

Dugas Vincent

List of Publications by Year in descending order

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57
papers

1,709
citations

304743

22
h-index

289244

40
g-index

57
all docs

57
docs citations

57
times ranked

2154
citing authors

#	ARTICLE	IF	CITATIONS
1	Droplet Evaporation Study Applied to DNA Chip Manufacturing. <i>Langmuir</i> , 2005, 21, 9130-9136.	3.5	353
2	Surface hydroxylation and silane grafting on fumed and thermal silica. <i>Journal of Colloid and Interface Science</i> , 2003, 264, 354-361.	9.4	129
3	Immobilization of single-stranded DNA fragments to solid surfaces and their repeatable specific hybridization: covalent binding or adsorption?. <i>Sensors and Actuators B: Chemical</i> , 2004, 101, 112-121.	7.8	89
4	Optimisation of a silicon/silicon dioxide substrate for a fluorescence DNA microarray. <i>Biosensors and Bioelectronics</i> , 2004, 20, 797-806.	10.1	75
5	Online Separation and Identification of Isomers Using Infrared Multiple Photon Dissociation Ion Spectroscopy Coupled to Liquid Chromatography: Application to the Analysis of Disaccharides Regio-Isomers and Monosaccharide Anomers. <i>Analytical Chemistry</i> , 2018, 90, 11741-11745.	6.5	61
6	Assessment of porous silicon substrate for well-characterised sensitive DNA chip implement. <i>Biosensors and Bioelectronics</i> , 2005, 21, 908-916.	10.1	60
7	In-line coupling of an aptamer based miniaturized monolithic affinity preconcentration unit with capillary electrophoresis and Laser Induced Fluorescence detection. <i>Journal of Chromatography A</i> , 2015, 1406, 109-117.	3.7	58
8	Synthesis of a Library of Fucosylated Glycoclusters and Determination of their Binding toward <i>Pseudomonas aeruginosa</i> Lectin B (PA-IL) Using a DNA-Based Carbohydrate Microarray. <i>Bioconjugate Chemistry</i> , 2012, 23, 1534-1547.	3.6	51
9	Development of an acrylate monolith in a cycloolefin copolymer microfluidic device for chip electrochromatography separation. <i>Electrophoresis</i> , 2008, 29, 4948-4955.	2.4	50
10	Back to BAC: Insights into Boronate Affinity Chromatography Interaction Mechanisms. <i>Separation and Purification Reviews</i> , 2018, 47, 214-228.	5.5	46
11	Low-cost, fast prototyping method of fabrication of the microreactor devices in soda-lime glass. <i>Sensors and Actuators B: Chemical</i> , 2008, 128, 552-559.	7.8	41
12	Photopolymerization of acrylamide as a new functionalization way of silica monoliths for hydrophilic interaction chromatography and coated silica capillaries for capillary electrophoresis. <i>Journal of Chromatography A</i> , 2014, 1326, 89-95.	3.7	39
13	Is click chemistry attractive for separation sciences?. <i>Journal of Separation Science</i> , 2013, 36, 2049-2062.	2.5	36
14	New "one-step" method for the simultaneous synthesis and anchoring of organic monolith inside COC microchip channels. <i>Lab on A Chip</i> , 2012, 12, 1680.	6.0	32
15	Characterization of Three Amino-Functionalized Surfaces and Evaluation of Antibody Immobilization for the Multiplex Detection of Tumor Markers Involved in Colorectal Cancer. <i>Langmuir</i> , 2013, 29, 1498-1509.	3.5	30
16	Chemical Reactions in Dense Monolayers: In Situ Thermal Cleavage of Grafted Esters for Preparation of Solid Surfaces Functionalized with Carboxylic Acids. <i>Langmuir</i> , 2011, 27, 14188-14200.	3.5	28
17	Development and application of a new in-line coupling of a miniaturized boronate affinity monolithic column with capillary zone electrophoresis for the selective enrichment and analysis of cis-diol-containing compounds. <i>Journal of Chromatography A</i> , 2017, 1494, 65-76.	3.7	28
18	"Thiol-ene" photoclick chemistry as a rapid and localizable functionalization pathway for silica capillary monolithic columns. <i>Journal of Chromatography A</i> , 2014, 1355, 296-300.	3.7	27

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19	High-throughput site-directed mutagenesis using oligonucleotides synthesized on DNA chips. <i>BioTechniques</i> , 2005, 39, 363-368.	1.8	26
20	Surface Sensitization Techniques and Recognition Receptors Immobilization on Biosensors and Microarrays. , 2010, , 47-134.		25
21	Improved chromatographic performances of glycidyl methacrylate anion exchange monolith for fast nano ion exchange chromatography. <i>Journal of Separation Science</i> , 2011, 34, 2079-2087.	2.5	24
22	Preparation and full characterization of a micro-immunoaffinity monolithic column and its in-line coupling with capillary zone electrophoresis with Ochratoxin A as model solute. <i>Journal of Chromatography A</i> , 2012, 1232, 93-100.	3.7	24
23	Purification of Coomassie Brilliant Blue G-250 by multiple dual mode countercurrent chromatography. <i>Journal of Chromatography A</i> , 2012, 1232, 134-141.	3.7	24
24	Influence of main whey protein components on the mechanism of complex coacervation with Acacia gum. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2015, 481, 367-374.	4.7	22
25	Silanization of silica and glass slides for DNA microarrays by impregnation and gas phase protocols: A comparative study. <i>Materials Science and Engineering C</i> , 2011, 31, 384-390.	7.3	20
26	Photografting as a versatile, localizable, and single step surface functionalization of silica based monoliths dedicated to microscale separation techniques. <i>Journal of Separation Science</i> , 2013, 36, 993-1001.	2.5	20
27	Development of Innovative and Versatile Polythiol Probes for Use on ELOSA or Electrochemical Biosensors: Application in Hepatitis C Virus Genotyping. <i>Analytical Chemistry</i> , 2013, 85, 9204-9212.	6.5	19
28	Miniaturized weak affinity chromatography for ligand identification of nanodiscs-embedded G-protein coupled receptors. <i>Analytica Chimica Acta</i> , 2020, 1113, 26-35.	5.4	18
29	Assessment of 35mer amino-modified oligonucleotide based microarray with bacterial samples. <i>Journal of Microbiological Methods</i> , 2004, 57, 207-218.	1.6	17
30	Immobilisation of oligo-peptidic probes for microarray implementation: Characterisation by FTIR, Atomic Force Microscopy and 2D fluorescence. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005, 822, 304-310.	2.3	17
31	In situ characterization of antibody grafting on porous monolithic supports. <i>Analytical Biochemistry</i> , 2012, 420, 147-154.	2.4	17
32	Versatile ene-thiol photoclick reaction for preparation of multimodal monolithic silica capillary columns. <i>Journal of Chromatography A</i> , 2014, 1365, 140-147.	3.7	17
33	Evaluation of boronate affinity solid-phase extraction coupled in-line to capillary isoelectric focusing for the analysis of catecholamines in urine. <i>Analytica Chimica Acta</i> , 2018, 1034, 195-203.	5.4	16
34	Monolith weak affinity chromatography for $\hat{1}$ / $\hat{4}$ g-protein-ligand interaction study. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 166, 164-173.	2.8	16
35	Use of microtechnology for DNA chips implementation. <i>Applied Surface Science</i> , 2000, 164, 246-251.	6.1	15
36	Characterization of DNA chips on the molecular scale before and after hybridization with an atomic force microscope. <i>Applied Surface Science</i> , 2005, 252, 1765-1771.	6.1	15

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37	One-pot synthesis of a new high vinyl content hybrid silica monolith dedicated to nanoliquid chromatography. <i>Journal of Separation Science</i> , 2016, 39, 842-850.	2.5	13
38	Synthesis and Surface Reactivity of Vinylized Macroporous Silica Monoliths: One-Pot Hybrid versus Postsynthesis Grafting Strategies. <i>Langmuir</i> , 2015, 31, 11649-11658.	3.5	12
39	Development of a new in-line coupling of a miniaturized boronate affinity monolithic column with reversed-phase silica monolithic capillary column for analysis of cis-diol-containing nucleoside compounds. <i>Journal of Chromatography A</i> , 2019, 1597, 209-213.	3.7	12
40	Synthesis and Characterization of Ammonium Functionalized Porous Poly(glycidyl) Ether /Overlock 10 Tf 50 627 Td (methacrylate) DNA Purification. <i>Journal of Biomedical Nanotechnology</i> , 2011, 7, 415-425.	1.1	10
41	Hyphenation of short monolithic silica capillary column with vacuum ultraviolet spectroscopy detector for light hydrocarbons separation. <i>Journal of Chromatography A</i> , 2019, 1595, 174-179.	3.7	10
42	New Method for DNA Microarrays Development: Applied to Human Platelet Antigens Polymorphisms. <i>Biomedical Microdevices</i> , 2005, 7, 137-141.	2.8	9
43	Development of a New Microextraction Fiber Combined to On-Line Sample Stacking Capillary Electrophoresis UV Detection for Acidic Drugs Determination in Real Water Samples. <i>International Journal of Environmental Research and Public Health</i> , 2017, 14, 739.	2.6	9
44	Behavior of macroporous vinyl silica and silica monolithic columns in high pressure gas chromatography. <i>Journal of Chromatography A</i> , 2017, 1504, 105-111.	3.7	8
45	AFM characterization of ss-DNA probes immobilization: a sequence effect on surface organization. <i>Journal of Physics: Conference Series</i> , 2007, 61, 658-662.	0.4	7
46	Off-line coupling of capillary isotachopheresis separation to IRMPD spectroscopy for glycosaminoglycans analysis: Application to the chondroitin sulfate disaccharides model solutes. <i>Journal of Chromatography A</i> , 2020, 1617, 460782.	3.7	6
47	Affinity Chromatography: A Powerful Tool in Drug Discovery for Investigating Ligand/membrane Protein Interactions. <i>Separation and Purification Reviews</i> , 2021, 50, 315-332.	5.5	6
48	Miniaturizing and automation of free acidity measurements for uranium (VI)-HNO ₃ solutions: Development of a new sequential injection analysis for a sustainable radio-analytical chemistry. <i>Talanta</i> , 2016, 159, 330-335.	5.5	5
49	Behavior of short silica monolithic columns in high pressure gas chromatography. <i>Journal of Chromatography A</i> , 2016, 1460, 153-159.	3.7	5
50	Two Original Experimental Setups for Staircase Frontal Affinity Chromatography at the Miniaturized Scale. <i>Analytical Chemistry</i> , 2021, 93, 16981-16986.	6.5	3
51	PREPARATION OF CORE-SHELL SILVER/SILICA NANOPARTICLES AND THEIR APPLICATION FOR ENHANCEMENT OF CYANINE 3 FLUORESCENCE. <i>International Journal of Nanoscience</i> , 2012, 11, 1240020.	0.7	2
52	Monolith Passive Adsorbers Prepared with Hydrophobic Porous Silica Rods Coated with Hydrogel. <i>Analytical Letters</i> , 2018, 51, 935-954.	1.8	2
53	Microfluidic ballistic regime for the generation of linear gradients inside a capillary column: Proof-of-concept and application to the miniaturized acid-base volumetric titration. <i>Talanta</i> , 2019, 196, 237-242.	5.5	2
54	Miniaturized antithrombin III affinity monolithic columns coupled to TOF-MS for the selective capture and release of fondaparinux a high affinity antithrombin III ligand. <i>Talanta</i> , 2022, 241, 123275.	5.5	2

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55	Development of a multi-layering protein grafting process on miniaturized monolithic columns for weak affinity nano liquid chromatography application purposes. Journal of Chromatography A, 2021, 1657, 462567.	3.7	1
56	Acid deprotection of covalently immobilized peptide probes on glass slides for peptide microarrays. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 2242-6.	0.5	0
57	Photopotential Imaging on Functionalized Surfaces Dedicated to Label-Free Detection of Biomolecular Interactions. Procedia Engineering, 2011, 25, 932-935.	1.2	0