Stephen E Reichenbach

List of Publications by Year
in descending order

55 papers	2,048 citations	186265 28 h-index	243625 44 g-index
55 all docs	55 docs citations	55 times ranked	1244 citing authors

#	Article	IF	Citations
1	GCÃ—GC data visualization, processing, and analysis. Comprehensive Analytical Chemistry, 2022, , 185-229.	1.3	0
2	Exploring extra dimensions to capture saliva metabolite fingerprints from metabolically healthy and unhealthy obese patients by comprehensive two-dimensional gas chromatography featuring Tandem Ionization mass spectrometry. Analytical and Bioanalytical Chemistry, 2021, 413, 403-418.	3.7	14
3	Exploring the Extra-Virgin Olive Oil Volatilome by Adding Extra Dimensions to Comprehensive Two-Dimensional Gas Chromatography and Time-of-Flight Mass Spectrometry Featuring Tandem Ionization: Validation of Ripening Markers in Headspace Linearity Conditions. Journal of AOAC INTERNATIONAL, 2021, 104, 274-287.	1.5	9
4	An effective chromatographic fingerprinting workflow based on comprehensive two-dimensional gas chromatography â€“ Mass spectrometry to establish volatiles patterns discriminative of spoiled hazelnuts (Corylus avellana L.). Food Chemistry, 2021, 340, 128135.	8.2	23
5	Chromatographic fingerprinting by comprehensive two-dimensional chromatography: Fundamentals and tools. TrAC - Trends in Analytical Chemistry, 2021, 134, 116133.	11.4	42
6	Combined Untargeted and Targeted Fingerprinting by Comprehensive Two-Dimensional Gas Chromatography to Track Compositional Changes on Hazelnut Primary Metabolome during Roasting. Applied Sciences (Switzerland), 2021, 11, 525.	2.5	12
7	Untargeted approaches in food-omics: The potential of comprehensive two-dimensional gas chromatography/mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 135, 116162.	11.4	31
8	Comprehensive twoâ€dimensional gas chromatography as a boosting technology in foodâ€omic investigations. Journal of Separation Science, 2021, 44, 1592-1611.	2.5	22
9	Chemical fingerprinting strategies based on comprehensive two-dimensional gas chromatography combined with gas chromatography-olfactometry to capture the unique signature of Piemonte peppermint essential oil (Mentha x piperita var Italo-Mitcham). Journal of Chromatography A, 2021, 1645, 462101.	3.7	16
10	Chromatographic Fingerprinting Enables Effective Discrimination and Identitation of High-Quality Italian Extra-Virgin Olive Oils. Journal of Agricultural and Food Chemistry, 2021, 69, 8874-8889.	5.2	10
11	Delineating the extra-virgin olive oil aroma blueprint by multiple headspace solid phase microextraction and differential-flow modulated comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2021, 1650, 462232.	3.7	24
12	A streak detection approach for comprehensive two-dimensional gas chromatography based on image analysis. Neural Computing and Applications, 2020, 32, 649-663.	5.6	7
13	Adding extra-dimensions to hazelnuts primary metabolome fingerprinting by comprehensive two-dimensional gas chromatography combined with time-of-flight mass spectrometry featuring tandem ionization: Insights on the aroma potential. Journal of Chromatography A, 2020, 1614, 460739.	3.7	20
14	A step forward in the equivalence between thermal and differential-flow modulated comprehensive two-dimensional gas chromatography methods. Journal of Chromatography A, 2020, 1627, 461396.	3.7	14
15	Chromatographic Fingerprinting by Template Matching for Data Collected by Comprehensive Two-Dimensional Gas Chromatography. Journal of Visualized Experiments, 2020, , .	0.3	3
16	Characterization of odorant patterns by comprehensive two-dimensional gas chromatography: A challenge in omic studies. TrAC - Trends in Analytical Chemistry, 2019, 113, 364-378.	11.4	42
17	A Data-Challenge Case Study of Analyte Detection and Identification with Comprehensive Two-Dimensional Gas Chromatography with Mass Spectrometry (GCÃ—GC-MS). Separations, 2019, 6, 38.	2.4	7
18	Untargeted and Targeted Fingerprinting of Extra Virgin Olive Oil Volatiles by Comprehensive Two-Dimensional Gas Chromatography with Mass Spectrometry: Challenges in Long-Term Studies. Journal of Agricultural and Food Chemistry, 2019, 67, 5289-5302.	5.2	41

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19	Comprehensive two-dimensional gas chromatography coupled with time of flight mass spectrometry featuring tandem ionization: Challenges and opportunities for accurate fingerprinting studies. Journal of Chromatography A, 2019, 1597, 132-141.	3.7	30
20	Benchmarking machine learning methods for comprehensive chemical fingerprinting and pattern recognition. Journal of Chromatography A, 2019, 1595, 158-167.	3.7	46
21	Combined untargeted and targeted fingerprinting by comprehensive two-dimensional gas chromatography: revealing fructose-induced changes in mice urinary metabolic signatures. Analytical and Bioanalytical Chemistry, 2018, 410, 2723-2737.	3.7	23
22	Current Developments in Analyzing Food Volatiles by Multidimensional Gas Chromatographic Techniques. Journal of Agricultural and Food Chemistry, 2018, 66, 2226-2236.	5.2	28
23	Advanced fingerprinting of high-quality cocoa: Challenges in transferring methods from thermal to differential-flow modulated comprehensive two dimensional gas chromatography. Journal of Chromatography A, 2018, 1536, 122-136.	3.7	35
24	Pixel-by-pixel correction of retention time shifts in chromatograms from comprehensive two-dimensional gas chromatography coupled to high resolution time-of-flight mass spectrometry. Journal of Chromatography A, 2017, 1508, 121-129.	3.7	24
25	Method translation and full metadata transfer from thermal to differential flow modulated comprehensive two dimensional gas chromatography: Profiling of suspected fragrance allergens. Journal of Chromatography A, 2017, 1480, 70-82.	3.7	31
26	Comprehensive Chemical Fingerprinting of High-Quality Cocoa at Early Stages of Processing: Effectiveness of Combined Untargeted and Targeted Approaches for Classification and Discrimination. Journal of Agricultural and Food Chemistry, 2017, 65, 6329-6341.	5.2	58
27	Effectiveness of Global, Low-Degree Polynomial Transformations for GCxGC Data Alignment. Analytical Chemistry, 2016, 88, 10028-10035.	6.5	20
28	Combined untargeted and targeted fingerprinting with comprehensive two-dimensional chromatography for volatiles and ripening indicators in olive oil. Analytica Chimica Acta, 2016, 936, 245-258.	5.4	83
29	Parallel dual secondaryâ€columnâ€dual detection comprehensive twoâ€dimensional gas chromatography: a flexible and reliable analytical tool for essential oils quantitative profiling. Flavour and Fragrance Journal, 2015, 30, 366-380.	2.6	29
30	Comprehensive two-dimensional gas chromatography and food sensory properties: potential and challenges. Analytical and Bioanalytical Chemistry, 2015, 407, 169-191.	3.7	91
31	Alignment for Comprehensive Two-Dimensional Gas Chromatography with Dual Secondary Columns and Detectors. Analytical Chemistry, 2015, 87, 10056-10063.	6.5	33
32	Urinary metabolic fingerprinting of mice with diet-induced metabolic derangements by parallel dual secondary column-dual detection two-dimensional comprehensive gas chromatography. Journal of Chromatography A, 2014, 1361, 265-276.	3.7	26
33	Hydrotreating of fast pyrolysis oils from protein-rich pennycress seed presscake. Fuel, 2013, 111, 797-804.	6.4	29
34	Reliable Peak Selection for Multisample Analysis with Comprehensive Two-Dimensional Chromatography. Analytical Chemistry, 2013, 85, 4974-4981.	6.5	30
35	Features for non-targeted cross-sample analysis with comprehensive two-dimensional chromatography. Journal of Chromatography A, 2012, 1226, 140-148.	3.7	77
36	Performance evaluation of non-targeted peak-based cross-sample analysis for comprehensive two-dimensional gas chromatographyâ€“mass spectrometry data and application to processed hazelnut profiling. Journal of Chromatography A, 2012, 1243, 81-90.	3.7	47

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37	Informatics for cross-sample analysis with comprehensive two-dimensional gas chromatography and high-resolution mass spectrometry (GCxGCâ€“HRMS). Talanta, 2011, 83, 1279-1288.	5.5	81
38	Comparative analysis of peak-detection techniques for comprehensive two-dimensional chromatography. Journal of Chromatography A, 2011, 1218, 6792-6798.	3.7	29
39	Profiling food volatiles by comprehensive two-dimensional ga schromatography coupled with mass spectrometry: Advanced fingerprinting approaches for comparative analysis of the volatile fraction of roasted hazelnuts (Corylus avellana L.) from different origins. Journal of Chromatography A, 2010, 1217, 5848-5858.	3.7	100
40	Comprehensive feature analysis for sample classification with comprehensive twoâ€dimensional LC. Journal of Separation Science, 2010, 33, 1365-1374.	2.5	24
41	Targeted and Non-Targeted Approaches for Complex Natural Sample Profiling by GCxGC-qMS. Journal of Chromatographic Science, 2010, 48, 251-261.	1.4	71
42	Efficient encoding and rapid decoding for interactive visualization of large three-dimensional hyperspectral chemical images. Rapid Communications in Mass Spectrometry, 2009, 23, 1229-1233.	1.5	6
43	Smart Templates for peak pattern matching with comprehensive two-dimensional liquid chromatography. Journal of Chromatography A, 2009, 1216, 3458-3466.	3.7	71
44	Image interpolation by two-dimensional parametric cubic convolution. IEEE Transactions on Image Processing, 2006, 15, 1857-1870.	9.8	58
45	Tracking the Weathering of an Oil Spill with Comprehensive Two-Dimensional Gas Chromatography. Environmental Forensics, 2006, 7, 33-44.	2.6	107
46	Comparative visualization for comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2006, 1105, 51-58.	3.7	61
47	Spatially Constrained Wiener Filter with Markov Autocorrelation Modeling for Image Resolution Enhancement. , 2006, , .		2
48	Peak pattern variations related to comprehensive two-dimensional gas chromatography acquisition. Journal of Chromatography A, 2005, 1086, 165-170.	3.7	28
49	Computer language for identifying chemicals with comprehensive two-dimensional gas chromatography and mass spectrometry. Journal of Chromatography A, 2005, 1071, 263-269.	3.7	63
50	Information technologies for comprehensive two-dimensional gas chromatography. Chemometrics and Intelligent Laboratory Systems, 2004, 71, 107-120.	3.5	98
51	Image background removal in comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2003, 985, 47-56.	3.7	77
52	Two-dimensional cubic convolution. IEEE Transactions on Image Processing, 2003, 12, 857-865.	9.8	74
53	Effects of Noise on the Information Content of Remote Sensing Images. Geocarto International, 2003, 18, 15-26.	3.5	11
54	Dependence of Image Information Content on Gray-scale Resolution. Geocarto International, 2000, 15, 17-30.	3.5	5

#	Article	IF	Citations
55	Multiresponse imaging: Information and fidelity. Multidimensional Systems and Signal Processing, 1992, 3, 189-210.	2.6	5