

Anne Varenne

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

87
papers

1,765
citations

27
h-index

37
g-index

87
ext. papers

1,893
ext. citations

4.5
avg, IF

4.49
L-index

#	Paper	IF	Citations
87	Stereolithography based 3D-printed microfluidic device with integrated electrochemical detection. <i>Electrochimica Acta</i> , 2022 , 407, 139888	6.7	2
86	A deep understanding of the self-assembly and colloidal stability of light and pH dual-responsive spiropyran random copolymer micelle-like nano-aggregates.. <i>Materials Today Communications</i> , 2022 , 103499	2.5	0
85	Synthesis, Characterization and Evaluation of Peptide Nanostructures for Biomedical Applications. <i>Molecules</i> , 2021 , 26,	4.8	6
84	Electrokinetic elucidation of the interactions between persistent luminescent nanoprobe and the binary apolipoprotein-E/albumin protein system. <i>Analyst, The</i> , 2021 , 146, 5245-5254	5	1
83	Microchip electrophoresis and electrochemical detection: A review on a growing synergistic implementation. <i>Electrochimica Acta</i> , 2021 , 391, 138928	6.7	5
82	Superparamagnetic iron oxide nanoparticles functionalized with a binary alkoxysilane array and poly(4-vinylpyridine) for magnetic targeting and pH-responsive release of doxorubicin. <i>New Journal of Chemistry</i> , 2021 , 45, 3600-3609	3.6	2
81	Speciation and quantitation of precious metals in model acidic leach liquors, theoretical and practical aspects of recycling. <i>Analytical and Bioanalytical Chemistry</i> , 2020 , 412, 4595-4608	4.4	1
80	Multiple Zones Modification of Open Off-Stoichiometry Thiol-Ene Microchannel by Aptamers: A Methodological Study & A Proof of Concept. <i>Chemosensors</i> , 2020 , 8, 24	4	3
79	Reversible microfluidics device for precious metal electrodeposition and depletion yield studies. <i>Electrochimica Acta</i> , 2020 , 352, 136474	6.7	
78	Characterization of home-made graphite/PDMS microband electrodes for amperometric detection in an original reusable glass-NOA ⁶¹ -PDMS electrophoretic microdevice. <i>Electrochimica Acta</i> , 2020 , 329, 135164	6.7	8
77	Physicochemical Characterization of Phthalocyanine-Functionalized Quantum Dots by Capillary Electrophoresis Coupled to a LED Fluorescence Detector. <i>Methods in Molecular Biology</i> , 2019 , 2000, 373-385	1.4	1
76	Surface functionalization of cyclic olefin copolymer by plasma-enhanced chemical vapor deposition using atmospheric pressure plasma jet for microfluidic applications. <i>Plasma Processes and Polymers</i> , 2019 , 16, 1800195	3.4	3
75	Characterization of New Cyclic D,L- α -Alternate Amino Acid Peptides by Capillary Electrophoresis Coupled to Electrospray Ionization Mass Spectrometry. <i>Methods in Molecular Biology</i> , 2019 , 1855, 315-326	1.4	
74	Integrated microfluidic device for the separation, decomposition and detection of low molecular weight S-nitrosothiols. <i>Analyst, The</i> , 2018 , 144, 180-185	5	3
73	Clickable-Zwitterionic Copolymer Capped-Quantum Dots for in Vivo Fluorescence Tumor Imaging. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 17107-17116	9.5	29
72	Electrophoretic Methods for Characterizing Nanoparticles and Evaluating Their Bio-interactions for Their Further Use as Diagnostic, Imaging, or Therapeutic Tools 2018 , 397-421		6
71	Aptamer entrapment in microfluidic channel using one-step sol-gel process, in view of the integration of a new selective extraction phase for lab-on-a-chip. <i>Electrophoresis</i> , 2017 , 38, 2456-2461	3.6	6

70	Characterization of phthalocyanine functionalized quantum dots by dynamic light scattering, laser Doppler, and capillary electrophoresis. <i>Analytical and Bioanalytical Chemistry</i> , 2017 , 409, 1707-1715	4.4	8
69	Photo-stimulation of persistent luminescence nanoparticles enhances cancer cells death. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 696-703	6.5	15
68	Electrokinetic Hummel-Dreyer characterization of nanoparticle-plasma protein corona: The non-specific interactions between PEG-modified persistent luminescence nanoparticles and albumin. <i>Colloids and Surfaces B: Biointerfaces</i> , 2017 , 159, 437-444	6	12
67	Long-term toxicological effects of persistent luminescence nanoparticles after intravenous injection in mice. <i>International Journal of Pharmaceutics</i> , 2017 , 532, 686-695	6.5	24
66	Online Capillary IsoElectric Focusing-Electrospray Ionization Mass Spectrometry (CIEF-ESI MS) in Glycerol-Water Media for the Separation and Characterization of Hydrophilic and Hydrophobic Proteins. <i>Methods in Molecular Biology</i> , 2016 , 1466, 57-66	1.4	4
65	Recent advances in the development of capillary electrophoresis methodologies for optimizing, controlling, and characterizing the synthesis, functionalization, and physicochemical, properties of nanoparticles. <i>Analytical and Bioanalytical Chemistry</i> , 2016 , 408, 2669-75	4.4	20
64	Design, synthesis, and characterization of new cyclic d,l-alternate amino acid peptides by capillary electrophoresis coupled to electrospray ionization mass spectrometry. <i>Analytical Biochemistry</i> , 2016 , 502, 8-15	3.1	4
63	Electromigration separation methodologies for the characterization of nanoparticles and the evaluation of their behaviour in biological systems. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 84, 121-130	14.6	25
62	Colorimetric analysis of the decomposition of S-nitrosothiols on paper-based microfluidic devices. <i>Analyst, The</i> , 2016 , 141, 6314-6320	5	12
61	Electrografting of aryl diazonium on thin layer platinum microbands: Towards customized surface functionalization within microsystems. <i>Electrochemistry Communications</i> , 2016 , 70, 78-81	5.1	3
60	Two-step local functionalization of fluoropolymer Dyneon THV microfluidic materials by scanning electrochemical microscopy combined to click reaction. <i>Electrochemistry Communications</i> , 2015 , 60, 5-8	5.1	4
59	Capillary electrophoresis with mass spectrometric detection for separation of S-nitrosoglutathione and its decomposition products: a deeper insight into the decomposition pathways. <i>Analytical and Bioanalytical Chemistry</i> , 2015 , 407, 6221-6	4.4	8
58	A Comprehensive Study of Silanization and Co-Condensation for Straightforward Single-Step Covalent Neutral Capillary Coating. <i>Chromatographia</i> , 2015 , 78, 775-783	2.1	7
57	On-line capillary isoelectric focusing hyphenated to native electrospray ionization mass spectrometry for the characterization of interferon- β and variants. <i>Analyst, The</i> , 2015 , 140, 543-50	5	16
56	Functionalization and characterization of persistent luminescence nanoparticles by dynamic light scattering, laser Doppler and capillary electrophoresis. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 136, 272-81	6	18
55	Quantitation of Cu ⁺ -catalyzed Decomposition of S-Nitrosoglutathione Using Saville and Electrochemical Detection: a Pronounced Effect of Glutathione and Copper Concentrations. <i>Electroanalysis</i> , 2015 , 27, 2857-2863	3	6
54	Capillary electrophoresis coupled to contactless conductivity detection for the analysis of S-nitrosothiols decomposition and reactivity. <i>Electrophoresis</i> , 2015 , 36, 1982-8	3.6	8
53	Electrochemically assisted micro localized grafting of aptamers in a microchannel engraved in fluorinated thermoplastic polymer Dyneon THV. <i>RSC Advances</i> , 2015 , 5, 11128-11131	3.7	7

52	Electrokinetic characterization of superparamagnetic nanoparticle-aptamer conjugates: design of new highly specific probes for miniaturized molecular diagnostics. <i>Analytical and Bioanalytical Chemistry</i> , 2014 , 406, 1089-98	4.4	8
51	Surface Functionalization by Plasma Treatment and Click Chemistry of a New Family of Fluorinated Polymeric Materials for Microfluidic Chips. <i>Plasma Processes and Polymers</i> , 2014 , 11, 518-523	3.4	17
50	Surface Functionalization of COC Microfluidic Materials by Plasma and Click Chemistry Processes. <i>Plasma Processes and Polymers</i> , 2013 , 10, 959-969	3.4	11
49	Aptamer-Target Interaction: A Comprehensive Study by Microchip Electrophoresis in Frontal Mode. <i>Chromatographia</i> , 2013 , 76, 305-312	2.1	6
48	Cooperation increases between analytical sciences and recycling. <i>TrAC - Trends in Analytical Chemistry</i> , 2013 , 48, 22-29	14.6	3
47	Aptamer-conjugated nanoparticles: preservation of targeting functionality demonstrated by microchip electrophoresis in frontal mode. <i>Analytical Biochemistry</i> , 2013 , 435, 150-2	3.1	10
46	Red blood cells decorated with functionalized core-shell magnetic nanoparticles: elucidation of the adsorption mechanism. <i>Chemical Communications</i> , 2013 , 49, 5393-5	5.8	23
45	Magnetic core shell nanoparticles trapping in a microdevice generating high magnetic gradient. <i>Lab on A Chip</i> , 2011 , 11, 833-40	7.2	26
44	Microchip integrating magnetic nanoparticles for allergy diagnosis. <i>Lab on A Chip</i> , 2011 , 11, 4207-13	7.2	58
43	Kinetic analyses and performance of a colloidal magnetic nanoparticle based immunoassay dedicated to allergy diagnosis. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 400, 3395-407	4.4	17
42	Determination of binding parameters between lysozyme and its aptamer by frontal analysis continuous microchip electrophoresis (FACMCE). <i>Journal of Chromatography A</i> , 2011 , 1218, 4052-8	4.5	21
41	A chemometric approach for optimizing protein covalent immobilization on magnetic core-shell nanoparticles in view of an alternative immunoassay. <i>Talanta</i> , 2010 , 81, 1703-10	6.2	23
40	Capillary and Microchip Electrophoretic Analyses of Explosives and their Residues. <i>Separation and Purification Reviews</i> , 2010 , 39, 63-94	7.3	13
39	Interaction study of a lysozyme-binding aptamer with mono- and divalent cations by ACE. <i>Electrophoresis</i> , 2010 , 31, 546-55	3.6	26
38	Separation of alpha-lactalbumin grafted- and non-grafted maghemite core/silica shell nanoparticles by capillary zone electrophoresis. <i>Electrophoresis</i> , 2010 , 31, 2754-61	3.6	17
37	Simultaneous capillary electrophoretic analysis of inorganic anions and cations in post-blast extracts of acid-aluminum mixtures. <i>Journal of Separation Science</i> , 2010 , 33, 3177-83	3.4	13
36	Identification and determination of inorganic anions in real extracts from pre- and post-blast residues by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2010 , 1217, 6971-8	4.5	37
35	Separation and quantitation of milk whey proteins of close isoelectric points by on-line capillary isoelectric focusing--electrospray ionization mass spectrometry in glycerol-water media. <i>Journal of Chromatography A</i> , 2010 , 1217, 7293-301	4.5	32

34	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. <i>Journal of Chromatography A</i> , 2010 , 1217, 7949-55	4.5	33
33	Analysis of nerve agent degradation products in high-conductivity matrices by transient ITP preconcentration and CZE separation coupled to ESI-MS. <i>Electrophoresis</i> , 2009 , 30, 1522-30	3.6	18
32	New insight into suction and dilution effects in CE coupled to MS via an ESI interface. II--dilution effect. <i>Electrophoresis</i> , 2009 , 30, 1692-7	3.6	40
31	Charge-based characterization of nanometric cationic bifunctional maghemite/silica core/shell particles by capillary zone electrophoresis. <i>Electrophoresis</i> , 2009 , 30, 2572-82	3.6	45
30	Online CIEF-ESI-MS in glycerol-water media with a view to hydrophobic protein applications. <i>Electrophoresis</i> , 2009 , 30, 4040-8	3.6	27
29	A new insight into suction and dilution effects in capillary electrophoresis coupled to mass spectrometry via an electrospray ionization interface. Part I-Suction effect. <i>Electrophoresis</i> , 2008 , 29, 1957-64	3.6	52
28	Size-based characterization of nanometric cationic maghemite particles using capillary zone electrophoresis. <i>Electrophoresis</i> , 2008 , 29, 3768-78	3.6	34
27	Recent strategies to improve resolution in capillary electrophoresis—A review. <i>Analytica Chimica Acta</i> , 2008 , 628, 9-23	6.6	38
26	Field-amplified sample stacking for the detection of chemical warfare agent degradation products in low-conductivity matrices by capillary electrophoresis-mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1178, 239-47	4.5	39
25	Determination of nanoparticle diffusion coefficients by Taylor dispersion analysis using a capillary electrophoresis instrument. <i>Journal of Chromatography A</i> , 2008 , 1204, 226-32	4.5	82
24	Frontal analysis capillary electrophoresis hyphenated to electrospray ionization mass spectrometry for the characterization of the antithrombin/heparin pentasaccharide complex. <i>Analytical Chemistry</i> , 2007 , 79, 4987-93	7.8	45
23	Single-run separation of cationic, anionic, and polyanionic compounds by CE-ESI-MS. <i>Electrophoresis</i> , 2007 , 28, 3070-7	3.6	8
22	Analysis of sub-ppb levels of Fe(II), Co(II), and Ni(II) by electrokinetic supercharging preconcentration, CZE separation, and in-capillary derivatization. <i>Electrophoresis</i> , 2007 , 28, 3767-76	3.6	27
21	Determination of aqueous inclusion complexation constants and stoichiometry of alkyl(methyl)-methylimidazolium-based ionic liquid cations and neutral cyclodextrins by affinity capillary electrophoresis. <i>Journal of Separation Science</i> , 2007 , 30, 751-60	3.4	30
20	Nonaqueous capillary electrophoretic behavior of 2-aryl propionic acids in the presence of an achiral ionic liquid. A chemometric approach. <i>Journal of Chromatography A</i> , 2007 , 1138, 268-75	4.5	33
19	Evaluation of chiral ionic liquids as additives to cyclodextrins for enantiomeric separations by capillary electrophoresis. <i>Journal of Chromatography A</i> , 2007 , 1155, 134-41	4.5	113
18	Determination of trace cationic impurities in butylmethylimidazolium-based ionic liquids: from transient to comprehensive single-capillary counterflow isotachopheresis-zone electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 4859-71	3.6	32
17	Separation and identification of isomeric acidic degradation products of organophosphorus chemical warfare agents by capillary electrophoresis-ion trap mass spectrometry. <i>Journal of Chromatography A</i> , 2006 , 1137, 110-8	4.5	26

16	Peak shape modeling by Haarhoff-Van der Linde function for the determination of correct migration times: a new insight into affinity capillary electrophoresis. <i>Electrophoresis</i> , 2005 , 26, 3094-104	3.6	28
15	Evaluation of capillary isoelectric focusing in glycerol-water media with a view to hydrophobic protein applications. <i>Electrophoresis</i> , 2005 , 26, 3369-79	3.6	27
14	Determination of aggregation thresholds of UV absorbing anionic surfactants by frontal analysis continuous capillary electrophoresis. <i>Journal of Chromatography A</i> , 2004 , 1038, 275-82	4.5	9
13	Determination of the aggregation threshold of non-UV-absorbing, neutral or charged surfactants by frontal- and vacancy-frontal analysis continuous capillary electrophoresis. <i>Journal of Chromatography A</i> , 2004 , 1041, 219-26	4.5	9
12	Capillary electrophoresis of inorganic anions in hydro-organic media. Influence of ion-pairing and solvation phenomena. <i>Journal of Chromatography A</i> , 2004 , 1032, 149-58	4.5	11
11	Capillary electrophoresis monitoring of halide impurities in ionic liquids. <i>Analyst, The</i> , 2004 , 129, 1257-61		21
10	Influence of electrolyte nature on the separation selectivity of amphetamines in nonaqueous capillary electrophoresis: protonation degree versus ion pairing effects. <i>Electrophoresis</i> , 2003 , 24, 1577-86	3.6	27
9	Capillary electrophoresis profiles of fucoidan and heparin fractions: significance of mobility dispersity for their characterization. <i>Journal of Separation Science</i> , 2003 , 26, 1154-1162	3.4	11
8	Non-aqueous capillary electrophoresis of the positional isomers of a sulfated monosaccharide. <i>Journal of Chromatography A</i> , 2003 , 987, 467-76	4.5	18
7	Interaction of fucoidan with the proteins of the complement classical pathway. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2003 , 1651, 5-16	4	51
6	Regioselective desulfation of sulfated L-fucopyranoside by a new sulfoesterase from the marine mollusk <i>Pecten maximus</i> : application to the structural study of algal fucoidan (<i>Ascophyllum nodosum</i>). <i>FEBS Journal</i> , 2001 , 268, 5617-26		51
5	A new application of bioorganometallics: the first simultaneous triple assay by the carbonylmetalloimmunoassay (CMIA) method. <i>Journal of Organometallic Chemistry</i> , 1999 , 589, 92-97	2.3	47
4	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. <i>Applied Spectroscopy</i> , 1998 , 52, 1383-1390	3.1	12
3	Production of specific antibodies and development of a non-isotopic immunoassay for carbamazepine by the carbonyl metallo-immunoassay (CMIA) method. <i>Journal of Immunological Methods</i> , 1995 , 186, 195-204	2.5	39
2	Transition metal carbonyl labeling of proteins. A novel approach to a solid-phase two-site immunoassay using Fourier transform infrared spectroscopy. <i>Bioconjugate Chemistry</i> , 1992 , 3, 471-6	6.3	44
1	Determination of Critical Micelle Concentrations by Capillary Electrokinetic Techniques		33-54