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	Stereolithography based 3D-printed microfluidic device with integrated electrochemical detection. Electrochimica Acta, 2022, 407, 139888.	5.2	13
2	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
3	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
4	Synthesis, Characterization and Evaluation of Peptide Nanostructures for Biomedical Applications. Molecules, 2021, 26, 4587.	3.8	14
5	Microchip electrophoresis and electrochemical detection: A review on a growing synergistic implementation. Electrochimica Acta, 2021, 391, 138928.	5.2	18
6	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
7	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
8	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
9	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
10	Reversible microfluidics device for precious metal electrodeposition and depletion yield studies. Electrochimica Acta, 2020, 352, 136474.	5.2	1
11	Integrated microfluidic device for the separation, decomposition and detection of low molecular weight S-nitrosothiols. Analyst, The, 2019, 144, 180-185.	3.5	6
12	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
13	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
14	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
15	Clickable-Zwitterionic Copolymer Capped-Quantum Dots for in Vivo Fluorescence Tumor Imaging. ACS Applied Materials & Interfaces, 2018, 10, 17107-17116.	8.0	43
16	Electrophoretic Methods for Characterizing Nanoparticles and Evaluating Their Bio-interactions for Their Further Use as Diagnostic, Imaging, or Therapeutic Tools. , 2018, , 397-421.		12
17	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
18	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

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19	Photo-stimulation of persistent luminescence nanoparticles enhances cancer cells death. International Journal of Pharmaceutics, 2017, 532, 696-703.	5.2	21
20	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
21	Long-term toxicological effects of persistent luminescence nanoparticles after intravenous injection in mice. International Journal of Pharmaceutics, 2017, 532, 686-695.	5.2	38
22	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
23	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
24	Colorimetric analysis of the decomposition of S-nitrosothiols on paper-based microfluidic devices. Analyst, The, 2016, 141, 6314-6320.	3.5	14
25	Electrografting of aryl diazonium on thin layer platinum microbands: Towards customized surface functionalization within microsystems. Electrochemistry Communications, 2016, 70, 78-81.	4.7	3
26	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
27	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
28	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
29	Capillary electrophoresis coupled to contactless conductivity detection for the analysis of Sâ€nitrosothiols decomposition and reactivity. Electrophoresis, 2015, 36, 1982-1988.	2.4	9
30	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
31	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
32	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
33	A Comprehensive Study of Silanization and Co-Condensation for Straightforward Single-Step Covalent Neutral Capillary Coating. Chromatographia, 2015, 78, 775-783.	1.3	10
34	On-line capillary isoelectric focusing hyphenated to native electrospray ionization mass spectrometry for the characterization of interferon-Î³ and variants. Analyst, The, 2015, 140, 543-550.	3.5	21
35	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
36	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

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37	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
38	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
39	Aptamerâ€“Target Interaction: A Comprehensive Study by Microchip Electrophoresis in Frontal Mode. Chromatographia, 2013, 76, 305-312.	1.3	6
40	Cooperation increases between analytical sciences and recycling. TrAC - Trends in Analytical Chemistry, 2013, 48, 22-29.	11.4	3
41	Aptamer-conjugated nanoparticles: Preservation of targeting functionality demonstrated by microchip electrophoresis in frontal mode. Analytical Biochemistry, 2013, 435, 150-152.	2.4	10
42	Red blood cells decorated with functionalized coreâ€“shell magnetic nanoparticles: elucidation of the adsorption mechanism. Chemical Communications, 2013, 49, 5393.	4.1	26
43	Magnetic core shell nanoparticles trapping in a microdevice generating high magnetic gradient. Lab on A Chip, 2011, 11, 833.	6.0	29
44	Microchip integrating magnetic nanoparticles for allergy diagnosis. Lab on A Chip, 2011, 11, 4207.	6.0	64
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	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
47	Interaction study of a lysozymeâ€binding aptamer with monoâ€and divalent cations by ACE. Electrophoresis, 2010, 31, 546-555.	2.4	28
48	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
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	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
51	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
52	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
53	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
54	Capillary and Microchip Electrophoretic Analyses of Explosives and their Residues. Separation and Purification Reviews, 2010, 39, 63-94.	5.5	13

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55	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
56	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
57	Chargeâ€based characterization of nanometric cationic bifunctional maghemite/silica core/shell particles by capillary zone electrophoresis. Electrophoresis, 2009, 30, 2572-2582.	2.4	46
58	Online CIEFâ€ESIâ€MS in glycerolâ€“water media with a view to hydrophobic protein applications. Electrophoresis, 2009, 30, 4040-4048.	2.4	31
59	A new insight into suction and dilution effects in capillary electrophoresis coupled to mass spectrometry via an electrospray ionization interface. Part Iâ€Suction effect. Electrophoresis, 2008, 29, 1957-1964.	2.4	56
60	Sizeâ€based characterization of nanometric cationic maghemite particles using capillary zone electrophoresis. Electrophoresis, 2008, 29, 3768-3778.	2.4	36
61	Recent strategies to improve resolution in capillary electrophoresisâ€”A review. Analytica Chimica Acta, 2008, 628, 9-23.	5.4	40
62	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
63	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
64	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
65	Singleâ€run separation of cationic, anionic, and polyanionic compounds by CEâ€ESIâ€MS. Electrophoresis, 2007, 28, 3070-3077.	2.4	10
66	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
67	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
68	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
69	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
70	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
71	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
72	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

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73	Evaluation of capillary isoelectric focusing in glycerol-water media with a view to hydrophobic protein applications. Electrophoresis, 2005, 26, 3369-3379.	2.4	30
74	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
75	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
76	Capillary electrophoresis of inorganic anions in hydro-organic media. Journal of Chromatography A, 2004, 1032, 149-158.	3.7	11
77	Capillary electrophoresis monitoring of halide impurities in ionic liquids. Analyst, The, 2004, 129, 1257.	3.5	25
78	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
79	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
80	Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide. Journal of Chromatography A, 2003, 987, 467-476.	3.7	20
81	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
82	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
83	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
84	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
85	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
86	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
87	Determination of Critical Micelle Concentrations by Capillary Electrokinetic Techniques. , 0, , 33-54.		0