Eric Peyrin

List of Publications by Year in descending order

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		136950	197818
121	3,112	32	49
papers	citations	h-index	g-index
123	123	123	2421
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Detection of small molecules by fluorescence intensity using single dye labeled aptamers and quencher transition metal ions. Biosensors and Bioelectronics, 2022, 205, 114091.	10.1	6
2	Melting Curve Analysis of Aptachains: Adenosine Detection with Internal Calibration. Biosensors, 2021, 11, 112.	4.7	4
3	Aptamer Switches Regulated by Postâ€Transition/Transition Metal Ions. Angewandte Chemie - International Edition, 2021, 60, 12346-12350.	13.8	19
4	Aptamer Switches Regulated by Postâ€Transition/Transition Metal lons. Angewandte Chemie, 2021, 133, 12454-12458.	2.0	8
5	Anti-pesticide DNA aptamers fail to recognize their targets with asserted micromolar dissociation constants. Analytica Chimica Acta, 2021, 1159, 338382.	5.4	11
6	Enantiomeric sensing and separation by nucleic acids. TrAC - Trends in Analytical Chemistry, 2020, 122, 115733.	11.4	4
7	Kissing interactions for the design of a multicolour fluorescence anisotropy chiral aptasensor. Talanta, 2019, 205, 120098.	5.5	8
8	Aptamer Efficacies for In Vitro and In Vivo Modulation of $\hat{l}\pm C$ -Conotoxin PrXA Pharmacology. Molecules, 2019, 24, 229.	3.8	8
9	Photochemistry on the Space Stationâ€"Aptamer Resistance to Space Conditions: Particles Exposure from Irradiation Facilities and Real Exposure Outside the International Space Station. Astrobiology, 2019, 19, 1063-1074.	3.0	6
10	Capillary electrophoretic apparatus for the endpoint detection in microtitration methods. Journal of Chromatography A, 2019, 1597, 220-224.	3.7	1
11	Panoply of Fluorescence Polarization/Anisotropy Signaling Mechanisms for Functional Nucleic Acid-Based Sensing Platforms. Analytical Chemistry, 2018, 90, 4236-4248.	6.5	38
12	Inline Coupling of Electrokinetic Preconcentration Method to Taylor Dispersion Analysis for Size-Based Characterization of Low-UV-Absorbing Nanoparticles. Analytical Chemistry, 2018, 90, 2493-2500.	6.5	17
13	Mirror-image aptamer kissing complex for arginine-vasopressin sensing. Analytica Chimica Acta, 2018, 1001, 143-150.	5.4	8
14	Non-SELEX isolation of DNA aptamers for the homogeneous-phase fluorescence anisotropy sensing of tau Proteins. Analytica Chimica Acta, 2018, 1038, 173-181.	5.4	44
15	A colorimetric nanosensor based on a selective target-responsive aptamer kissing complex. Nanoscale, 2017, 9, 4048-4052.	5. 6	11
16	Sequence requirements of oligonucleotide chiral selectors for the capillary electrophoresis resolution of lowâ€affinity DNA binders. Electrophoresis, 2017, 38, 1383-1390.	2,4	14
17	Linear Chain Formation of Split-Aptamer Dimers on Surfaces Triggered by Adenosine. Langmuir, 2017, 33, 12785-12792.	3.5	8
18	Efficient functional neutralization of lethal peptide toxins in vivo by oligonucleotides. Scientific Reports, 2017, 7, 7202.	3.3	22

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19	A lifetime-sensitive fluorescence anisotropy probe for DNA-based bioassays: The case of SYBR Green. Biosensors and Bioelectronics, 2017, 90, 140-145.	10.1	14
20	Toward sensitive immuno-based detection of tau protein by surface plasmon resonance coupled to carbon nanostructures as signal amplifiers. Biosensors and Bioelectronics, 2017, 93, 289-292.	10.1	63
21	Small molecule aptamer assays based on fluorescence anisotropy signal-enhancer oligonucleotides. Biosensors and Bioelectronics, 2016, 82, 155-161.	10.1	12
22	Detecting Alzheimer's disease biomarkers: From antibodies to new bio-mimetic receptors and their application to established and emerging bioanalytical platforms – A critical review. Analytica Chimica Acta, 2016, 940, 21-37.	5.4	47
23	Multianalytical Study of the Binding between a Small Chiral Molecule and a DNA Aptamer: Evidence for Asymmetric Steric Effect upon 3′- versus 5′-End Sequence Modification. Analytical Chemistry, 2016, 88, 11963-11971.	6.5	31
24	A combinatorial approach to the repertoire of RNA kissing motifs; towards multiplex detection by switching hairpin aptamers. Nucleic Acids Research, 2016, 44, 4450-4459.	14.5	29
25	ELAKCA: Enzyme-Linked Aptamer Kissing Complex Assay as a Small Molecule Sensing Platform. Analytical Chemistry, 2016, 88, 2570-2575.	6.5	25
26	Nucleic acid aptamers. Methods, 2016, 97, 1-2.	3.8	3
27	Fluorescence anisotropy-based structure-switching aptamer assay using a peptide nucleic acid (PNA) probe. Methods, 2016, 97, 69-74.	3.8	16
28	Optimization of Experimental Parameters to Explore Smallâ€Ligand/Aptamer Interactions through Use of ¹ Hâ€NMR Spectroscopy and Molecular Modeling. Chemistry - A European Journal, 2015, 21, 15740-15748.	3.3	6
29	Ultrafast capillary electrophoresis isolation of DNA aptamer for the PCR amplification-based small analyte sensing. Frontiers in Chemistry, 2015, 3, 49.	3.6	10
30	Macrocyclic Host-Dye Reporter for Sensitive Sandwich-Type Fluorescent Aptamer Sensor. Analytical Chemistry, 2015, 87, 3139-3143.	6.5	32
31	Chiral Resolution Capabilities of DNA Oligonucleotides. Analytical Chemistry, 2015, 87, 5491-5495.	6.5	42
32	An improved design of the kissing complex-based aptasensor for the detection of adenosine. Analytical and Bioanalytical Chemistry, 2015, 407, 6515-6524.	3.7	13
33	Riboswitches Based on Kissing Complexes for the Detection of Small Ligands. Angewandte Chemie - International Edition, 2014, 53, 6942-6945.	13.8	43
34	Catalytic DNA-based fluorescence polarization chiral sensing platform for l-histidine detection at trace level. Analytical and Bioanalytical Chemistry, 2014, 406, 1173-1179.	3.7	13
35	Capillary Gel Electrophoresis-Coupled Aptamer Enzymatic Cleavage Protection Strategy for the Simultaneous Detection of Multiple Small Analytes. Analytical Chemistry, 2014, 86, 4233-4240.	6.5	12
36	Microfluidic channel with embedded SERS 2D platform for the aptamer detection of ochratoxin A. Analytical and Bioanalytical Chemistry, 2013, 405, 1613-1621.	3.7	98

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37	Simple and Highly Enantioselective Electrochemical Aptamer-Based Binding Assay for Trace Detection of Chiral Compounds. Analytical Chemistry, 2012, 84, 5415-5420.	6.5	46
38	Single-Stranded DNA Binding Protein-Assisted Fluorescence Polarization Aptamer Assay for Detection of Small Molecules. Analytical Chemistry, 2012, 84, 7203-7211.	6.5	84
39	Major increases of the reactivity and selectivity in aminoglycoside O-alkylation due to the presence of fluoride ions. Tetrahedron, 2012, 68, 737-746.	1.9	12
40	Investigation of Low-Energy Proton Effects on Aptamer Performance for Astrobiological Applications. Astrobiology, 2011, 11, 207-211.	3.0	14
41	Aptamer enzymatic cleavage protection assay for the gold nanoparticle-based colorimetric sensing of small molecules. Analytica Chimica Acta, 2011, 706, 349-353.	5.4	29
42	Optimization of the structure-switching aptamer-based fluorescence polarization assay for the sensitive tyrosinamide sensing. Analytica Chimica Acta, 2011, 707, 191-196.	5.4	49
43	Fluorescence polarization biosensor based on an aptamer enzymatic cleavage protection strategy. Analytical and Bioanalytical Chemistry, 2011, 401, 3229-3234.	3.7	26
44	Rationally designed aptamer-based fluorescence polarization sensor dedicated to the small target analysis. Biosensors and Bioelectronics, 2010, 25, 1652-1657.	10.1	75
45	Multiplexed Detection of Small Analytes by Structure-Switching Aptamer-Based Capillary Electrophoresis. Analytical Chemistry, 2010, 82, 4613-4620.	6.5	29
46	Enantioselective Properties of Nucleic Acid Aptamer Molecular Recognition Elements., 2010,, 275-288.		2
47	Enantioseparation by MEKC using a ligand exchangeâ€based chiral pseudostationary phase. Electrophoresis, 2009, 30, 2869-2873.	2.4	10
48	Nucleic acid aptamer molecular recognition principles and application in liquid chromatography and capillary electrophoresis. Journal of Separation Science, 2009, 32, 1531-1536.	2.5	55
49	Chiral ligand-exchange chromatography of amino acids using porous graphitic carbon coated with a dinaphthyl derivative of neamine. Analytical and Bioanalytical Chemistry, 2009, 393, 655-660.	3.7	11
50	Aptamer-Modified Micellar Electrokinetic Chromatography for the Enantioseparation of Nucleotides. Analytical Chemistry, 2009, 81, 1169-1176.	6.5	34
51	Noncompetitive Fluorescence Polarization Aptamer-based Assay for Small Molecule Detection. Analytical Chemistry, 2009, 81, 7468-7473.	6.5	106
52	Determination of Cocaine in Human Plasma by Selective Solid-Phase Extraction Using an Aptamer-Based Sorbent. Analytical Chemistry, 2009, 81, 7081-7086.	6.5	81
53	Aptamers in Affinity Separations: Stationary Separation. , 2009, , 271-286.		2
54	Covalently bonded DNA aptamer chiral stationary phase for the chromatographic resolution of adenosine. Analytical and Bioanalytical Chemistry, 2008, 390, 1051-1057.	3.7	43

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55	Competitive affinity capillary electrophoresis assay based on a "hybrid―preâ€incubation/onâ€capillary mixing format using an enantioselective aptamer as affinity ligand. Journal of Separation Science, 2008, 31, 2239-2243.	2.5	6
56	Copper(II) complexes of lipophilic aminoglycoside derivatives for the amino acid enantiomeric separation by ligand-exchange liquid chromatography. Journal of Chromatography A, 2008, 1185, 291-295.	3.7	16
57	Aptamer-Based Enantioselective Competitive Binding Assay for the Trace Enantiomer Detection. Analytical Chemistry, 2007, 79, 4716-4719.	6.5	35
58	Chiral resolution of histidine using an anti-d-histidine l-RNA aptamer microbore columnâ ⁻ †. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 845, 186-190.	2.3	51
59	Aptamers as Ligands for Affinity Chromatography and Capillary Electrophoresis Applications. , 2006, , 324-342.		0
60	Enantiomeric Separation Using an I-RNA Aptamer as Chiral Additive in Partial-Filling Capillary Electrophoresis. Analytical Chemistry, 2006, 78, 3032-3039.	6.5	44
61	Reversal of the enantiomeric elution order of some aromatic amino acids using reversed-phase chromatographic supports coated with the teicoplanin chiral selector. Talanta, 2006, 68, 1032-1036.	5.5	16
62	Liquid chromatography, electrochromatography and capillary electrophoresis applications of DNA and RNA aptamers. Journal of Chromatography A, 2006, 1117, 1-10.	3.7	82
63	Recent developments in the HPLC enantiomeric separation using chiral selectors identified by a combinatorial strategy. Journal of Separation Science, 2006, 29, 1322-1331.	2.5	33
64	A l-RNA aptamer chiral stationary phase for the resolution of target and related compounds. Journal of Chromatography A, 2005, 1076, 62-70.	3.7	43
65	Thermodynamic origin of the chiral recognition of tryptophan on teicoplanin and teicoplanin aglycone stationary phases. Journal of Separation Science, 2005, 28, 409-420.	2.5	14
66	Chiral Stationary Phase Based on a Biostable l-RNA Aptamer. Analytical Chemistry, 2005, 77, 1993-1998.	6.5	56
67	Streptavidin chiral stationary phase for the separation of adenosine enantiomers. Journal of Chromatography A, 2004, 1036, 155-160.	3.7	15
68	Immobilized DNA Aptamers as Target-Specific Chiral Stationary Phases for Resolution of Nucleoside and Amino Acid Derivative Enantiomers. Analytical Chemistry, 2004, 76, 1015-1020.	6.5	119
69	Role of the vancomycin-ristocetin heterodimerization on the enantioselectivity of d,l-tryptophan and d,l-dansyl tryptophan. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2003, 795, 115-121.	2.3	8
70	Study of tryptophan enantiomer binding to a teicoplanin-based stationary phase using the perturbation technique. Journal of Chromatography A, 2003, 986, 45-53.	3.7	29
71	A DNA Aptamer as a New Target-Specific Chiral Selector for HPLC. Journal of the American Chemical Society, 2003, 125, 8672-8679.	13.7	189
72	Viscosityâ€Temperature Dependence on DNA Stretching: Slalom Chromatography Study. Journal of Liquid Chromatography and Related Technologies, 2003, 26, 883-893.	1.0	2

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73	Use of an Amino Stationary Phase to Study the Vancomycin Dimerization Dependence on Solute Enantioselectivity. Journal of Liquid Chromatography and Related Technologies, 2003, 26, 1027-1039.	1.0	3
74	Displacement Study on a Vancomycin-Based Stationary Phase Using N-acetyl-D-Alanine as a Competing Agent. Journal of Chromatographic Science, 2002, 40, 83-86.	1.4	14
75	STOICHIOMETRY AND FORMATION CONSTANTS OF SIX PAHs WITH Î ³ -CYCLODEXTRIN, DETERMINED BY HPLC USING A CYANO STATIONARY PHASE. Journal of Liquid Chromatography and Related Technologies, 2002, 25, 421-432.	1.0	12
76	A Framework Based on the Extended Wyman Concept for Analyzing the Salt Effects on the Solute Retention in High-Performance Affinity Chromatography. Analytical Chemistry, 2002, 74, 282-287.	6.5	13
77	Vancomycin Dimerization and Chiral Recognition Studied by High-Performance Liquid Chromatography. Analytical Chemistry, 2002, 74, 5205-5211.	6.5	30
78	Chromatographic determination of the association constants between nimesulide and native and modified 1²-cyclodextrins. Journal of Pharmaceutical and Biomedical Analysis, 2002, 29, 425-430.	2.8	32
79	Salt effects on the interaction of an amphiphilic model molecule with immobilized phosphatidylcholine monolayers. Journal of Chromatography A, 2002, 977, 185-192.	3.7	6
80	DNA migration regimes in hydrodynamic chromatography and slalom chromatography: evidence for a transition. Talanta, 2001, 55, 291-296.	5.5	16
81	FLOW RATE DEPENDENCE ON THE BIOPOLYMER RETENTION IN HYDRODYNAMIC CHROMATOGRAPHY. COMPARISON BETWEEN THE BEHAVIORS OF PROTEINS AND PLASMIDS. Journal of Liquid Chromatography and Related Technologies, 2001, 24, 1245-1252.	1.0	9
82	Chromatographic study of PAH- \hat{l}^2 CD inclusion complexes using a binary mixture and cyano-stationary phase. Chromatographia, 2001, 53, 624-628.	1.3	9
83	Interactions between D,L dansyl amino acids and immobilized teicoplanin: Study of the dual effect of sodium citrate on chiral recognition. Chromatographia, 2001, 53, 645-650.	1.3	15
84	Sucrose effect on reversed-phase liquid chromatography solute retention. Analytica Chimica Acta, 2001, 428, 83-88.	5.4	4
85	Dansyl amino acid enantiomer separation on a teicoplanin chiral stationary phase: effect of eluent pH. Journal of Chromatography A, 2001, 923, 37-43.	3.7	32
86	Mobile-phase-viscosity dependence on DNA separation in slalom chromatography. Journal of Chromatography A, 2000, 886, 1-7.	3.7	18
87	Use of the Na+ ion as an RPLC retention marker to investigate the association of dansyl amino acids with permethylated \hat{I}^2 -CD. Chromatographia, 2000, 52, 753-757.	1.3	8
88	18-crown-6-aminophenol isomer complexes studied by RPLC. Chromatographia, 2000, 52, 584-588.	1.3	3
89	MIGRATION BEHAVIOR MODELING OF ANIONIC SPECIES IN A HYDROORGANIC BACKGROUND ELECTROLYTE. Journal of Liquid Chromatography and Related Technologies, 2000, 23, 2789-2806.	1.0	8
90	A novel approach to study the inclusion mechanism of imidazole derivatives in micellar chromatography. Talanta, 2000, 52, 233-240.	5.5	6

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91	Effect of temperature on DNA fractionation in slalom chromatography. Talanta, 2000, 52, 1105-1110.	5. 5	9
92	Optimising mobile phase composition, its flow-rate and column temperature in HPLC using taboo search. Talanta, 2000, 51, 579-586.	5.5	16
93	Degree of Solute Inclusion in Native Î ² -Cyclodextrin:Â Chromatographic Approach. Analytical Chemistry, 2000, 72, 1263-1267.	6.5	6
94	Mechanism of DNA Hydrodynamic Separation in Chromatography. Analytical Chemistry, 2000, 72, 853-857.	6.5	24
95	Column Efficiency and Separation of DNA Fragments Using Slalom Chromatography:  Hydrodynamic Study and Fractal Considerations. Analytical Chemistry, 2000, 72, 4846-4852.	6.5	10
96	Fractal Considerations in Chromatography:Â Column Efficiency and the Multimicrocolumn System. Journal of Physical Chemistry A, 2000, 104, 8951-8954.	2.5	1
97	C60and C70HPLC Retention Reversal Study Using Organic Modifiers. Analytical Chemistry, 2000, 72, 1301-1306.	6.5	5
98	Chromatographic study of magnesium and calcium binding to immobilized human serum albumin. Biomedical Applications, 1999, 728, 167-174.	1.7	25
99	Chromatographic approach to study \hat{l}^2 -cyclodextrin as a promoter of the penetration of bifonazole into keratinic tissue. Biomedical Applications, 1999, 735, 289-291.	1.7	0
100	Chemometric approach to the treatment of benzodiazepine separation and peak broadening in capillary electrophoresis. Journal of Chromatography A, 1999, 849, 563-573.	3.7	21
101	Geometrical Model for the Retention of Fullerenes in High-Performance Liquid Chromatography. Analytical Chemistry, 1999, 71, 1326-1331.	6.5	26
102	Peculiarities of the mechanism of retention of imidazole derivatives when using hydroxypropyl-β-cyclodextrin as mobile phase additive. Chromatographia, 1999, 49, 691-698.	1.3	19
103	Symmetry Breaking during the Formation of β-Cyclodextrinâ^'Imidazole Inclusion Compounds:  Capillary Electrophoresis Study. Analytical Chemistry, 1999, 71, 2046-2052.	6.5	36
104	Effect of tetrabutylammonium chloride as eluent modifier on the retention and enantioselectivity of ?,?dansyl amino acids using immobilized human serum albumin. Talanta, 1999, 49, 415-423.	5.5	14
105	Chemometric method to optimize chiral separation of imidazole derivatives by capillary electrophoresis. Talanta, 1999, 50, 533-540.	5.5	13
106	Characterization of Solute Binding at Human Serum Albumin Site II and its Geometry Using a Biochromatographic Approach. Biophysical Journal, 1999, 77, 1206-1212.	0.5	42
107	Reanalysis of Solute Retention on Immobilized Human Serum Albumin Using Fractal Geometry. Analytical Chemistry, 1999, 71, 1496-1499.	6.5	17
108	Retention Behavior Modelization of Monoprotic and Diprotic Species in a Hydroorganic Acetonitrile/Water Mixture. Analytical Chemistry, 1999, 71, 2708-2713.	6.5	13

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109	Combination of Fractal Geometry and Hydrodynamics:  A Novel Approach to the Study of a Multicapillary Electrophoresis System. Journal of Physical Chemistry B, 1999, 103, 5608-5611.	2.6	0
110	Peculiarities of an imidazole derivative retention mechanism in reversed-phase liquid chromatography: \hat{l}^2 -cyclodextrin concentration and temperature considerations. Journal of Chromatography A, 1998, 808, 51-60.	3.7	28
111	Retention behavior of d,l-dansyl-amino acids on a human serum albumin chiral stationary phase: effect of a mobile phase modifier. Journal of Chromatography A, 1998, 808, 113-120.	3.7	33
112	Chiral discrimination of N-(dansyl)-dl-amino acids on human serum albumin stationary phase: Effect of a mobile phase modifier. Chromatographia, 1998, 48, 431-435.	1.3	28
113	Sucrose Dependence of Solute Retention on Human Serum Albumin Stationary Phase:  Hydrophobic Effect and Surface Tension Considerations. Analytical Chemistry, 1998, 70, 2812-2818.	6.5	20
114	HSAâ^'Solute Interactions, Enantioselectivity, and Binding Site Geometrical Characteristics. Analytical Chemistry, 1998, 70, 4235-4240.	6.5	31
115	Retention Mechanism Study of Imidazole Derivatives on a \hat{l}^2 -Cyclodextrin-Bonded Stationary Phase. Thermal Analysis Contributions. Analytical Chemistry, 1998, 70, 2819-2826.	6.5	46
116	Peculiarities of Dansyl Amino Acid Enantioselectivity Using Human Serum Albumin as a Chiral Selector. Journal of Chromatographic Science, 1998, 36, 97-103.	1.4	45
117	A New Approach to Study Benzodiazepine Separation and the Differences Between a Methanol/Water and Acetonitrile/Water Mixture on Column Efficiency in Liquid Chromatography. Journal of Liquid Chromatography and Related Technologies, 1997, 20, 1741-1756.	1.0	20
118	Interactions between Dansyl Amino Acids and Human Serum Albumin Using High-Performance Liquid Chromatography:Â Mobile-Phase pH and Temperature Considerations. Analytical Chemistry, 1997, 69, 4979-4984.	6.5	70
119	Rapid determination of sulbactam and tazobactam in human serum by high-performance liquid chromatography. Biomedical Applications, 1995, 665, 363-371.	1.7	19
120	High-performance liquid chromatographic determination of tazobactam by precolumn derivatization. Biomedical Applications, 1995, 672, 160-164.	1.7	9
121	Aptamers for Separation of Enantiomers. , 0, , 213-228.		1