

# Dominic Lariviere

## List of Publications by Year in descending order

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88  
papers

2,289  
citations

201674

27  
h-index

243625

44  
g-index

91  
all docs

91  
docs citations

91  
times ranked

1924  
citing authors

#	ARTICLE	IF	CITATIONS
1	Functionalization of mesoporous materials for lanthanide and actinide extraction. Dalton Transactions, 2016, 45, 14832-14854.	3.3	126
2	Large Pore Mesostructured Organosilica-Phosphonate Hybrids as Highly Efficient and Regenerable Sorbents for Uranium Sequestration. Chemistry of Materials, 2012, 24, 4166-4176.	6.7	116
3	Radionuclide determination in environmental samples by inductively coupled plasma mass spectrometry. Spectrochimica Acta, Part B: Atomic Spectroscopy, 2006, 61, 877-904.	2.9	110
4	Nanostructured Hybrid Materials for the Selective Recovery and Enrichment of Rare Earth Elements. Advanced Functional Materials, 2014, 24, 2668-2676.	14.9	108
5	Phosphonate-functionalized large pore 3-D cubic mesoporous (KIT-6) hybrid as highly efficient actinide extracting agent. Chemical Communications, 2011, 47, 11525.	4.1	88
6	Recent Advances in the Separation of Rare Earth Elements Using Mesoporous Hybrid Materials. Chemical Record, 2018, 18, 1261-1276.	5.8	73
7	Highly Efficient and Selective Recovery of Rare Earth Elements Using Mesoporous Silica Functionalized by Preorganized Chelating Ligands. ACS Applied Materials & Interfaces, 2017, 9, 38584-38593.	8.0	72
8	Automated flow injection system using extraction chromatography for the determination of plutonium in urine by inductively coupled plasma mass spectrometry. Journal of Analytical Atomic Spectrometry, 2008, 23, 352-360.	3.0	68
9	Validation of an inductively coupled plasma mass spectrometry (ICP-MS) method for the determination of cerium, strontium, and titanium in ceramic materials used in radiological dispersal devices (RDDs). Analytica Chimica Acta, 2007, 588, 166-172.	5.4	63
10	Functionalization of Mesoporous Carbon Materials for Selective Separation of Lanthanides under Acidic Conditions. ACS Applied Materials & Interfaces, 2017, 9, 12003-12012.	8.0	63
11	Selective Separation and Preconcentration of Scandium with Mesoporous Silica. ACS Applied Materials & Interfaces, 2018, 10, 448-457.	8.0	59
12	Selective recovery of rare earth elements using chelating ligands grafted on mesoporous surfaces. RSC Advances, 2015, 5, 103782-103789.	3.6	47
13	Micro-extraction procedures for the determination of Ra-226 in well waters by SF-ICP-MS. Analytica Chimica Acta, 2005, 528, 175-182.	5.4	44
14	Determination of radium-226 in environmental samples by inductively coupled plasma mass spectrometry after sequential selective extraction. Journal of Analytical Atomic Spectrometry, 2003, 18, 338-343.	3.0	43
15	Cloud point extraction of uranium using H <sub>2</sub> DEH[MDP] in acidic conditions. Talanta, 2013, 107, 284-291.	5.5	42
16	Size-Selective Separation of Rare Earth Elements Using Functionalized Mesoporous Silica Materials. ACS Applied Materials & Interfaces, 2019, 11, 23681-23691.	8.0	41
17	Determination of Pb in environmental samples after cloud point extraction using crown ether. Talanta, 2018, 179, 300-306.	5.5	39
18	Determination of <sup>210</sup> Pb at ultra-trace levels in water by ICP-MS. Analytica Chimica Acta, 2005, 549, 188-196.	5.4	38

#	ARTICLE	IF	CITATIONS
19	Cloud Point Extraction of Plutonium in Environmental Matrixes Coupled to ICPMS and $\hat{I}\pm$ Spectrometry in Highly Acidic Conditions. <i>Analytical Chemistry</i> , 2013, 85, 10549-10555.	6.5	38
20	Support effects in rare earth element separation using diglycolamide-functionalized mesoporous silica. <i>New Journal of Chemistry</i> , 2016, 40, 4325-4334.	2.8	38
21	Rapid determination of actinides and $^{90}\text{Sr}$ in river water. <i>Analytica Chimica Acta</i> , 2015, 883, 109-116.	5.4	35
22	A comparative study of sample dissolution techniques and plasma-based instruments for the precise and accurate quantification of REEs in mineral matrices. <i>Analytica Chimica Acta</i> , 2017, 961, 33-41.	5.4	35
23	Collision cell chemistry for the analysis of radioisotopes by inductively coupled plasma mass spectrometry. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2003, 258, 473-480.	1.5	34
24	Understanding Selectivity of Mesoporous Silica-Grafted Diglycolamide-Type Ligands in the Solid-Phase Extraction of Rare Earths. <i>ACS Applied Materials &amp; Interfaces</i> , 2020, 12, 57003-57016.	8.0	34
25	Selective separation and preconcentration of Th( $^{232}\text{Th}$ ) using organo-functionalized, hierarchically porous silica monoliths. <i>Journal of Materials Chemistry A</i> , 2019, 7, 289-302.	10.3	33
26	Title is missing!. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2003, 256, 53-60.	1.5	31
27	Hyphenation of flow injection on-line preconcentration and ICP-MS for the rapid determination of $^{226}\text{Ra}$ in natural waters. <i>Journal of Analytical Atomic Spectrometry</i> , 2005, 20, 523.	3.0	31
28	Rapid and automated sequential determination of ultra-trace long-lived actinides in air filters by inductively coupled plasma mass spectrometry. <i>Analytical Methods</i> , 2010, 2, 259.	2.7	27
29	Quantification of rare earth elements using cloud point extraction with diglycolamide and ICP-MS for environmental analysis. <i>Analytical Methods</i> , 2014, 6, 9291-9298.	2.7	27
30	Determination of neptunium in environmental samples by extraction chromatography after valence adjustment. <i>Applied Radiation and Isotopes</i> , 2010, 68, 2132-2139.	1.5	26
31	Multi-dimensional extraction chromatography of actinides for alpha and mass spectrometry. <i>Analytical Methods</i> , 2011, 3, 1560.	2.7	25
32	Rapid, versatile and sensitive method for the quantification of radium in environmental samples through cationic extraction and inductively coupled plasma mass spectrometry. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 1031-1040.	3.0	25
33	Sequential automated fusion/extraction chromatography methodology for the dissolution of uranium in environmental samples for mass spectrometric determination. <i>Analytica Chimica Acta</i> , 2011, 684, 40-46.	5.4	24
34	Radiostrontium and radium analysis in low-level environmental samples following a multi-stage semi-automated chromatographic sequential separation. <i>Applied Radiation and Isotopes</i> , 2011, 69, 8-17.	1.5	24
35	Uranium bone content as an indicator of chronic environmental exposure from drinking water. <i>Journal of Environmental Radioactivity</i> , 2013, 121, 98-103.	1.7	23
36	Rapid and selective leaching of actinides and rare earth elements from rare earth-bearing minerals and ores. <i>Hydrometallurgy</i> , 2018, 177, 187-196.	4.3	22

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37	AGE DEPENDENCE OF NATURAL URANIUM AND THORIUM CONCENTRATIONS IN BONE. Health Physics, 2007, 92, 119-126.	0.5	21
38	A bioassay method for americium and curium in feces. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 477-482.	1.5	21
39	Determination of <sup>226</sup> Ra in sediments by ICP-MS: A comparative study of three sample preparation approaches. Journal of Radioanalytical and Nuclear Chemistry, 2007, 273, 337-344.	1.5	20
40	Water-dispersable colloidal quantum dots for the detection of ionizing radiation. Chemical Communications, 2013, 49, 11629.	4.1	20
41	Nanoporous ammonium molybdophosphate-silica hybrids as regenerable ultra-selective extraction agents for radiocesium monitoring. New Journal of Chemistry, 2013, 37, 3877.	2.8	20
42	Assessment of strategies for the formation of stable suspensions of titanium dioxide nanoparticles in aqueous media suitable for the analysis of biological fluids. Analytical and Bioanalytical Chemistry, 2020, 412, 1469-1481.	3.7	20
43	Chronic exposure by ingestion of environmentally relevant doses of <sup>226</sup> Ra leads to transient growth perturbations in fathead minnow ( <i>Pimephales promelas</i> , Rafinesque, 1820). International Journal of Radiation Biology, 2013, 89, 950-964.	1.8	19
44	Polyatomic Interferences Produced by Macroelements During Direct Multi-Elemental ICP-MS Hydrochemical Analysis. Geostandards and Geoanalytical Research, 2004, 28, 213-224.	1.9	18
45	Design of an adsorbent-bearing silica Schiff base ligand for the highly efficient removal of uranium and thorium in acidic solutions. Separation and Purification Technology, 2019, 228, 115709.	7.9	17
46	Revealing the Hydrolysis Mechanism of a Hg <sup>2+</sup> -Reactive Fluorescein Probe: Novel Insights on Thionocarbonated Dyes. ACS Omega, 2020, 5, 701-711.	3.5	17
47	Method intercomparison for the analysis of <sup>239/240</sup> Pu in human urine. Journal of Analytical Atomic Spectrometry, 2008, 23, 521.	3.0	16
48	Isotopic signature of selected lanthanides for nuclear activities profiling using cloud point extraction and ICP-MS/MS. Journal of Environmental Radioactivity, 2016, 155-156, 15-22.	1.7	16
49	Extraction and determination of Cs in natural waters by ICP-MS after ion exchange separation. Journal of Analytical Atomic Spectrometry, 2004, 19, 1225.	3.0	15
50	Automated pressurized injection system for the separation of actinides by extraction chromatography. Journal of Radioanalytical and Nuclear Chemistry, 2013, 295, 1803-1811.	1.5	15
51	A new rapid protocol for <sup>226</sup> Ra separation and preconcentration in natural water samples using molecular recognition technology for ICP-MS analysis. Journal of Environmental Radioactivity, 2019, 202, 1-7.	1.7	15
52	A rapid sequential chromatographic separation of U- and Th-decay series radionuclides in water samples. Talanta, 2020, 207, 120282.	5.5	15
53	Olive Oil Traceability Studies Using Inorganic and Isotopic Signatures: A Review. Molecules, 2022, 27, 2014.	3.8	15
54	A rapid sequential separation of actinides and radiostromium coupled to ICP-MS and gas proportional counting. Journal of Radioanalytical and Nuclear Chemistry, 2016, 310, 217-227.	1.5	14

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55	Scandium analysis in silicon-containing minerals by inductively coupled plasma tandem mass spectrometry. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , 2016, 118, 112-118.	2.9	14
56	Membrane interactions of a new class of anticancer agents derived from arylchloroethylurea: a FTIR spectroscopic study. <i>Chemistry and Physics of Lipids</i> , 2001, 111, 163-175.	3.2	13
57	Attogram measurement of <sup>210</sup> Pb in drinking water by ICP-MS/MS. <i>Journal of Analytical Atomic Spectrometry</i> , 2018, 33, 603-612.	3.0	13
58	Automated chromatographic separation coupled on-line to ICP-MS measurements for the quantification of actinides and radiostrontium in soil samples. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2017, 314, 127-139.	1.5	12
59	Estimation of uranium GI absorption fractions for children and adults. <i>Radiation Protection Dosimetry</i> , 2011, 144, 379-383.	0.8	11
60	Determination of polonium-210 in environmental samples using diglycolamide-based cloud point extraction coupled to alpha spectrometry analysis. <i>Applied Radiation and Isotopes</i> , 2021, 168, 109549.	1.5	11
61	Toxicity of tailing leachates from a niobium mine toward three aquatic organisms. <i>Ecotoxicology and Environmental Safety</i> , 2019, 176, 355-363.	6.0	9
62	Selective Removal of Uranium from Rare Earth Leachates via Magnetic Solid-Phase Extraction Using Schiff Base Ligands. <i>Industrial &amp; Engineering Chemistry Research</i> , 2019, 58, 306-315.	3.7	9
63	Quantification of titanium dioxide nanoparticles in human urine by single-particle ICP-MS. <i>Analytical and Bioanalytical Chemistry</i> , 2021, 413, 171-181.	3.7	9
64	Detection of beryllium in digested autopsy tissues by inductively coupled plasma mass spectrometry using a high matrix interface configuration. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 409-418.	3.7	8
65	Robust shell passivation of CdSe colloidal quantum dots to stabilize radioluminescence emission. <i>AIP Advances</i> , 2016, 6, 105011.	1.3	8
66	Gross actinide preconcentration using phosphonate-based ligand and cloud point extraction. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2016, 308, 527-537.	1.5	8
67	Characterization of a binary system composed of luminescent quantum dots for liquid scintillation. <i>Physics in Medicine and Biology</i> , 2018, 63, 175012.	3.0	8
68	Dosimetric properties of colloidal quantum dot-based systems for scintillation dosimetry. <i>Physics in Medicine and Biology</i> , 2019, 64, 095027.	3.0	8
69	Core-shell nanoparticles bearing Schiff base ligand for the selective extraction of uranium from REE leach liquors. <i>Hydrometallurgy</i> , 2022, 208, 105780.	4.3	8
70	A nuclear forensic method for determining the age of radioactive cobalt sources. <i>Analytical Methods</i> , 2014, 6, 983-992.	2.7	7
71	Detection of radium at the attogram per gram level in copper by inductively coupled plasma mass spectrometry after cation-exchange chromatography. <i>Analytical Methods</i> , 2020, 12, 2272-2278.	2.7	7
72	Neptunium(III) application in extraction chromatography. <i>Talanta</i> , 2011, 87, 8-14.	5.5	6

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73	Comparative Studies of Digestion Techniques for the Dissolution of Neodymium-Based Magnets. <i>Metals</i> , 2021, 11, 1149.	2.3	6
74	Dosimetric analysis of fathead minnow ( <i>Pimephales promelas</i> , Rafinesque, 1820) exposed via ingestion to environmentally relevant activities of Ra-226 for two years. <i>International Journal of Radiation Biology</i> , 2014, 90, 169-178.	1.8	5
75	Nanostructured Organosilica Hybrids as Highly Efficient and Regenerable Sorbents for Rare Earth Extraction. <i>ACS Symposium Series</i> , 2016, , 107-117.	0.5	3
76	Development of a radiochemical sequential procedure for the quantification of Th- and U-decay series elements in mining residues. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2020, 326, 1597-1607.	1.5	3
77	Colloidal Quantum Dot-Doped Optical Fibers for Scintillation Dosimetry. <i>IEEE Transactions on Nuclear Science</i> , 2020, 67, 1040-1044.	2.0	3
78	Scintillating quantum dots. <i>Imaging in Medical Diagnosis and Therapy</i> , 2016, , 343-362.	0.0	3
79	Light-Generating CdSe/CdS Colloidal Quantum Dot-Doped Plastic Optical Fibers. <i>ACS Applied Nano Materials</i> , 2020, 3, 6478-6488.	5.0	2
80	Results and Lessons Learned from Radiological/Nuclear Emergency Response Exercise Held in QuÃ©bec, Canada. <i>Health Physics</i> , 2012, 102, S67-S78.	0.5	1
81	Optimization of solid phase extraction chromatography for the separation of Np from U and Pu using experimental design tools in complex matrices. <i>Analytical Methods</i> , 2014, 6, 139-146.	2.7	1
82	Preliminary investigation of a luminescent colloidal quantum dots-based liquid scintillator. <i>Journal of Physics: Conference Series</i> , 2017, 847, 012043.	0.4	1
83	Rapid determination of <sup>210</sup> Pb and <sup>210</sup> Po by sequential cloud point extraction for environmental monitoring. <i>Analytical Methods</i> , 2022, 14, 199-202.	2.7	1
84	Impact of Variability in Precipitation Patterns on the Geochemistry of Pyritic Uranium Tailings Rehabilitated with Saturated Cover Technology. <i>Mining</i> , 2022, 2, 385-401.	2.4	1
85	Metal-Enhanced Hg <sup>2+</sup> -Responsive Fluorescent Nanoprobes: From Morphological Design to Application to Natural Waters. <i>ACS Omega</i> , 2022, 7, 22944-22955.	3.5	1
86	Nanoporous Sorbents: Nanostructured Hybrid Materials for the Selective Recovery and Enrichment of Rare Earth Elements ( <i>Adv. Funct. Mater.</i> 18/2014). <i>Advanced Functional Materials</i> , 2014, 24, 2667-2667.	14.9	0
87	Rapid and Selective Leaching of Actinides and Rare Earth Elements from Rare Earth-Bearing Minerals and Ores. <i>Minerals, Metals and Materials Series</i> , 2018, , 2323-2327.	0.4	0
88	Rapid removal of fluoride from water using core@shell and @shell nanoparticles of SiO <sub>2</sub> @ZrO <sub>2</sub> and @ZrO <sub>2</sub> . Investigation of the mechanisms involved and impact of elemental leaching. <i>Boletin De La Sociedad Espanola De Ceramica Y Vidrio</i> , 2022, 61, 576-584.	1.9	0