

Gertrud E Morlock

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2110377/publications.pdf>

Version: 2024-02-01

186
papers

5,256
citations

76294

40
h-index

133188

59
g-index

191
all docs

191
docs citations

191
times ranked

2994
citing authors

#	ARTICLE	IF	CITATIONS
1	Hyphenations in planar chromatography. <i>Journal of Chromatography A</i> , 2010, 1217, 6600-6609.	1.8	182
2	New coupling of planar chromatography with direct analysis in real time mass spectrometry. <i>Journal of Chromatography A</i> , 2007, 1143, 243-251.	1.8	177
3	Determination of isopropylthioxanthone (ITX) in milk, yoghurt and fat by HPTLC-FLD, HPTLC-ESI/MS and HPTLC-DART/MS. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 385, 586-595.	1.9	155
4	Coupling of planar chromatography to mass spectrometry. <i>TrAC - Trends in Analytical Chemistry</i> , 2010, 29, 1157-1171.	5.8	146
5	Simultaneous determination of riboflavin, pyridoxine, nicotinamide, caffeine and taurine in energy drinks by planar chromatography-multiple detection with confirmation by electrospray ionization mass spectrometry. <i>Journal of Chromatography A</i> , 2006, 1131, 253-260.	1.8	141
6	DART mass spectrometry and its applications in chemical analysis. <i>Russian Chemical Reviews</i> , 2011, 80, 235-255.	2.5	106
7	Combined multivariate data analysis of high-performance thin-layer chromatography fingerprints and direct analysis in real time mass spectra for profiling of natural products like propolis. <i>Journal of Chromatography A</i> , 2014, 1328, 104-112.	1.8	90
8	Automated interface for hyphenation of planar chromatography with mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 3772-3776.	0.7	86
9	Determination of drugs and drug-like compounds in different samples with direct analysis in real time mass spectrometry. <i>Mass Spectrometry Reviews</i> , 2011, 30, 875-883.	2.8	77
10	Sharp-bounded zones link to the effect in planar chromatography-bioassay-mass spectrometry. <i>Journal of Chromatography A</i> , 2014, 1360, 288-295.	1.8	77
11	BACKGROUND MASS SIGNALS IN TLC/HPTLC-ESI-MS AND PRACTICAL ADVICES FOR USE OF THE TLC-MS INTERFACE. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2014, 37, 2892-2914.	0.5	65
12	Bioprofiling of unknown antibiotics in herbal extracts: Development of a streamlined direct bioautography using <i>Bacillus subtilis</i> linked to mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1420, 110-118.	1.8	63
13	Improved online coupling of planar chromatography with electrospray mass spectrometry: extraction of zones from glass plates. <i>Analytical and Bioanalytical Chemistry</i> , 2006, 386, 1543-1551.	1.9	60
14	Development of a planar chromatographic method for quantitation of anthocyanes in pomace, feed, juice and wine. <i>Journal of Chromatography A</i> , 2013, 1289, 105-118.	1.8	60
15	Simultaneous Determination of Caffeine, Ergotamine, and Metamizol in Solid Pharmaceutical Formulation by HPTLC-UV-FLD with Mass Confirmation by Online HPTLC-ESI-MS. <i>Journal of Chromatographic Science</i> , 2007, 45, 251-255.	0.7	59
16	Tracking and identification of antibacterial components in the essential oil of <i>Tanacetum vulgare</i> L. by the combination of high-performance thin-layer chromatography with direct bioautography and mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1422, 310-317.	1.8	58
17	Efficacy of planar chromatography coupled to (tandem) mass spectrometry for employment in trace analysis. <i>Journal of Chromatography A</i> , 2006, 1128, 244-250.	1.8	57
18	Proof-of-Principle of rTLC, an Open-Source Software Developed for Image Evaluation and Multivariate Analysis of Planar Chromatograms. <i>Analytical Chemistry</i> , 2016, 88, 12494-12501.	3.2	57

#	ARTICLE	IF	CITATIONS
19	New method for caffeine quantification by planar chromatography coupled with electrospray ionization mass spectrometry using stable isotope dilution analysis. <i>Rapid Communications in Mass Spectrometry</i> , 2007, 21, 1297-1303.	0.7	55
20	Ambient desorption ionization mass spectrometry (DART, DESI) and its bioanalytical applications. <i>Bioanalytical Reviews</i> , 2011, 3, 1-9.	0.1	55
21	Assessing the capabilities of direct analysis in real time mass spectrometry for 5-hydroxymethylfurfural quantitation in honey. <i>International Journal of Mass Spectrometry</i> , 2012, 314, 22-32.	0.7	54
22	Liquid Chromatography-Bioassay-Mass Spectrometry for Profiling of Physiologically Active Food. <i>Analytical Chemistry</i> , 2014, 86, 8289-8295.	3.2	54
23	Rapid and sensitive determination of acrylamide in drinking water by planar chromatography and fluorescence detection after derivatization with dansulfinic acid. <i>Journal of Separation Science</i> , 2008, 31, 71-77.	1.3	53
24	From Bioprofiling and Characterization to Bioquantification of Natural Antibiotics by Direct Bioautography Linked to High-Resolution Mass Spectrometry: Exemplarily Shown for <i>Salvia miltiorrhiza</i> Root. <i>Analytical Chemistry</i> , 2016, 88, 10979-10986.	3.2	53
25	DART-Orbitrap MS: a novel mass spectrometric approach for the identification of phenolic compounds in propolis. <i>Analytical and Bioanalytical Chemistry</i> , 2012, 403, 2859-2867.	1.9	52
26	Bioprofiling of Surface/Wastewater and Bioquantitation of Discovered Endocrine-Active Compounds by Streamlined Direct Bioautography. <i>Analytical Chemistry</i> , 2015, 87, 11098-11104.	3.2	52
27	Development of a quantitative high-performance thin-layer chromatographic method for sucralose in sewage effluent, surface water, and drinking water. <i>Journal of Chromatography A</i> , 2011, 1218, 2745-2753.	1.8	51
28	Engineered Anisotropic Microstructures for Ultrathin-Layer Chromatography. <i>Analytical Chemistry</i> , 2010, 82, 5349-5356.	3.2	50
29	Effect-Directed Discovery of Bioactive Compounds Followed by Highly Targeted Characterization, Isolation and Identification, Exemplarily Shown for <i>Solidago virgaurea</i> . <i>Analytical Chemistry</i> , 2016, 88, 8202-8209.	3.2	50
30	Effect-directed analysis of ginger (<i>Zingiber officinale</i>) and its food products, and quantification of bioactive compounds via high-performance thin-layer chromatography and mass spectrometry. <i>Food Chemistry</i> , 2018, 243, 258-268.	4.2	50
31	Miniaturized Planar Chromatography Using Office Peripherals. <i>Analytical Chemistry</i> , 2010, 82, 2940-2946.	3.2	49
32	Open-Source-Based 3D Printing of Thin Silica Gel Layers in Planar Chromatography. <i>Analytical Chemistry</i> , 2017, 89, 2116-2122.	3.2	49
33	High-performance thin-layer chromatography combined with effect-directed assays and high-resolution mass spectrometry as an emerging hyphenated technology: A tutorial review. <i>Analytica Chimica Acta</i> , 2021, 1180, 338644.	2.6	47
34	Bioprofiling of Salicaceae bud extracts through high-performance thin-layer chromatography hyphenated to biochemical, microbiological and chemical detections. <i>Journal of Chromatography A</i> , 2017, 1490, 201-211.	1.8	46
35	Analytical strategy for rapid identification and quantification of lubricant additives in mineral oil by high-performance thin-layer chromatography with UV absorption and fluorescence detection combined with mass spectrometry and infrared spectroscopy. <i>Journal of AOAC INTERNATIONAL</i> , 2008, 91, 1237-43.	0.7	46
36	IDA-CUBE direct analysis in real time high-resolution mass spectrometry and its capabilities in the identification of phenolic components from the green leaves of <i>Bergenia crassifolia</i> L. <i>Rapid Communications in Mass Spectrometry</i> , 2012, 26, 1329-1337.	0.7	45

#	ARTICLE	IF	CITATIONS
37	Analysis of anthocyanins in powdered berry extracts by planar chromatography linked with bioassay and mass spectrometry. <i>Food Chemistry</i> , 2014, 146, 104-112.	4.2	45
38	Analysis and Stability of Sucralose in a Milk-Based Confection by a Simple Planar Chromatographic Method. <i>Journal of Agricultural and Food Chemistry</i> , 2007, 55, 7217-7223.	2.4	44
39	Quantitative surface scanning by Direct Analysis in Real Time mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 474-484.	0.7	44
40	COMPARISON OF TWO ORTHOGONAL LIQUID CHROMATOGRAPHIC METHODS FOR QUANTITATION OF SUGARS IN FOOD. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2011, 34, 902-919.	0.5	43
41	Profiling and classification of French propolis by combined multivariate data analysis of planar chromatograms and scanning direct analysis in real time mass spectra. <i>Journal of Chromatography A</i> , 2016, 1465, 197-204.	1.8	43
42	High-performance thin-layer chromatography analysis of steviol glycosides in Stevia formulations and sugar-free food products, and benchmarking with (ultra) high-performance liquid chromatography. <i>Journal of Chromatography A</i> , 2014, 1350, 102-111.	1.8	42
43	Bioprofiling of Cosmetics with Focus on Streamlined Coumarin Analysis. <i>ACS Omega</i> , 2017, 2, 5242-5250.	1.6	41
44	The contribution of planar chromatography to food analysis. <i>Journal of Planar Chromatography - Modern TLC</i> , 2007, 20, 399-406.	0.6	40
45	Some new features of Direct Analysis in Real Time mass spectrometry utilizing the <i>desorption at an angle</i> option. <i>Rapid Communications in Mass Spectrometry</i> , 2011, 25, 2275-2282.	0.7	40
46	Streamlined analysis of lactose-free dairy products. <i>Journal of Chromatography A</i> , 2014, 1324, 215-223.	1.8	40
47	HPTLC coupled with bioluminescence and mass spectrometry for bioactivity-based analysis of secondary metabolites in marine sponges. <i>Journal of Planar Chromatography - Modern TLC</i> , 2008, 21, 431-436.	0.6	39
48	Effect-directed fingerprints of 77 botanical extracts via a generic high-performance thin-layer chromatography method combined with assays and mass spectrometry. <i>Journal of Chromatography A</i> , 2017, 1529, 93-106.	1.8	39
49	Rapid Planar Chromatographic Analysis of 25 Water-Soluble Dyes Used as Food Additives. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 745-756.	0.7	38
50	Bioprofiling of <i>Salvia miltiorrhiza</i> via planar chromatography linked to (bio)assays, high resolution mass spectrometry and nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , 2018, 1533, 180-192.	1.8	37
51	Analysis of unauthorized Sudan dyes in food by high-performance thin-layer chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2018, 410, 5641-5651.	1.9	36
52	Effect-directed analysis of fresh and dried elderberry (<i>Sambucus nigra</i> L.) via hyphenated planar chromatography. <i>Journal of Chromatography A</i> , 2015, 1426, 209-219.	1.8	35
53	Effect-directed analysis via hyphenated high-performance thin-layer chromatography for bioanalytical profiling of sunflower leaves. <i>Journal of Chromatography A</i> , 2018, 1533, 213-220.	1.8	35
54	High-performance thin-layer chromatography linked with (bio)assays and mass spectrometry – A suited method for discovery and quantification of bioactive components? Exemplarily shown for turmeric and milk thistle extracts. <i>Journal of Chromatography A</i> , 2015, 1394, 137-147.	1.8	34

#	ARTICLE	IF	CITATIONS
55	Comparison of two different plunger geometries for HPTLC-MS coupling via an extractor-based interface. <i>Journal of Planar Chromatography - Modern TLC</i> , 2008, 21, 367-371.	0.6	33
56	Ultrathin-layer chromatography on SiO ₂ , Al ₂ O ₃ , TiO ₂ , and ZrO ₂ nanostructured thin films. <i>Journal of Chromatography A</i> , 2013, 1318, 234-243.	1.8	33
57	Non-target bioanalytical eight-dimensional hyphenation including bioassay, heart-cut trapping, online desalting, orthogonal separations and mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1647, 462154.	1.8	33
58	Two new derivatization reagents for planar chromatographic quantification of sucralose in dietetic products. <i>Journal of Planar Chromatography - Modern TLC</i> , 2007, 20, 411-417.	0.6	32
59	Validation of a new planar chromatographic method for quantification of the heterocyclic aromatic amines most frequently found in meat. <i>Analytical and Bioanalytical Chemistry</i> , 2007, 387, 1083-1093.	1.9	32
60	Quantification of Heterocyclic Aromatic Amines in Fried Meat by HPTLC/UV-FLD and HPLC/UV-FLD: A Comparison of Two Methods. <i>Journal of Agricultural and Food Chemistry</i> , 2008, 56, 4311-4319.	2.4	32
61	Electrospun nanofiber layers with incorporated photoluminescence indicator for chromatography and detection of ultraviolet-active compounds. <i>Journal of Chromatography A</i> , 2013, 1299, 110-117.	1.8	31
62	Distinction and valorization of 30 root extracts of five goldenrod (<i>Solidago</i>) species. <i>Journal of Chromatography A</i> , 2020, 1611, 460602.	1.8	31
63	Analysis of pesticide residues in drinking water by planar chromatography. <i>Journal of Chromatography A</i> , 1996, 754, 423-430.	1.8	29
64	Improved desorption/ionization and ion transmission in surface scanning by direct analysis in real time mass spectrometry. <i>Rapid Communications in Mass Spectrometry</i> , 2016, 30, 321-332.	0.7	29
65	Effect-directed classification of biological, biochemical and chemical profiles of 50 German beers. <i>Food Chemistry</i> , 2018, 260, 344-353.	4.2	29
66	Non-targeted detection and differentiation of agonists versus antagonists, directly in bioprofiles of everyday products. <i>Analytica Chimica Acta</i> , 2020, 1125, 288-298.	2.6	29
67	High-throughput planar solid-phase extraction coupled to orbitrap high-resolution mass spectrometry via the autoTLC-MS interface for screening of 66 multi-class antibiotic residues in food of animal origin. <i>Food Chemistry</i> , 2021, 351, 129211.	4.2	29
68	On-surface autosampling for liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2021, 1651, 462334.	1.8	29
69	Planar chromatographic screening and quantification of coumarin in food, confirmed by mass spectrometry. <i>Food Chemistry</i> , 2018, 239, 1182-1191.	4.2	28
70	Effect-Directed Profiling of Powdered Tea Extracts for Catechins, Theaflavins, Flavonols and Caffeine. <i>Antioxidants</i> , 2021, 10, 117.	2.2	27
71	Fast Equivalency Estimation of Unknown Enzyme Inhibitors in Situ the Effect-Directed Fingerprint, Shown for <i>Bacillus</i> Lipopeptide Extracts. <i>Analytical Chemistry</i> , 2018, 90, 14260-14268.	3.2	26
72	Automated piezoelectric spraying of biological and enzymatic assays for effect-directed analysis of planar chromatograms. <i>Journal of Chromatography A</i> , 2019, 1602, 458-466.	1.8	26

#	ARTICLE	IF	CITATIONS
73	Discovered acetylcholinesterase inhibition and antibacterial activity of polyacetylenes in tansy root extract via effect-directed chromatographic fingerprints. <i>Journal of Chromatography A</i> , 2018, 1543, 73-80.	1.8	25
74	quanTLC, an online open-source solution for videodensitometric quantification. <i>Journal of Chromatography A</i> , 2018, 1560, 78-81.	1.8	25
75	Direct bioautography hyphenated to direct analysis in real time mass spectrometry: Chromatographic separation, bioassay and mass spectra, all in the same sample run. <i>Journal of Chromatography A</i> , 2018, 1568, 188-196.	1.8	25
76	HI-HPTLC-UV/Vis/FLD-HESI-HRMS and bioprofiling of steviol glycosides, steviol, and isosteviol in Stevia leaves and foods. <i>Analytical and Bioanalytical Chemistry</i> , 2020, 412, 6431-6448.	1.9	25
77	Miniaturized planar chromatography using office peripherals – Office chromatography. <i>Journal of Chromatography A</i> , 2015, 1382, 87-96.	1.8	24
78	Comparison of high-performance thin-layer with overpressured layer chromatography combined with direct bioautography and direct analysis in real time mass spectrometry for tansy root. <i>Journal of Chromatography A</i> , 2019, 1603, 355-360.	1.8	24
79	Effect-directed analysis of cold-pressed hemp, flax and canola seed oils by planar chromatography linked with (bio)assays and mass spectrometry. <i>Food Chemistry</i> , 2015, 187, 460-468.	4.2	22
80	Office Chromatography: Miniaturized All-in-One Open-Source System for Planar Chromatography. <i>Analytical Chemistry</i> , 2018, 90, 12647-12654.	3.2	22
81	Open-source add-on kit for automation of zone elution in planar chromatography. <i>Rapid Communications in Mass Spectrometry</i> , 2020, 34, e8631.	0.7	22
82	Fast and Precise SBSE-HPTLC/FLD Method for Quantification of Six Polycyclic Aromatic Hydrocarbons Frequently Found in Water. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2008, 31, 1925-1942.	0.5	21
83	Chronology of thin-layer chromatography focusing on instrumental progress. <i>Journal of Planar Chromatography - Modern TLC</i> , 2008, 21, 471-477.	0.6	21
84	Microfabrication, separations, and detection by mass spectrometry on ultrathin-layer chromatography plates prepared via the low-pressure chemical vapor deposition of silicon nitride onto carbon nanotube templates. <i>Journal of Chromatography A</i> , 2015, 1404, 115-123.	1.8	21
85	Streamlined structure elucidation of an unknown compound in a pigment formulation. <i>Journal of Chromatography A</i> , 2016, 1469, 120-127.	1.8	21
86	Powerful Artificial Neural Network for Planar Chromatographic Image Evaluation, Shown for Denoising and Feature Extraction. <i>Analytical Chemistry</i> , 2018, 90, 6984-6991.	3.2	21
87	High-performance thin-layer chromatography hyphenated to high-performance liquid chromatography-diode array detection-mass spectrometry for characterization of coeluting isomers. <i>Talanta</i> , 2020, 219, 121306.	2.9	21
88	Comparison of an HPTLC method with the Reflectoquant assay for rapid determination of 5-hydroxymethylfurfural in honey. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 9207-9218.	1.9	20
89	Comparison and Characterization of Soybean and Sunflower Lecithins Used for Chocolate Production by High-Performance Thin-Layer Chromatography with Fluorescence Detection and Electro spray Mass Spectrometry. <i>Journal of Agricultural and Food Chemistry</i> , 2015, 63, 2893-2901.	2.4	20
90	Orthogonal Hyphenation of Planar and Liquid Chromatography for Mass Spectrometry of Biomarkers out of the Bioassay Matrix (NP-HPTLC-UV/vis/FLD-Bioassay-RP/IEX-HPLC-UV/vis-ESI-MS). <i>Analytical Chemistry</i> , 2020, 92, 9057-9064.	3.2	20

#	ARTICLE	IF	CITATIONS
91	Fast quantitation of 5-hydroxymethylfurfural in honey using planar chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2011, 401, 325-332.	1.9	19
92	Quantification of steviol glycosides in food products, Stevia leaves and formulations by planar chromatography, including proof of absence for steviol and isosteviol. <i>Journal of Chromatography A</i> , 2017, 1506, 109-119.	1.8	19
93	HYPHENATED HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY FOR PROFILING OF SOME INDIAN NATURAL EFFICIENCY ENHANCERS. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2012, 35, 1364-1387.	0.5	18
94	Inkjet application, chromatography, and mass spectrometry of sugars on nanostructured thin films. <i>Analytical and Bioanalytical Chemistry</i> , 2013, 405, 7195-7203.	1.9	18
95	Detection of Bioactive Compounds in the Mucus Nets of <i>Dendropoma maxima</i> , Sowerby 1825 (Prosobranch Gastropod Vermetidae, Mollusca). <i>Journal of Marine Biology</i> , 2013, 2013, 1-9.	1.0	18
96	Office Chromatography: Precise printing of sample solutions on miniaturized thin-layer phases and utilization for scanning Direct Analysis in Real Time mass spectrometry. <i>Journal of Chromatography A</i> , 2015, 1413, 127-134.	1.8	18
97	Selected Plant Metabolites Involved in Oxidation-Reduction Processes during Bud Dormancy and Ontogenetic Development in Sweet Cherry Buds (<i>Prunus avium</i> L.). <i>Molecules</i> , 2018, 23, 1197.	1.7	18
98	Multiplex planar bioassay with reduced diffusion on normal phase, identifying androgens, verified antiandrogens and synergists in botanicals via 12D hyphenation. <i>Food Chemistry</i> , 2022, 395, 133610.	4.2	18
99	Coupling of planar chromatography with Direct Analysis in Real Time mass spectrometry. <i>Open Chemistry</i> , 2012, 10, 703-710.	1.0	17
100	Isolation of flavonoids from <i>Musa acuminata</i> Colla (Simili radjah, ABB) and the in vitro inhibitory effects of its leaf and fruit fractions on free radicals, acetylcholinesterase, 15-lipoxygenase, and carbohydrate hydrolyzing enzymes. <i>Journal of Food Biochemistry</i> , 2020, 44, e13137.	1.2	17
101	Honeybee colonies compensate for pesticide-induced effects on royal jelly composition and brood survival with increased brood production. <i>Scientific Reports</i> , 2021, 11, 62.	1.6	17
102	Production of cyathane type secondary metabolites by submerged cultures of <i>Hericium erinaceus</i> and evaluation of their antibacterial activity by direct bioautography. <i>Fungal Biology and Biotechnology</i> , 2015, 2, 8.	2.5	16
103	Correct assignment of lipophilic dye mixtures? A case study for high-performance thin-layer chromatography—mass spectrometry and performance data for the TLC—MS Interface. <i>Journal of Chromatography A</i> , 2015, 1390, 103-111.	1.8	16
104	Effect-directed analysis by high-performance thin-layer chromatography for bioactive metabolites tracking in <i>Primula veris</i> flower and <i>Primula boveana</i> leaf extracts. <i>Journal of Chromatography A</i> , 2019, 1605, 460371.	1.8	16
105	Effect-directed profiling of aqueous, fermented plant preparations via high-performance thin-layer chromatography combined with <i>in situ</i> assays and high-resolution mass spectrometry. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2019, 42, 266-273.	0.5	16
106	Bioactive clerodane diterpenes of giant goldenrod (<i>Solidago gigantea</i> Ait.) root extract. <i>Journal of Chromatography A</i> , 2021, 1635, 461727.	1.8	16
107	Synergistic effect of lecithins for tocopherols: formation and antioxidant effect of the phosphatidylethanolamine—l-ascorbic acid condensate. <i>European Food Research and Technology</i> , 2017, 243, 583-596.	1.6	15
108	Fingerprinting and characterization of anthocyanins in 94 colored wheat varieties and blue aleurone and purple pericarp wheat crosses. <i>Journal of Chromatography A</i> , 2018, 1538, 75-85.	1.8	15

#	ARTICLE	IF	CITATIONS
109	Lovastatin in lactone and hydroxy acid forms and citrinin in red yeast rice powders analyzed by HPTLC-UV/FLD. <i>Analytical and Bioanalytical Chemistry</i> , 2019, 411, 6655-6665.	1.9	15
110	New Antidiabetic and Free-Radical Scavenging Potential of <i>Strictosamide</i> in <i>Sarcocephalus pobeguini</i> Ground Bark Extract via Effect-Directed Analysis. <i>ACS Omega</i> , 2019, 4, 5038-5043.	1.6	15
111	Effect-directed analysis of bioactive compounds in <i>Cannabis sativa</i> L. by high-performance thin-layer chromatography. <i>Journal of Chromatography A</i> , 2020, 1629, 461511.	1.8	15
112	Eight different bioactivity profiles of 40 cinnamons by multi-imaging planar chromatography hyphenated with effect-directed assays and high-resolution mass spectrometry. <i>Food Chemistry</i> , 2021, 357, 129135.	4.2	15
113	Multiplex planar bioassay detecting estrogens, antiestrogens, false-positives and synergists as sharp zones on normal phase. <i>Phytomedicine</i> , 2022, 103, 154230.	2.3	15
114	Efficacy of a Modified Printer for Application of Reagents in Planar Chromatography. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2007, 30, 2171-2184.	0.5	14
115	Analysis of Bioactive Components of Oilseed Cakes by High-Performance Thin-Layer Chromatography-(Bio)assay Combined with Mass Spectrometry. <i>Chromatography (Basel)</i> , 2015, 2, 125-140.	1.2	14
116	Miniaturized all-in-one nanoGIT+active system for on-surface metabolization, separation and effect imaging. <i>Analytica Chimica Acta</i> , 2021, 1154, 338307.	2.6	14
117	New HPTLC method, with systematic mobile-phase optimization, for determination of six apolar heterocyclic aromatic amines. <i>Journal of Planar Chromatography - Modern TLC</i> , 2004, 17, 431-434.	0.6	13
118	Analysis of biopolymers – The fingerprint of plants' polysaccharides used as thickening agents. <i>Journal of Planar Chromatography - Modern TLC</i> , 2012, 25, 244-250.	0.6	13
119	Miniaturization of Instrumental Planar Chromatography with Focus on Mass Spectrometry. <i>Chromatographia</i> , 2016, 79, 797-810.	0.7	13
120	The influence of preprocessing methods on multivariate image analysis in high-performance thin-layer chromatography fingerprinting. <i>Journal of Planar Chromatography - Modern TLC</i> , 2016, 29, 310-317.	0.6	13
121	Detection of low levels of genotoxic compounds in food contact materials using an alternative HPTLC-SOS-Umu-C assay. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2021, 38, 387-397.	0.9	13
122	Goldenrod Root Compounds Active against Crop Pathogenic Fungi. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 12686-12694.	2.4	13
123	Chromatography Combined with Bioassays and Other Hyphenations – The Direct Link to the Compound Indicating the Effect. <i>ACS Symposium Series</i> , 2014, , 101-121.	0.5	12
124	Aspects of surface scanning by direct analysis in real time mass spectrometry employing plasma glow visualization. <i>Rapid Communications in Mass Spectrometry</i> , 2015, 29, 1242-1252.	0.7	12
125	New incorporation of the S9 metabolizing system into methods for detecting acetylcholinesterase inhibition. <i>Analytica Chimica Acta</i> , 2020, 1129, 76-84.	2.6	12
126	The Bacterial Microbiome of the Long-Term Aquarium Cultured High-Microbial Abundance Sponge <i>Haliciona cnidata</i> – Sustained Bioactivity Despite Community Shifts Under Detrimental Conditions. <i>Frontiers in Marine Science</i> , 2020, 7, .	1.2	12

#	ARTICLE	IF	CITATIONS
127	Cholestasis impairs hepatic lipid storage via AMPK and CREB signaling in hepatitis B virus surface protein transgenic mice. <i>Laboratory Investigation</i> , 2020, 100, 1411-1424.	1.7	12
128	Comprehensive bioanalytical multi-imaging by planar chromatography in situ combined with biological and biochemical assays highlights bioactive fatty acids in abelmosk. <i>Talanta</i> , 2021, 223, 121701.	2.9	12
129	Effect-Directed Profiling of 17 Different Fortified Plant Extracts by High-Performance Thin-Layer Chromatography Combined with Six Planar Assays and High-Resolution Mass Spectrometry. <i>Molecules</i> , 2021, 26, 1468.	1.7	12
130	A bioimaging system combining human cultured reporter cells and planar chromatography to identify novel bioactive molecules. <i>Analytica Chimica Acta</i> , 2021, 1183, 338956.	2.6	12
131	Determination of Antidiabetic Polysaccharides of <i>Ocimum basilicum</i> Seeds Indigenous to Xinjiang of China by High-Performance Thin-Layer Chromatography-UV/Vis-Mass Spectrometry. <i>Journal of Planar Chromatography - Modern TLC</i> , 2014, 27, 11-18.	0.6	12
132	Maturity-related changes in venom toxicity of the freshwater stingray <i>Potamotrygon leopoldi</i> . <i>Toxicon</i> , 2014, 92, 97-101.	0.8	11
133	Letter: Characterization of Volatile and Semi-Volatile Compounds in Green and Fermented Leaves of <i>Bergenia Crassifolia</i> L. by Gas Chromatography-Mass Spectrometry and ID-CUBE Direct Analysis in Real Time-High Resolution Mass Spectrometry. <i>European Journal of Mass Spectrometry</i> , 2014, 20, 199-205.	0.5	11
134	Layer-Induced Sensitivity Enhancement in Planar Chromatography-“Bioluminescence”-Mass Spectrometry: Application to Alkaloids. <i>Chromatographia</i> , 2016, 79, 89-96.	0.7	11
135	High-performance thin-layer chromatography combined with pattern recognition techniques as tool to distinguish thickening agents. <i>Food Hydrocolloids</i> , 2017, 64, 78-84.	5.6	11
136	High-Performance Thin-Layer Chromatography Coupled with Electrospray Ionization Tandem Mass Spectrometry for Identifying Neutral Lipids and Sphingolipids in Complex Samples. <i>Journal of AOAC INTERNATIONAL</i> , 2018, 101, 1993-2000.	0.7	11
137	Simultaneous determination of mono-, di-, oligo- and polysaccharides via planar chromatography in 4 different prebiotic foods and 60 naturally degraded inulin samples. <i>Journal of Chromatography A</i> , 2018, 1569, 212-221.	1.8	11
138	Quantitative inkjet application on self-printed, binder-free HPTLC layers for submicromole-scaled analytical ¹ H NMR spectroscopy. <i>Analytica Chimica Acta</i> , 2019, 1087, 131-139.	2.6	11
139	Effect-directed profiling of <i>Ficus religiosa</i> leaf extracts for multipotent compounds via 12 effect-directed assays. <i>Journal of Chromatography A</i> , 2021, 1637, 461836.	1.8	11
140	Separation of pigment formulations by high-performance thin-layer chromatography with automated multiple development. <i>Journal of Chromatography A</i> , 2016, 1462, 134-145.	1.8	10
141	Challenges in quantitative high-performance thin-layer chromatography “Part 2: Influence of the application mode on the result. <i>Journal of Planar Chromatography - Modern TLC</i> , 2017, 30, 411-417.	0.6	10
142	Effect-directed screening of <i>Bacillus</i> lipopeptide extracts via hyphenated high-performance thin-layer chromatography. <i>Journal of Chromatography A</i> , 2019, 1605, 460366.	1.8	10
143	Guided isolation of new iridoid glucosides from <i>Anarrhinum pubescens</i> by high-performance thin-layer chromatography-acetylcholinesterase assay. <i>Journal of Chromatography A</i> , 2020, 1609, 460438.	1.8	10
144	Same analytical method for both (bio)assay and zone isolation to identify/quantify bioactive compounds by quantitative nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , 2020, 1628, 461434.	1.8	10

#	ARTICLE	IF	CITATIONS
145	Elicitation of antioxidant metabolites in <i>Musa</i> species in vitro shoot culture using sucrose, temperature and jasmonic acid. <i>Plant Cell, Tissue and Organ Culture</i> , 2021, 146, 225-236.	1.2	10
146	Open-source all-in-one LabToGo Office Chromatography. <i>Analytica Chimica Acta</i> , 2021, 1174, 338702.	2.6	10
147	Content of carbohydrates in tropical rainforest nectars of <i>Marantaceae</i> using high-performance thin-layer chromatography. <i>Journal of Planar Chromatography - Modern TLC</i> , 2015, 28, 162-166.	0.6	9
148	Equivalency calculation of unknown enzyme inhibitors in situ the adsorbent of effect-directed autograms. <i>Analytical Methods</i> , 2019, 11, 4939-4945.	1.3	9
149	In-process quality control of wine by planar chromatography versus micro planar chromatography. <i>Journal of Chromatography A</i> , 2019, 1588, 137-149.	1.8	9
150	Effect-directed profiling and identification of bioactive metabolites from field, in vitro-grown and acclimatized <i>Musa</i> spp. accessions using high-performance thin-layer chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , 2020, 1616, 460774.	1.8	9
151	Authentication of Commercial Powdered Tea Extracts (<i>Camellia sinensis</i> L.) by Gas Chromatography. <i>ACS Food Science & Technology</i> , 2021, 1, 596-604.	1.3	9
152	Effect-directed profiling of 32 vanilla products, characterization of multi-potent compounds and quantification of vanillin and ethylvanillin. <i>Journal of Chromatography A</i> , 2021, 1652, 462377.	1.8	9
153	icCluster software, an open-source in silico tool, and on-surface syntheses, an in situ concept, both exploited for signal highlighting in high-resolution mass spectrometry to ease structure elucidation in planar chromatography. <i>Journal of Chromatography A</i> , 2018, 1577, 101-108.	1.8	8
154	Rapid and Cost-Effective Determination of Acrylamide in Coffee by Planar Chromatography and Fluorescence Detection After Derivatization with Dansulfinic Acid. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 725-729.	0.7	7
155	Development of a new particulate 4- $\frac{1}{4}$ m adsorbent layer for ultrathin-layer chromatography (miniaturized chromatogram). <i>Journal of Chromatography A</i> , 2019, 1587, 247-255.	1.8	7
156	Imaging high-performance thin-layer chromatography as powerful tool to visualize metabolite profiles of eight <i>Bacillus</i> candidates upon cultivation and growth behavior. <i>Journal of Chromatography A</i> , 2021, 1640, 461929.	1.8	7
157	Effects of the Probiotic Activity of <i>Bacillus subtilis</i> DSM 29784 in Cultures and Feeding Stuff. <i>Journal of Agricultural and Food Chemistry</i> , 2021, 69, 11272-11281.	2.4	7
158	Performance of Electropun Polyacrylonitrile Nanofibrous Phases, Shown for the Separation of Water-Soluble Food Dyes via UTLC-Vis-ESI-MS. <i>Nanomaterials</i> , 2017, 7, 218.	1.9	6
159	All on one high-performance thin-layer chromatography plate: solvent-free nanomole-scaled on-surface synthesis, workup and online high-resolution mass spectrometry for elucidation of two new degradation products in an ifosfamide formulation. <i>Journal of Chromatography A</i> , 2018, 1572, 145-151.	1.8	6
160	New planar assay for streamlined detection and quantification of β -glucuronidase inhibitors applied to botanical extracts. <i>Analytica Chimica Acta: X</i> , 2020, 4, 100039.	2.8	6
161	Fast detection of apricot product frauds by added pumpkin via planar chromatography and chemometrics: Greenness assessment by analytical eco-scale. <i>Food Chemistry</i> , 2022, 374, 131714.	4.2	6
162	Baobab pulp authenticity and quality control by multi-imaging high-performance thin-layer chromatography. <i>Food Chemistry</i> , 2022, 390, 133108.	4.2	6

#	ARTICLE	IF	CITATIONS
163	Non-target bioactive compound profiles of coffee roasts and preparations. <i>Food Chemistry</i> , 2022, 391, 133263.	4.2	6
164	Application of AMD to the Determination of Crop Protection Agents in Drinking Water. Part III: Solid Phase Extraction and Affecting Factors Anwendung der AMD-Technik zur Bestimmung von Pflanzenbehandlungsmittel-Wirkstoffen im Trinkwasser. Teil III: Festphasenextraktion und ihre Einflussfaktoren. <i>Clean - Soil, Air, Water</i> , 1994, 22, 216-223.	0.8	5
165	New and Improved Liquid Chromatographic Methods for Food Analysis. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 689-690.	0.7	5
166	Challenges in quantitative high-performance thin-layer chromatography – Part 1: Influence of densitometric settings on the result. <i>Journal of Planar Chromatography - Modern TLC</i> , 2015, 28, 426-435.	0.6	5
167	CONFIRMATION OF DEOXYNIVALENOL PRESENCE IN CHILEAN WHEAT BY HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY-MASS SPECTROMETRY. <i>Journal of the Chilean Chemical Society</i> , 2017, 62, 3435-3437.	0.5	5
168	Nanomole-scaled high-throughput chemistry plus direct bioautography on the same chromatography plate for drug discovery. <i>Analytica Chimica Acta</i> , 2021, 1182, 338950.	2.6	5
169	Rapid planar chromatographic analysis of 25 water-soluble dyes used as food additives. <i>Journal of AOAC INTERNATIONAL</i> , 2009, 92, 745-56.	0.7	5
170	Evidence that Indo-Pacific bottlenose dolphins self-medicate with invertebrates in coral reefs. <i>IScience</i> , 2022, 25, 104271.	1.9	5
171	<i>Bacillus subtilis</i> spores in probiotic feed quantified via bacterial metabolite using planar chromatography. <i>Analytica Chimica Acta</i> , 2022, 1221, 340124.	2.6	5
172	QUANTIFICATION OF PYRITINOL IN SOLID PHARMACEUTICAL FORMULATION BY HIGH-PERFORMANCE THIN-LAYER CHROMATOGRAPHY-ULTRAVIOLET DETECTION AND SELECTIVITY EVALUATION BY MASS SPECTROMETRY. <i>Journal of Liquid Chromatography and Related Technologies</i> , 2010, 33, 957-971.	0.5	4
173	Effect-directed analysis of <i>Pimpinella saxifraga</i> L. root extract via HPTLC-UV/Vis/FLD-EDA-MS. <i>Journal of Planar Chromatography - Modern TLC</i> , 2018, 31, 79-86.	0.6	4
174	Phenolic fingerprints and quality assessment of three types of beer. <i>Journal of Planar Chromatography - Modern TLC</i> , 2019, 32, 191-196.	0.6	4
175	High-throughput enzyme inhibition screening of 44 Iranian medicinal plants via piezoelectric spraying of planar cholinesterase assays. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2021, 1184, 122956.	1.2	4
176	Puree and Juice of Thai Mango and Pineapple Analyzed by High-Performance Thin-Layer Chromatography Hyphenated with Effect-Directed Assays. <i>Molecules</i> , 2021, 26, 7683.	1.7	4
177	Profile comparison and valorization of Tunisian <i>Salvia aegyptiaca</i> and <i>S. verbenaca</i> aerial part extracts via hyphenated high-performance thin-layer chromatography. <i>Journal of Chromatography A</i> , 2022, 1673, 463057.	1.8	4
178	Planar Chromatography Mass Spectrometry. , 2014, , .		3
179	HPTLC Study of the Monosaccharide Composition of a Polysaccharide from <i>Apocynum venetum</i> Leaves. <i>Chemistry of Natural Compounds</i> , 2015, 51, 130-131.	0.2	2
180	Effect-Directed Profiling of Monofloral Honeys from Ethiopia by High-Performance Thin-Layer Chromatography and High-Resolution Mass Spectrometry. <i>Molecules</i> , 2022, 27, 3541.	1.7	2

#	ARTICLE	IF	CITATIONS
181	Applications in Food Analysis. , 2015, , 407-429.		1
182	Bioassays and Further Effect-Directed Detections in Chromatography. , 2018, , 261-261.		1
183	Reagent sequence for planar chromatographic analysis of eight sweeteners in food products approved in the European Union. Journal of Planar Chromatography - Modern TLC, 2022, 35, 273-279.	0.6	1
184	In Memoriam Dr.habil. Friedrich Geiss (1932–2015). Acta Chromatographica, 2015, 27, 189-194.	0.7	0
185	Modern direct bioautography for fast screening and characterization of active compounds in plant extracts used in cosmetics. Planta Medica, 2016, 81, S1-S381.	0.7	0
186	Quality Assessment of Apple and Grape Juices from Serbian and German Markets by Planar Chromatography–Chemometrics. Molecules, 2022, 27, 3933.	1.7	0