

# Erik L Regalado

## List of Publications by Year in descending order

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100  
papers

3,404  
citations

126907

33  
h-index

168389

53  
g-index

102  
all docs

102  
docs citations

102  
times ranked

2919  
citing authors

#	ARTICLE	IF	CITATIONS
1	Nanomole-scale high-throughput chemistry for the synthesis of complex molecules. <i>Science</i> , 2015, 347, 49-53.	12.6	454
2	Development of a Direct Photocatalytic C-H Fluorination for the Preparative Synthesis of Odanacatib. <i>Organic Letters</i> , 2015, 17, 5200-5203.	4.6	147
3	Ultrafast chiral separations for high throughput enantiopurity analysis. <i>Chemical Communications</i> , 2017, 53, 509-512.	4.1	117
4	Ultrafast Chiral Chromatography as the Second Dimension in Two-Dimensional Liquid Chromatography Experiments. <i>Analytical Chemistry</i> , 2017, 89, 3545-3553.	6.5	102
5	Current challenges and future prospects in chromatographic method development for pharmaceutical research. <i>TrAC - Trends in Analytical Chemistry</i> , 2017, 95, 36-46.	11.4	98
6	Electrochemical Synthesis of Hindered Primary and Secondary Amines via Proton-Coupled Electron Transfer. <i>Journal of the American Chemical Society</i> , 2020, 142, 468-478.	13.7	86
7	Separation of achiral analytes using supercritical fluid chromatography with chiral stationary phases. <i>TrAC - Trends in Analytical Chemistry</i> , 2015, 67, 74-81.	11.4	79
8	Palladium-Catalyzed Enantioselective Arylation of Aryl Sulfonate Anions: A Combined Experimental and Computational Study. <i>Journal of the American Chemical Society</i> , 2017, 139, 8337-8345.	13.7	71
9	Antiprotozoal Steroidal Saponins from the Marine Sponge <i>Pandaros acanthifolium</i> . <i>Journal of Natural Products</i> , 2010, 73, 1404-1410.	3.0	68
10	Parazoanthines A-E, Hydantoin Alkaloids from the Mediterranean Sea Anemone <i>Parazoanthus axinellae</i> . <i>Journal of Natural Products</i> , 2009, 72, 1612-1615.	3.0	66
11	Chaotropic Effects in Sub/Supercritical Fluid Chromatography via Ammonium Hydroxide in Water-Rich Modifiers: Enabling Separation of Peptides and Highly Polar Pharmaceuticals at the Preparative Scale. <i>Analytical Chemistry</i> , 2019, 91, 13907-13915.	6.5	64
12	Chromatographic Resolution of Closely Related Species in Pharmaceutical Chemistry: Dehalogenation Impurities and Mixtures of Halogen Isomers. <i>Analytical Chemistry</i> , 2014, 86, 805-813.	6.5	61
13	Pushing the speed limit in enantioselective supercritical fluid chromatography. <i>Journal of Separation Science</i> , 2015, 38, 2826-2832.	2.5	60
14	Ultrafast separation of fluorinated and desfluorinated pharmaceuticals using highly efficient and selective chiral selectors bonded to superficially porous particles. <i>Journal of Chromatography A</i> , 2015, 1426, 241-247.	3.7	59
15	A kinase-cGAS cascade to synthesize a therapeutic STING activator. <i>Nature</i> , 2022, 603, 439-444.	27.8	58
16	Extending the range of supercritical fluid chromatography by use of water-rich modifiers. <i>Organic and Biomolecular Chemistry</i> , 2013, 11, 4925.	2.8	54
17	Chromatographic resolution of closely related species: Drug metabolites and analogs. <i>Journal of Separation Science</i> , 2014, 37, 1094-1102.	2.5	50
18	The Emergence of Universal Chromatographic Methods in the Research and Development of New Drug Substances. <i>Accounts of Chemical Research</i> , 2019, 52, 1990-2002.	15.6	50

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19	Macrocyclic glycopeptide chiral selectors bonded to core-shell particles enables enantiopurity analysis of the entire verubecestat synthetic route. <i>Journal of Chromatography A</i> , 2018, 1539, 87-92.	3.7	48
20	Supercritical fluid chromatography for GMP analysis in support of pharmaceutical development and manufacturing activities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 117, 316-324.	2.8	47
21	First inter-laboratory study of a Supercritical Fluid Chromatography method for the determination of pharmaceutical impurities. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2018, 161, 414-424.	2.8	47
22	Isolation and identification of phenolic compounds from rum aged in oak barrels by high-speed countercurrent chromatography/high-performance liquid chromatography-diode array detection-electrospray ionization mass spectrometry and screening for antioxidant activity. <i>Journal of Chromatography A</i> , 2011, 1218, 7358-7364.	3.7	46
23	MISER chiral supercritical fluid chromatography for high throughput analysis of enantiopurity. <i>Journal of Chromatography A</i> , 2016, 1429, 374-379.	3.7	46
24	Chromatographic resolution of closely related species: Separation of warfarin and hydroxylated isomers. <i>Journal of Chromatography A</i> , 2013, 1314, 266-275.	3.7	44
25	Improved Chiral SFC Screening for Analytical Method Development. <i>Chirality</i> , 2013, 25, 799-804.	2.6	42
26	Overcoming "speed limits" in high throughput chromatographic analysis. <i>Journal of Chromatography A</i> , 2017, 1499, 211-216.	3.7	41
27	Effect of particle size on the speed and resolution of chiral separations using supercritical fluid chromatography. <i>Journal of Chromatography A</i> , 2014, 1363, 250-256.	3.7	40
28	The emergence of low-cost compact mass spectrometry detectors for chromatographic analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2016, 82, 22-34.	11.4	39
29	Support of academic synthetic chemistry using separation technologies from the pharmaceutical industry. <i>Organic and Biomolecular Chemistry</i> , 2014, 12, 2161.	2.8	38
30	Evaluation of global conformational changes in peptides and proteins following purification by supercritical fluid chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2019, 1110-1111, 94-100.	2.3	36
31	Repair of UVB-Damaged Skin by the Antioxidant Sulphated Flavone Glycoside Thalassiolin B Isolated from the Marine Plant <i>Thalassia testudinum</i> Banks ex K&Auml;nig. <i>Marine Biotechnology</i> , 2009, 11, 74-80.	2.4	34
32	Supercritical fluid chromatography-photodiode array detection-electrospray ionization mass spectrometry as a framework for impurity fate mapping in the development and manufacture of drug substances. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2018, 1080, 42-49.	2.3	34
33	Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments. <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1000-1009.	6.7	33
34	Introducing online multicolumn two-dimensional liquid chromatography screening for facile selection of stationary and mobile phase conditions in both dimensions. <i>Journal of Chromatography A</i> , 2020, 1622, 460895.	3.7	33
35	Multi-column ultra-high performance liquid chromatography screening with chaotropic agents and computer-assisted separation modeling enables process development of new drug substances. <i>Analyst</i> , 2019, 144, 2872-2880.	3.5	32
36	Search for improved fluorinated stationary phases for separation of fluorine-containing pharmaceuticals from their desfluoro analogs. <i>Journal of Chromatography A</i> , 2015, 1380, 45-54.	3.7	31

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37	Enhanced fluidity liquid chromatography: A guide to scaling up from analytical to preparative separations. <i>Journal of Chromatography A</i> , 2019, 1595, 190-198.	3.7	31
38	Enantioselective UHPLC Screening Combined with <i>In Silico</i> Modeling for Streamlined Development of Ultrafast Enantiopurity Assays. <i>Analytical Chemistry</i> , 2022, 94, 1804-1812.	6.5	31
39	Generic Enhanced Sub/Supercritical Fluid Chromatography: Blueprint for Highly Productive and Sustainable Separation of Primary Hindered Amines. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 6011-6021.	6.7	29
40	Expanding the range of sub/supercritical fluid chromatography: Advantageous use of methanesulfonic acid in water-rich modifiers for peptide analysis. <i>Journal of Chromatography A</i> , 2021, 1642, 462048.	3.7	29
41	Generic gas chromatography flame ionization detection method using hydrogen as the carrier gas for the analysis of solvents in pharmaceuticals. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2019, 165, 366-373.	2.8	28
42	Mapping the Separation Landscape in Two-Dimensional Liquid Chromatography: Blueprints for Efficient Analysis and Purification of Pharmaceuticals Enabled by Computer-Assisted Modeling. <i>Analytical Chemistry</i> , 2021, 93, 964-972.	6.5	27
43	Furfuran lignans and a flavone from <i>Artemisia gorgonum</i> Webb and their <i>in vitro</i> activity against <i>Plasmodium falciparum</i> . <i>Journal of Ethnopharmacology</i> , 2011, 138, 637-640.	4.1	26
44	Generic anion-exchange chromatography method for analytical and preparative separation of nucleotides in the development and manufacture of drug substances. <i>Journal of Chromatography A</i> , 2019, 1587, 129-135.	3.7	26
45	Liposome Artificial Membrane Permeability Assay by MALDI-hydrogen-deuterium exchange mass spectrometry for peptides and small proteins. <i>Analytica Chimica Acta</i> , 2020, 1099, 111-118.	5.4	26
46	Phytochemical Analysis and <i>in vitro</i> Free Radical Scavenging Activities of the Essential Oils from Leaf and Fruit of <i>Melaleuca leucadendra</i> L. <i>Chemistry and Biodiversity</i> , 2010, 7, 2281-2288.	2.1	25
47	Detection of dehalogenation impurities in organohalogenated pharmaceuticals by UHPLC-DAD-HRESIMS. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2014, 92, 1-5.	2.8	25
48	Kilo-Scale Electrochemical Oxidation of a Thioether to a Sulfone: A Workflow for Scaling up Electrosynthesis. <i>Organic Process Research and Development</i> , 2022, 26, 2423-2437.	2.7	25
49	Composition and Biological Properties of the Volatile Oil of <i>Artemisia gorgonum</i> Webb. <i>Chemistry and Biodiversity</i> , 2010, 7, 1325-1332.	2.1	24
50	Evaluation of capsaicin in chili peppers and hot sauces by MISER HPLC-ESIMS. <i>Analytical Methods</i> , 2014, 6, 857-862.	2.7	24
51	Antinociception Produced by <i>Thalassia Testudinum</i> Extract BM-21 is Mediated by the Inhibition of Acid Sensing Ionic Channels by the Phenolic Compound Thalassiolin B. <i>Molecular Pain</i> , 2011, 7, 1744-8069-7-10.	2.1	23
52	Acanthifoliosides, minor steroidal saponins from the Caribbean sponge <i>Pandaros acanthifolium</i> . <i>Tetrahedron</i> , 2011, 67, 1011-1018.	1.9	23
53	Investigation of two-dimensional high performance liquid chromatography approaches for reversed phase resolution of warfarin and hydroxywarfarin isomers. <i>Journal of Chromatography A</i> , 2014, 1363, 200-206.	3.7	22
54	Chromatographic Separation and Assignment of Absolute Configuration of Hydroxywarfarin Isomers. <i>Chirality</i> , 2014, 26, 95-101.	2.6	22

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55	GC-FID method for high-throughput analysis of residual solvents in pharmaceutical drugs and intermediates. <i>Green Chemistry</i> , 2016, 18, 3732-3739.	9.0	22
56	Generic gas chromatography-flame ionization detection method for quantitation of volatile amines in pharmaceutical drugs and synthetic intermediates. <i>Journal of Chromatography A</i> , 2017, 1518, 70-77.	3.7	22
57	Estimating optimal time for fast chromatographic separations. <i>Journal of Separation Science</i> , 2014, 37, 2552-2558.	2.5	21
58	Steroidal glycosides from the marine sponge <i>Pandaros acanthifolium</i> . <i>Steroids</i> , 2009, 74, 746-750.	1.8	20
59	Revealing the inner workings of the power function algorithm in Charged Aerosol Detection: A simple and effective approach to optimizing power function value for quantitative analysis. <i>Journal of Chromatography A</i> , 2019, 1603, 1-7.	3.7	19
60	Mapping the Separation Landscape of Pharmaceuticals: Rapid and Efficient Scale-Up of Preparative Purifications Enabled by Computer-Assisted Chromatographic Method Development. <i>Organic Process Research and Development</i> , 2019, 23, 2678-2684.	2.7	18
61	Introducing Multifactorial Peak Crossover in Analytical and Preparative Chromatography via Computer-Assisted Modeling. <i>Analytical Chemistry</i> , 2020, 92, 13443-13451.	6.5	18
62	<i>In Silico</i> Multifactorial Modeling for Streamlined Development and Optimization of Two-Dimensional Liquid Chromatography. <i>Analytical Chemistry</i> , 2021, 93, 11532-11539.	6.5	17
63	Chemical Composition and Biological Properties of the Leaf Essential Oil of <i>Tagetes lucida</i> Cav. from Cuba. <i>Journal of Essential Oil Research</i> , 2011, 23, 63-67.	2.7	16
64	Chiral analysis of poor UV absorbing pharmaceuticals by supercritical fluid chromatography-charged aerosol detection. <i>Journal of Supercritical Fluids</i> , 2016, 116, 20-25.	3.2	16
65	Comprehensive online multicolumn two-dimensional liquid chromatography-diode array detection-mass spectrometry workflow as a framework for chromatographic screening and analysis of new drug substances. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 2655-2663.	3.7	16
66	Ultra-high-throughput SPE-MALDI workflow: Blueprint for efficient purification and screening of peptide libraries. <i>Analytica Chimica Acta</i> , 2021, 1142, 10-18.	5.4	16
67	Cytotoxic and haemolytic steroidal glycosides from the Caribbean sponge <i>Pandaros acanthifolium</i> . <i>Steroids</i> , 2011, 76, 1389-1396.	1.8	15
68	Hydroxypyridyl Imines: Enhancing Chromatographic Separation and Stereochemical Analysis of Chiral Amines via Circular Dichroism. <i>Journal of Organic Chemistry</i> , 2016, 81, 8199-8205.	3.2	15
69	Denigrins and Dactylpyrroles, Arylpyrrole Alkaloids from a <i>Dactylia</i> sp. Marine Sponge. <i>Journal of Natural Products</i> , 2020, 83, 3464-3470.	3.0	15
70	Visualizing and studying frictional heating effects in reversed-phase liquid chromatography using infrared thermal imaging. <i>Analytica Chimica Acta</i> , 2018, 1018, 1-6.	5.4	14
71	Interlaboratory study of a supercritical fluid chromatography method for the determination of pharmaceutical impurities: Evaluation of multi-systems reproducibility. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2021, 203, 114206.	2.8	14
72	<i>In Silico</i> Method Development of Achiral and Chiral Tandem Column Reversed-phase Liquid Chromatography for Multicomponent Pharmaceutical Mixtures. <i>Analytical Chemistry</i> , 2022, 94, 4065-4071.	6.5	14

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73	Generic Ion Chromatographyâ€“Conductivity Detection Method for Analysis of Palladium Scavengers in New Drug Substances. <i>Organic Process Research and Development</i> , 2019, 23, 1060-1068.	2.7	13
74	In silico method development for the reversed-phase liquid chromatography separation of proteins using chaotropic mobile phase modifiers. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1173, 122587.	2.3	13
75	Bromopyrrole alkaloids from the caribbean sponge <i>Agelas cerebrum</i> . <i>Quimica Nova</i> , 2011, 34, 289-291.	0.3	12
76	Trappingâ€“Enrichment Multiâ€“dimensional Liquid Chromatography with Onâ€“line Deuterated Solvent Exchange for Streamlined Structure Elucidation at the Microgram Scale. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	12
77	Automated ion exchange chromatography screening combined with in silico multifactorial simulation for efficient method development and purification of biopharmaceutical targets. <i>Analytical and Bioanalytical Chemistry</i> , 2022, 414, 3581-3591.	3.7	11
78	Development of ProTx-II Analogues as Highly Selective Peptide Blockers of Na<sub>v</sub>1.7 for the Treatment of Pain. <i>Journal of Medicinal Chemistry</i> , 2022, 65, 485-496.	6.4	9
79	<i>In vitro</i> antiplasmodial activity, cytotoxicity and chemical profiles of sponge species of Cuban coasts. <i>Natural Product Research</i> , 2014, 28, 312-317.	1.8	8
80	<i>Endo</i> Selectivity in the (4 + 3) Cycloaddition of Oxidopyridinium Ions. <i>Organic Letters</i> , 2021, 23, 8302-8306.	4.6	8
81	Modulation of biotransformation and elimination systems by BM-21, an aqueous ethanolic extract from <i>Thalassia testudinum</i> , and thalassiolin B on human hepatocytes. <i>Journal of Functional Foods</i> , 2012, 4, 167-176.	3.4	7
82	Effect of pressure on the chromatographic separation of enantiomers under reversed-phase conditions. <i>Journal of Chromatography A</i> , 2014, 1352, 87-92.	3.7	7
83	Advanced reaction monitoring of pharmaceutical processes enabled with sub/supercritical fluid chromatography. <i>Journal of Supercritical Fluids</i> , 2021, 168, 105068.	3.2	7
84	Parallel chiral sub/supercritical fluid chromatography screening as a framework for accelerated purification of pharmaceutical targets. <i>Journal of Chromatography A</i> , 2022, 1674, 463094.	3.7	7
85	Phytochemical Analysis and Antioxidant Capacity of BM-21, a Bioactive Extract Rich in Polyphenolic Metabolites from the Sea Grass <i>Thalassia testudinum</i> . <i>Natural Product Communications</i> , 2012, 7, 1934578X1200700.	0.5	6
86	Industry-wide Collaboration toward an Efficient and Systematic Approach to Quantitative Solvent Analysis in Drug Substances. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 18517-18523.	6.7	6
87	Phytochemical analysis and antioxidant capacity of BM-21, a bioactive extract rich in polyphenolic metabolites from the sea Grass <i>Thalassia testudinum</i> . <i>Natural Product Communications</i> , 2012, 7, 47-50.	0.5	6
88	Sub/supercritical fluid chromatography versus liquid chromatography for peptide analysis. <i>Journal of Chromatography A</i> , 2022, 1676, 463282.	3.7	6
89	Photoprotecting Action and Phytochemical Analysis of a Multiple Radical Scavenger Lipophilic Fraction Obtained from the Leaf of the Seagrass<i>Thalassia testudinum</i>. <i>Photochemistry and Photobiology</i> , 2011, 87, 1058-1066.	2.5	5
90	Charged aerosol detection in early and late-stage pharmaceutical development: selection of regression models at optimum power function value. <i>Journal of Chromatography A</i> , 2021, 1641, 461997.	3.7	5

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91	Selective Plate-Based Assay for Trace EDTA Analysis via Boron Trifluoride-methanol Derivatization UHPLC-QqQ-MS/MS Enabling Biologic and Vaccine Processes. <i>Analytical Chemistry</i> , 2022, 94, 1678-1685.	6.5	5
92	Volatile constituents of <i>Thalassia testudinum</i> Banks ex König Leaves. <i>Journal of Essential Oil Research</i> , 2010, 22, 421-423.	2.7	4
93	Composition and antioxidant properties of the essential oil of the endemic Cape Verdean <i>Satureja forbesii</i> . <i>Natural Product Communications</i> , 2009, 4, 1277-80.	0.5	4
94	Polar alkaloids from the Caribbean marine sponge <i>Niphates digitalis</i> . <i>Natural Product Communications</i> , 2010, 5, 1187-90.	0.5	4
95	Trapping and Enrichment Multi-dimensional Liquid Chromatography with On-line Deuterated Solvent Exchange for Streamlined Structure Elucidation at the Microgram Scale. <i>Angewandte Chemie</i> , 2022, 134, .	2.0	3
96	Generic reversed-phase ultra-high-pressure liquid chromatography methodology developed by using computer-assisted modeling for streamlined performance evaluation of a wide range of stationary phase columns. <i>Separation Science Plus</i> , 2022, 5, 138-145.	0.6	3
97	Chemical Composition and Antioxidant Activities of the Essential Oil from <i>Tornabenea bischoffii</i> (Apiaceae). <i>Natural Product Communications</i> , 2011, 6, 1934578X1100600.	0.5	2
98	Are fluorine-rich pharmaceuticals lost by partition into fluoruous phases?. <i>Journal of Pharmaceutical and Biomedical Analysis</i> , 2016, 128, 106-110.	2.8	2
99	Decoloración de alginato de sodio extraído de las algas pardas marinas del género <i>Sargassum</i> con el uso de peróxido de hidrógeno. <i>Química Nova</i> , 2007, 30, 5-8.	0.3	0
100	Response to Comment on "Cocktail Chromatography: Enabling the Migration of HPLC to Nonlaboratory Environments". <i>ACS Sustainable Chemistry and Engineering</i> , 2015, 3, 1897-1897.	6.7	0