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	Tracking the Weathering of an Oil Spill with Comprehensive Two-Dimensional Gas Chromatography. Environmental Forensics, 2006, 7, 33-44.	2.6	107
2	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
3	Information technologies for comprehensive two-dimensional gas chromatography. Chemometrics and Intelligent Laboratory Systems, 2004, 71, 107-120.	3.5	98
4	Comprehensive two-dimensional gas chromatography and food sensory properties: potential and challenges. Analytical and Bioanalytical Chemistry, 2015, 407, 169-191.	3.7	91
5	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
6	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
7	Image background removal in comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2003, 985, 47-56.	3.7	77
8	Features for non-targeted cross-sample analysis with comprehensive two-dimensional chromatography. Journal of Chromatography A, 2012, 1226, 140-148.	3.7	77
9	Two-dimensional cubic convolution. IEEE Transactions on Image Processing, 2003, 12, 857-865.	9.8	74
10	Smart Templates for peak pattern matching with comprehensive two-dimensional liquid chromatography. Journal of Chromatography A, 2009, 1216, 3458-3466.	3.7	71
11	Targeted and Non-Targeted Approaches for Complex Natural Sample Profiling by GCxGC-qMS. Journal of Chromatographic Science, 2010, 48, 251-261.	1.4	71
12	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
13	Comparative visualization for comprehensive two-dimensional gas chromatography. Journal of Chromatography A, 2006, 1105, 51-58.	3.7	61
14	Image interpolation by two-dimensional parametric cubic convolution. IEEE Transactions on Image Processing, 2006, 15, 1857-1870.	9.8	58
15	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
16	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
17	Benchmarking machine learning methods for comprehensive chemical fingerprinting and pattern recognition. Journal of Chromatography A, 2019, 1595, 158-167.	3.7	46
18	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

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19	Chromatographic fingerprinting by comprehensive two-dimensional chromatography: Fundamentals and tools. TrAC - Trends in Analytical Chemistry, 2021, 134, 116133.	11.4	42
20	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
21	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
22	Alignment for Comprehensive Two-Dimensional Gas Chromatography with Dual Secondary Columns and Detectors. Analytical Chemistry, 2015, 87, 10056-10063.	6.5	33
23	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
24	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
25	Reliable Peak Selection for Multisample Analysis with Comprehensive Two-Dimensional Chromatography. Analytical Chemistry, 2013, 85, 4974-4981.	6.5	30
26	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
27	Comparative analysis of peak-detection techniques for comprehensive two-dimensional chromatography. Journal of Chromatography A, 2011, 1218, 6792-6798.	3.7	29
28	Hydrotreating of fast pyrolysis oils from protein-rich pennycress seed presscake. Fuel, 2013, 111, 797-804.	6.4	29
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	Peak pattern variations related to comprehensive two-dimensional gas chromatography acquisition. Journal of Chromatography A, 2005, 1086, 165-170.	3.7	28
31	Current Developments in Analyzing Food Volatiles by Multidimensional Gas Chromatographic Techniques. Journal of Agricultural and Food Chemistry, 2018, 66, 2226-2236.	5.2	28
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	Comprehensive feature analysis for sample classification with comprehensive twoâ€dimensional LC. Journal of Separation Science, 2010, 33, 1365-1374.	2.5	24
34	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
35	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
36	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

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37	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
38	Comprehensive twoâ€dimensional gas chromatography as a boosting technology in foodâ€omic investigations. Journal of Separation Science, 2021, 44, 1592-1611.	2.5	22
39	Effectiveness of Global, Low-Degree Polynomial Transformations for GCxGC Data Alignment. Analytical Chemistry, 2016, 88, 10028-10035.	6.5	20
40	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
41	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
42	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
43	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
44	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
45	Effects of Noise on the Information Content of Remote Sensing Images. Geocarto International, 2003, 18, 15-26.	3.5	11
46	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
47	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
48	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
49	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
50	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
51	Multiresponse imaging: Information and fidelity. Multidimensional Systems and Signal Processing, 1992, 3, 189-210.	2.6	5
52	Dependence of Image Information Content on Gray-scale Resolution. Geocarto International, 2000, 15, 17-30.	3.5	5
53	Chromatographic Fingerprinting by Template Matching for Data Collected by Comprehensive Two-Dimensional Gas Chromatography. Journal of Visualized Experiments, 2020, , .	0.3	3
54	Spatially Constrained Wiener Filter with Markov Autocorrelation Modeling for Image Resolution Enhancement. , 2006, , .		2

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55	GCÃ—GC data visualization, processing, and analysis. Comprehensive Analytical Chemistry, 2022, , 185-229.	1.3	0