation Science, 2003, 26, 1154-1162.	2.5	13
53	Capillary and Microchip Electrophoretic Analyses of Explosives and their Residues. Separation and Purification Reviews, 2010, 39, 63-94.	5.5	13
54	Stereolithography based 3D-printed microfluidic device with integrated electrochemical detection. Electrochimica Acta, 2022, 407, 139888.	5.2	13

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55	Electrophoretic Methods for Characterizing Nanoparticles and Evaluating Their Bio-interactions for Their Further Use as Diagnostic, Imaging, or Therapeutic Tools. , 2018, , 397-421.		12
56	Capillary electrophoresis of inorganic anions in hydro-organic media. Journal of Chromatography A, 2004, 1032, 149-158.	3.7	11
57	Surface Functionalization of <scp>COC</scp> Microfluidic Materials by Plasma and Click Chemistry Processes. Plasma Processes and Polymers, 2013, 10, 959-969.	3.0	11
58	Characterization of phthalocyanine functionalized quantum dots by dynamic light scattering, laser Doppler, and capillary electrophoresis. Analytical and Bioanalytical Chemistry, 2017, 409, 1707-1715.	3.7	11
59	Singleâ€run separation of cationic, anionic, and polyanionic compounds by CEâ€ESIâ€MS. Electrophoresis, 2007, 28, 3070-3077.	2.4	10
60	Aptamer-conjugated nanoparticles: Preservation of targeting functionality demonstrated by microchip electrophoresis in frontal mode. Analytical Biochemistry, 2013, 435, 150-152.	2.4	10
61	Electrokinetic characterization of superparamagnetic nanoparticleâ€“aptamer conjugates: design of new highly specific probes for miniaturized molecular diagnostics. Analytical and Bioanalytical Chemistry, 2014, 406, 1089-1098.	3.7	10
62	Electrochemically assisted micro localized grafting of aptamers in a microchannel engraved in fluorinated thermoplastic polymer Dyneon THV. RSC Advances, 2015, 5, 11128-11131.	3.6	10
63	A Comprehensive Study of Silanization and Co-Condensation for Straightforward Single-Step Covalent Neutral Capillary Coating. Chromatographia, 2015, 78, 775-783.	1.3	10
64	Determination of aggregation thresholds of UV absorbing anionic surfactants by frontal analysis continuous capillary electrophoresis. Journal of Chromatography A, 2004, 1038, 275-282.	3.7	9
65	Determination of the aggregation threshold of nonâ€“UV-absorbing, neutral or charged surfactants by frontal- and vacancy-frontal analysis continuous capillary electrophoresis. Journal of Chromatography A, 2004, 1041, 219-226.	3.7	9
66	Capillary electrophoresis coupled to contactless conductivity detection for the analysis of Sâ€nitrosothiols decomposition and reactivity. Electrophoresis, 2015, 36, 1982-1988.	2.4	9
67	Characterization of home-made graphite/PDMS microband electrodes for amperometric detection in an original reusable glass-NOAÂ®-PDMS electrophoretic microdevice. Electrochimica Acta, 2020, 329, 135164.	5.2	9
68	Capillary electrophoresis with mass spectrometric detection for separation of S-nitrosoglutathione and its decomposition products: a deeper insight into the decomposition pathways. Analytical and Bioanalytical Chemistry, 2015, 407, 6221-6226.	3.7	8
69	Two-step local functionalization of fluoropolymer Dyneon THV microfluidic materials by scanning electrochemical microscopy combined to click reaction. Electrochemistry Communications, 2015, 60, 5-8.	4.7	7
70	Aptamer entrapment in microfluidic channel using oneâ€step solâ€gel process, in view of the integration of a new selective extraction phase for labâ€onâ€aâ€chip. Electrophoresis, 2017, 38, 2456-2461.	2.4	7
71	Aptamerâ€“Target Interaction: A Comprehensive Study by Microchip Electrophoresis in Frontal Mode. Chromatographia, 2013, 76, 305-312.	1.3	6
72	Quantitation of Cu⁺â€catalyzed Decomposition of Sâ€Nitrosoglutathione Using Saville and Electrochemical Detection: a Pronounced Effect of Glutathione and Copper Concentrations. Electroanalysis, 2015, 27, 2857-2863.	2.9	6

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73	Integrated microfluidic device for the separation, decomposition and detection of low molecular weight S-nitrosothiols. Analyst, The, 2019, 144, 180-185.	3.5	6
74	Surface functionalization of cyclic olefin copolymer by plasmaâ€enhanced chemical vapor deposition using atmospheric pressure plasma jet for microfluidic applications. Plasma Processes and Polymers, 2019, 16, 1800195.	3.0	6
75	Design, synthesis, and characterization of new cyclic d,l -Î±-alternate amino acid peptides by capillary electrophoresis coupled to electrospray ionization mass spectrometry. Analytical Biochemistry, 2016, 502, 8-15.	2.4	5
76	Online Capillary IsoElectric Focusing-ElectroSpray Ionization Mass Spectrometry (CIEF-ESI MS) in Glycerolâ€“Water Media for the Separation and Characterization of Hydrophilic and Hydrophobic Proteins. Methods in Molecular Biology, 2016, 1466, 57-66.	0.9	4
77	Speciation and quantitation of precious metals in model acidic leach liquors, theoretical and practical aspects of recycling. Analytical and Bioanalytical Chemistry, 2020, 412, 4595-4608.	3.7	4
78	Multiple Zones Modification of Open Off-Stoichiometry Thiol-Ene Microchannel by Aptamers: A Methodological Study & A Proof of Concept. Chemosensors, 2020, 8, 24.	3.6	4
79	Superparamagnetic iron oxide nanoparticles functionalized with a binary alkoxysilane array and poly(4-vinylpyridine) for magnetic targeting and pH-responsive release of doxorubicin. New Journal of Chemistry, 2021, 45, 3600-3609.	2.8	4
80	Cooperation increases between analytical sciences and recycling. TrAC - Trends in Analytical Chemistry, 2013, 48, 22-29.	11.4	3
81	Electrografting of aryl diazonium on thin layer platinum microbands: Towards customized surface functionalization within microsystems. Electrochemistry Communications, 2016, 70, 78-81.	4.7	3
82	Electrokinetic elucidation of the interactions between persistent luminescent nanoprobes and the binary apolipoprotein-E/albumin protein system. Analyst, The, 2021, 146, 5245-5254.	3.5	3
83	A deep understanding of the self-assembly and colloidal stability of light and pH dual-responsive spiropyran random copolymer micelle-like nano-aggregates. Materials Today Communications, 2022, 31, 103499.	1.9	2
84	Physicochemical Characterization of Phthalocyanine-Functionalized Quantum Dots by Capillary Electrophoresis Coupled to a LED Fluorescence Detector. Methods in Molecular Biology, 2019, 2000, 373-385.	0.9	1
85	Reversible microfluidics device for precious metal electrodeposition and depletion yield studies. Electrochimica Acta, 2020, 352, 136474.	5.2	1
86	Determination of Critical Micelle Concentrations by Capillary Electrokinetic Techniques. , 0, , 33-54.		0
87	Characterization of New Cyclic d,l-Î±-Alternate Amino Acid Peptides by Capillary Electrophoresis Coupled to Electrospray Ionization Mass Spectrometry. Methods in Molecular Biology, 2019, 1855, 315-326.	0.9	0