

Philip J. Marriott

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411
papers

14,125
citations

52
h-index

96
g-index

432
ext. papers

16,175
ext. citations

5.5
avg, IF

6.79
L-index

#	Paper	IF	Citations
411	Proposed minimum reporting standards for chemical analysis Chemical Analysis Working Group (CAWG) Metabolomics Standards Initiative (MSI). <i>Metabolomics</i> , 2007 , 3, 211-221	4.7	2472
410	A larger pool of ozone-forming carbon compounds in urban atmospheres. <i>Nature</i> , 2000 , 405, 778-81	50.4	292
409	Principles and applications of comprehensive two-dimensional gas chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2002 , 21, 573-583	14.6	224
408	Gas chromatographic technologies for the analysis of essential oils. <i>Journal of Chromatography A</i> , 2001 , 936, 1-22	4.5	204
407	Multidimensional gas chromatography. <i>TrAC - Trends in Analytical Chemistry</i> , 2012 , 34, 1-21	14.6	194
406	Characterisation of lavender essential oils by using gas chromatography-mass spectrometry with correlation of linear retention indices and comparison with comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2002 , 970, 225-34	4.5	179
405	A review of basic concepts in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatographic Science</i> , 2002 , 40, 276-91	1.4	164
404	Concepts and Preliminary Observations on the Triple-Dimensional Analysis of Complex Volatile Samples by Using GC x GC x TOFMS. <i>Analytical Chemistry</i> , 2001 , 73, 1336-1344	7.8	154
403	Longitudinally modulated cryogenic system. A generally applicable approach to solute trapping and mobilization in gas chromatography. <i>Analytical Chemistry</i> , 1997 , 69, 2582-8	7.8	152
402	Modulation ratio in comprehensive two-dimensional gas chromatography. <i>Analytical Chemistry</i> , 2006 , 78, 4578-87	7.8	139
401	Comprehensive two-dimensional gas chromatography with fast enantioseparation. <i>Analytical Chemistry</i> , 2002 , 74, 5426-30	7.8	100
400	Comparison of odor-active compounds in the spicy fraction of hop (<i>Humulus lupulus</i> L.) essential oil from four different varieties. <i>Journal of Agricultural and Food Chemistry</i> , 2007 , 55, 6252-61	5.7	99
399	Determination of polycyclic aromatic hydrocarbons in vegetable oils using solid-phase microextraction-comprehensive two-dimensional gas chromatography coupled with time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2007 , 1161, 284-91	4.5	94
398	Analysis of methoxypyrazines in wine using headspace solid phase microextraction with isotope dilution and comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2005 , 28, 1075-82	3.4	93
397	Comprehensive Two-Dimensional Gas Chromatography Using a Modulating Cryogenic Trap. <i>Journal of High Resolution Chromatography</i> , 1998 , 21, 620-622		90
396	Applications of comprehensive two-dimensional gas chromatography to the characterization of petrochemical and related samples. <i>Journal of Chromatography A</i> , 2006 , 1105, 39-50	4.5	88
395	Identification of character-impact odorants in coriander and wild coriander leaves using gas chromatography-olfactometry (GCO) and comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry (GC x GC-TOFMS). <i>Journal of Separation Science</i> , 2005 , 28, 1061-74	3.4	87

394	Orthogonality considerations in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2005 , 1071, 47-53	4.5	86
393	Design and Implementation of Comprehensive Gas Chromatography with Cryogenic Modulation. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 245-252		86
392	Sorghum Grain: From Genotype, Nutrition, and Phenolic Profile to Its Health Benefits and Food Applications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019 , 18, 2025-2046	16.4	85
391	Identification of potent odourants in wine and brewed coffee using gas chromatography-olfactometry and comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2011 , 1218, 7487-98	4.5	85
390	Analysis of roasted coffee bean volatiles by using comprehensive two-dimensional gas chromatography-time-of-flight mass spectrometry. <i>Journal of Chromatography A</i> , 2004 , 1054, 57-65	4.5	80
389	Use of comprehensive two-dimensional gas chromatography/time-of-flight mass spectrometry for the characterization of biodegradation and unresolved complex mixtures in petroleum. <i>Geochimica Et Cosmochimica Acta</i> , 2010 , 74, 6468-6484	5.5	78
388	Homochiral MOF-Polymer Mixed Matrix Membranes for Efficient Separation of Chiral Molecules. <i>Angewandte Chemie - International Edition</i> , 2019 , 58, 16928-16935	16.4	77
387	Development of an algorithm for peak detection in comprehensive two-dimensional chromatography. <i>Journal of Chromatography A</i> , 2007 , 1156, 14-24	4.5	74
386	Comprehensive two-dimensional gas chromatography/mass spectrometric analysis of pepper volatiles. <i>Rapid Communications in Mass Spectrometry</i> , 2006 , 20, 2823-36	2.2	74
385	High resolution essential oil analysis by using comprehensive gas chromatographic methodology. <i>Flavour and Fragrance Journal</i> , 2000 , 15, 225-239	2.5	72
384	Hempseed in food industry: Nutritional value, health benefits, and industrial applications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 282-308	16.4	71
383	Comprehensive two-dimensional gas chromatography-mass spectrometry analysis of Pelargonium graveolens essential oil using rapid scanning quadrupole mass spectrometry. <i>Analyst, The</i> , 2003 , 128, 879	5	69
382	Application of comprehensive two-dimensional gas chromatography (GC/GC) to the enantioselective analysis of essential oils. <i>Journal of Separation Science</i> , 2001 , 24, 823-830	3.4	69
381	The combination of gas chromatography-olfactometry and multidimensional gas chromatography for the characterisation of essential oils. <i>Journal of Chromatography A</i> , 2007 , 1150, 70-7	4.5	68
380	Comprehensive two-dimensional gas chromatography with time-of-flight mass spectrometry (GC x GC-TOFMS) for drug screening and confirmation. <i>Forensic Science International</i> , 2004 , 143, 87-101	2.6	68
379	Quantification in comprehensive two-dimensional gas chromatography and a model of quantification based on selected summed modulated peaks. <i>Journal of Chromatography A</i> , 2008 , 1184, 323-40	4.5	66
378	Characterisation of capillary ionic liquid columns for gas chromatography-mass spectrometry analysis of fatty acid methyl esters. <i>Analytica Chimica Acta</i> , 2013 , 803, 166-73	6.6	65
377	A review of environmental toxicant analysis by using multidimensional gas chromatography and comprehensive GC. <i>Clinica Chimica Acta</i> , 2003 , 328, 1-19	6.2	64

376	Comprehensive two-dimensional gas chromatography (GC/C) and GC/C-quadrupole MS analysis of Asian and American ginseng. <i>Journal of Separation Science</i> , 2003 , 26, 1185-1192	3.4	62
375	Analysis of strawberry volatiles using comprehensive two-dimensional gas chromatography with headspace solid-phase microextraction. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2005 , 817, 97-107	3.2	62
374	Application of extrusion technology in plant food processing byproducts: An overview. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 218-246	16.4	60
373	Comprehensive two-dimensional gas chromatography for fingerprint pattern recognition in cachañ production. <i>Talanta</i> , 2008 , 74, 793-9	6.2	60
372	Biochemical monitoring of black raspberry (<i>Rubus coreanus</i> Miquel) fruits according to maturation stage by ¹ H NMR using multiple solvent systems. <i>Food Research International</i> , 2011 , 44, 1977-1987	7	59
371	Metabolic profiling of infant urine using comprehensive two-dimensional gas chromatography: Application to the diagnosis of organic acidurias and biomarker discovery. <i>Journal of Chromatography A</i> , 2010 , 1217, 104-11	4.5	56
370	Amino acid analysis by using comprehensive two-dimensional gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2005 , 382, 836-47	4.4	56
369	Polybrominated diphenyl ethers and polybrominated biphenyls in Australian sewage sludge. <i>Chemosphere</i> , 2008 , 73, 980-9	8.4	55
368	Comparison of column phase configurations for comprehensive two dimensional gas chromatographic analysis of crude oil and bitumen. <i>Organic Geochemistry</i> , 2006 , 37, 1190-1194	3.1	54
367	Two-dimensional retention indices improve component identification in comprehensive two-dimensional gas chromatography of saffron. <i>Analytical Chemistry</i> , 2015 , 87, 5753-61	7.8	53
366	Generating multiple independent retention index data in dual-secondary column comprehensive two-dimensional gas chromatography. <i>Analytical Chemistry</i> , 2006 , 78, 8089-97	7.8	53
365	Molecular structure retention relationships in comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2004 , 27, 1273-84	3.4	53
364	Characterization and Comparison of Tea Tree and Lavender Oils by Using Comprehensive Gas Chromatography. <i>Journal of High Resolution Chromatography</i> , 2000 , 23, 554-560		53
363	Multidimensional gas chromatography in food analysis. <i>TrAC - Trends in Analytical Chemistry</i> , 2017 , 96, 124-137	14.6	52
362	Modulation of the human gut microbiota by phenolics and phenolic fiber-rich foods. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 1268-1298	16.4	52
361	Application of comprehensive two-dimensional gas chromatography to drugs analysis in doping control. <i>Journal of Chromatography A</i> , 2003 , 1000, 109-24	4.5	52
360	High Speed Cryogenic Modulation IA Technology Enabling Comprehensive Multidimensional Gas Chromatography. <i>Journal of High Resolution Chromatography</i> , 1999 , 22, 235-238		52
359	Characterization of Nitrogen-Containing Compounds in Heavy Gas Oil Petroleum Fractions Using Comprehensive Two-Dimensional Gas Chromatography Coupled to Time-of-Flight Mass Spectrometry. <i>Energy & Fuels</i> , 2010 , 24, 3572-3580	4.1	51

358	Multidimensional gas chromatography beyond simple volatiles separation. <i>Chemical Communications</i> , 2014 , 50, 8819-33	5.8	50
357	Investigating the distribution of polybrominated diphenyl ethers through an Australian wastewater treatment plant. <i>Science of the Total Environment</i> , 2010 , 408, 1604-11	10.2	50
356	Retention time reproducibility in comprehensive two-dimensional gas chromatography using cryogenic modulation an intralaboratory study. <i>Journal of Chromatography A</i> , 2002 , 968, 161-70	4.5	50
355	Pressurised liquid extraction--comprehensive two-dimensional gas chromatography for fast-screening of polycyclic aromatic hydrocarbons in soil. <i>Journal of Chromatography A</i> , 2003 , 1019, 221-32	4.5	50
354	Electrospray Mass Spectrometric Analysis and Photocatalytic Degradation of Polyethoxylate Surfactants Used in Wool Scouring. <i>Analytical Chemistry</i> , 1994 , 66, 3394-3399	7.8	50
353	Comprehensive two-dimensional gas chromatography-mass spectrometry analysis and comparison of volatile organic compounds in Brazilian cachaça and selected spirits. <i>Food Chemistry</i> , 2009 , 112, 747-755	8.5	49
352	Opportunities for ultra-high resolution analysis of essential oils using comprehensive two-dimensional gas chromatography: a review. <i>Flavour and Fragrance Journal</i> , 2003 , 18, 179-191	2.5	49
351	Fast comprehensive two-dimensional gas chromatography method for fatty acid methyl ester separation and quantification using dual ionic liquid columns. <i>Journal of Chromatography A</i> , 2013 , 1312, 118-23	4.5	48
350	Retention indices in comprehensive two-dimensional gas chromatography. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2351-60	4.4	48
349	Comparative study of Eucalyptus dunnii volatile oil composition using retention indices and comprehensive two-dimensional gas chromatography coupled to time-of-flight and quadrupole mass spectrometry. <i>Journal of Chromatography A</i> , 2008 , 1200, 34-42	4.5	48
348	Application of comprehensive two-dimensional gas chromatography with nitrogen-selective detection for the analysis of fungicide residues in vegetable samples. <i>Journal of Chromatography A</i> , 2006 , 1131, 203-14	4.5	48
347	Quantitation of suspected allergens in fragrances (Part I): evaluation of comprehensive two-dimensional gas chromatography for quality control. <i>Flavour and Fragrance Journal</i> , 2004 , 19, 91-98	2.5	48
346	Positional and geometric isomer separation of FAME by comprehensive 2-D GC. <i>Lipids</i> , 2002 , 37, 715-24	1.6	48
345	Enantiomeric separation of propranolol and selected metabolites by using capillary electrophoresis with hydroxypropyl-beta-cyclodextrin as chiral selector. <i>Journal of Chromatography A</i> , 1998 , 793, 357-64	4.5	47
344	Method for small-molecule discovery based on microscale-preparative multidimensional gas chromatography isolation with nuclear magnetic resonance spectroscopy. <i>Analytical Chemistry</i> , 2008 , 80, 6293-9	7.8	47
343	Qualitative and quantitative study of nitrogen-containing compounds in heavy gas oil using comprehensive two-dimensional gas chromatography with nitrogen phosphorus detection. <i>Journal of Separation Science</i> , 2007 , 30, 3223-32	3.4	47
342	Application of integrated comprehensive/multidimensional gas chromatography with mass spectrometry and olfactometry for aroma analysis in wine and coffee. <i>Food Chemistry</i> , 2015 , 185, 355-61	8.5	46
341	Quality and antioxidant properties of instant noodles enhanced with common buckwheat flour. <i>Journal of Cereal Science</i> , 2013 , 57, 281-287	3.8	46

- 340 Enantiomeric separation and quantification of ephedrine-type alkaloids in herbal materials by comprehensive two-dimensional gas chromatography. *Journal of Chromatography A*, **2006**, 1112, 361-8 4.5 46
- 339 Comparison of Thermal Sweeper and Cryogenic Modulator Technology for Comprehensive Gas Chromatography. *Journal of High Resolution Chromatography*, **2000**, 23, 253-258 46
- 338 Analysis of roasted coffee bean volatiles by using comprehensive two-dimensional gas chromatography–time-of-flight mass spectrometry **2004**, 1054, 57-57 46
- 337 Metal-organic frameworks as stationary phases for mixed-mode separation applications. *Chemical Communications*, **2014**, 50, 3735-7 5.8 45
- 336 Retention correlation maps in comprehensive two-dimensional gas chromatography. *Journal of Separation Science*, **2002**, 25, 831-838 3.4 45
- 335 Comprehensive Two-Dimensional Gas Chromatography Advances in Technology and Applications: Biennial Update. *Analytical Chemistry*, **2020**, 92, 85-104 7.8 45
- 334 Fatty Acid-Binding Protein 5 at the Blood-Brain Barrier Regulates Endogenous Brain Docosahexaenoic Acid Levels and Cognitive Function. *Journal of Neuroscience*, **2016**, 36, 11755-11767 6.6 44
- 333 Within-Vineyard, Within-Vine, and Within-Bunch Variability of the Rotundone Concentration in Berries of *Vitis vinifera* L. cv. Shiraz. *Journal of Agricultural and Food Chemistry*, **2015**, 63, 4276-83 5.7 43
- 332 From the Vineyard to the Winery: How Microbial Ecology Drives Regional Distinctiveness of Wine. *Frontiers in Microbiology*, **2019**, 10, 2679 5.7 43
- 331 Novel hybrid comprehensive 2D-multidimensional gas chromatography for precise, high-resolution characterization of multicomponent samples. *Analytical Chemistry*, **2012**, 84, 4837-43 7.8 43
- 330 Cryogenic solute manipulation in gas chromatography – the longitudinal modulation approach. *TrAC - Trends in Analytical Chemistry*, **1999**, 18, 114-125 14.6 43
- 329 Development of a switchable multidimensional/comprehensive two-dimensional gas chromatographic analytical system. *Journal of Chromatography A*, **2010**, 1217, 1522-9 4.5 42
- 328 Comprehensive two-dimensional gas chromatography with flame ionization and time-of-flight mass spectrometry detection: qualitative and quantitative analysis of West Australian sandalwood oil. *Journal of Chromatographic Science*, **2004**, 42, 417-22 1.4 42
- 327 Examination of a new chromatographic function, based on an exponential resolution term, for use in optimization strategies: application to capillary gas chromatography separation of phenols. *Journal of Chromatography A*, **1996**, 755, 235-243 4.5 42
- 326 Enhancement of Signal-to-Noise Ratios in Capillary Gas Chromatography by Using a Longitudinally Modulated Cryogenic System. *Journal of High Resolution Chromatography*, **1998**, 21, 32-38 4.1
- 325 Targeted multidimensional gas chromatography for the quantitative analysis of suspected allergens in fragrance products. *Journal of Chromatography A*, **2006**, 1130, 122-9 4.5 4.1
- 324 Solid-phase micro-extraction–comprehensive two-dimensional gas chromatography of ginger (*Zingiber officinale*) volatiles. *Flavour and Fragrance Journal*, **2003**, 18, 5-12 2.5 4.1
- 323 Headspace solid-phase microextraction–comprehensive two-dimensional gas chromatography of wound induced plant volatile organic compound emissions. *Analyst, The*, **2002**, 127, 1601-7 5 4.1

322	Time-resolved cryogenic modulation for targeted multidimensional capillary gas chromatography analysis. <i>Journal of Chromatography A</i> , 2000 , 892, 15-28	4.5	41
321	Thermally sensitive behavior explanation for unusual orthogonality observed in comprehensive two-dimensional gas chromatography comprising a single ionic liquid stationary phase. <i>Analytical Chemistry</i> , 2015 , 87, 538-44	7.8	40
320	Comprehensive two-dimensional liquid chromatography for polyphenol analysis in foodstuffs. <i>Journal of Separation Science</i> , 2017 , 40, 7-24	3.4	40
319	Headspace solid-phase microextraction combined with comprehensive two-dimensional gas chromatography time-of-flight mass spectrometry for the determination of volatile compounds from marine salt. <i>Journal of Chromatography A</i> , 2010 , 1217, 5511-21	4.5	40
318	Detector technologies for comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2006 , 29, 1909-21	3.4	40
317	Investigating the levels and trends of organochlorine pesticides and polychlorinated biphenyl in sewage sludge. <i>Environment International</i> , 2010 , 36, 323-329	12.9	39
316	Determination of volatile compounds in Brazilian distilled cachaça by using comprehensive two-dimensional gas chromatography and effects of production pathways. <i>Journal of Chromatography A</i> , 2009 , 1216, 2881-90	4.5	39
315	Dual-injection system with multiple injections for determining bidimensional retention indexes in comprehensive two-dimensional gas chromatography. <i>Analytical Chemistry</i> , 2008 , 80, 760-8	7.8	39
314	Application of headspace solid-phase microextraction (HS-SPME) and comprehensive two-dimensional gas chromatography (GC x GC) for the chemical profiling of volatile oils in complex herbal mixtures. <i>Journal of Separation Science</i> , 2004 , 27, 451-8	3.4	39
313	Influence of chromatographic conditions on separation in comprehensive gas chromatography. <i>Journal of Chromatography A</i> , 2002 , 962, 135-52	4.5	39
312	Metabolism of bisphenol A in zebrafish (<i>Danio rerio</i>) and rainbow trout (<i>Oncorhynchus mykiss</i>) in relation to estrogenic response. <i>Comparative Biochemistry and Physiology Part - C: Toxicology and Pharmacology</i> , 2003 , 135, 169-77	3.2	39
311	Targeted multidimensional gas chromatography using microswitching and cryogenic modulation. <i>Analytical Chemistry</i> , 2003 , 75, 5532-8	7.8	39
310	New operational modes for multidimensional and comprehensive gas chromatography by using cryogenic modulation. <i>Journal of Chromatography A</i> , 2000 , 866, 203-12	4.5	39
309	Evaluation of New Stationary Phases for the Separation of Fatty Acid Methyl Esters. <i>Chromatographia</i> , 2006 , 63, S61-S66	2.1	38
308	Methods for generating second dimension retention index data in comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2003 , 1019, 3-14	4.5	38
307	Review of the role and methodology of high resolution approaches in aroma analysis. <i>Analytica Chimica Acta</i> , 2015 , 854, 1-12	6.6	37
306	Chemometrics in comprehensive multidimensional separations. <i>Analytical and Bioanalytical Chemistry</i> , 2011 , 401, 2373-86	4.4	37
305	Investigation of folic acid stability in fortified instant noodles by use of capillary electrophoresis and reversed-phase high performance liquid chromatography. <i>Journal of Chromatography A</i> , 2008 , 1213, 93-9	4.5	37

304	Characterization of biodiesel and biodiesel blends using comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2008 , 31, 2640-9	3.4	36
303	Variation of zeta-potential with temperature in fused-silica capillaries used for capillary electrophoresis. <i>Electrophoresis</i> , 2006 , 27, 672-6	3.6	36
302	Effects of pressure drop on absolute retention matching in comprehensive two-dimensional gas chromatography. <i>Journal of Separation Science</i> , 2004 , 27, 504-12	3.4	36
301	Nitric Oxide Metabolites in Normal Human Pregnancy and Preeclampsia. <i>Hypertension in Pregnancy</i> , 1995 , 14, 339-349	2	36
300	Interpretation of comprehensive two-dimensional gas chromatography data using advanced chemometrics. <i>TrAC - Trends in Analytical Chemistry</i> , 2014 , 53, 150-166	14.6	35
299	One-pot microwave derivatization of target compounds relevant to metabolomics with comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2010 , 878, 1761-70	3.2	35
298	Comprehensive two-dimensional gas chromatography-quadrupole mass spectrometric analysis of drugs. <i>Journal of Chromatography A</i> , 2004 , 1058, 223-232	4.5	35
297	Liquid-phase enantioselective chromatographic resolution using interpenetrated, homochiral framework materials. <i>Chemistry - A European Journal</i> , 2014 , 20, 11308-12	4.8	34
296	Comprehensive two-dimensional gas chromatography for the separation of fatty acids in milk. <i>European Journal of Lipid Science and Technology</i> , 2007 , 109, 757-766	3	34
295	Identification of odour-active compounds of pasteurised orange juice using multidimensional gas chromatography techniques. <i>Food Research International</i> , 2015 , 75, 281-288	7	33
294	Combined effects of gamma-irradiation and modified atmosphere packaging on quality of some spices. <i>Food Chemistry</i> , 2014 , 154, 255-61	8.5	33
293	Advances in gas chromatographic methods for the identification of biomarkers in cancer. <i>Journal of Cancer</i> , 2012 , 3, 404-20	4.5	33
292	System design for integrated comprehensive and multidimensional gas chromatography with mass spectrometry and olfactometry. <i>Analytical Chemistry</i> , 2012 , 84, 9154-62	7.8	33
291	Emerging opportunities for flavor analysis through hyphenated gas chromatography. <i>Journal of Agricultural and Food Chemistry</i> , 2009 , 57, 9962-71	5.7	33
290	Optimization of the capillary electrophoresis separation of ranitidine and related compounds. <i>Journal of Chromatography A</i> , 1997 , 766, 245-254	4.5	33
289	Dioxin-like compounds in Australian sewage sludge--review and national survey. <i>Chemosphere</i> , 2008 , 72, 1215-28	8.4	33
288	Shape selectivity: A key factor in comprehensive two-dimensional gas chromatographic analysis of toxic PCBs. <i>Journal of Separation Science</i> , 2001 , 13, 306-311		33
287	Pesticides Analysis: Advantages of Increased Dimensionality in Gas Chromatography and Mass Spectrometry. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 2135-2173	11.1	32

286	Multiple component isolation in preparative multidimensional gas chromatography with characterisation by mass spectrometry and nuclear magnetic resonance spectroscopy. <i>Journal of Chromatography A</i> , 2009 , 1216, 5740-7	4.5	32
285	Chemometric analysis of comprehensive two-dimensional gas chromatography data using cryogenic modulation. <i>Analytica Chimica Acta</i> , 2003 , 500, 211-222	6.6	32
284	Time-resolved cryogenic modulation reveals isomer interconversion profiles in dynamic chromatography. <i>Journal of Chromatography A</i> , 2001 , 919, 115-26	4.5	32
283	Terpene evolution during the development of <i>Vitis vinifera</i> L. cv. Shiraz grapes. <i>Food Chemistry</i> , 2016 , 204, 463-474	8.5	32
282	3-Deoxyanthocyanidin Colorant: Nature, Health, Synthesis, and Food Applications. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2019 , 18, 1533-1549	16.4	31
281	Comprehensive two-dimensional gas chromatography with flame photometric detection applied to organophosphorus pesticides in food matrices. <i>Microchemical Journal</i> , 2013 , 111, 25-31	4.8	31
280	GC for flavonoids analysis: Past, current, and prospective trends. <i>Journal of Separation Science</i> , 2013 , 36, 20-36	3.4	31
279	Characterization of tetra-aryl benzene isomers by using preparative gas chromatography with mass spectrometry, nuclear magnetic resonance spectroscopy, and X-ray crystallographic methods. <i>Analytical Chemistry</i> , 2010 , 82, 4501-9	7.8	31
278	Application of comprehensive two-dimensional gas chromatography to sterols analysis. <i>Journal of Chromatography A</i> , 2008 , 1214, 134-42	4.5	31
277	Application of microscale-preparative multidimensional gas chromatography with nuclear magnetic resonance spectroscopy for identification of pure methylnaphthalenes from crude oils. <i>Journal of Chromatography A</i> , 2008 , 1215, 168-76	4.5	31
276	Fast comprehensive two-dimensional gas chromatography with cryogenic modulation. <i>Analytical Chemistry</i> , 2007 , 79, 4448-54	7.8	31
275	Benchmarking of candidate detectors for multiresidue analysis of pesticides by comprehensive two-dimensional gas chromatography. <i>Journal of Chromatography A</i> , 2013 , 1311, 140-8	4.5	30
274	Development of a resolution metric for comprehensive two-dimensional chromatography. <i>Journal of Chromatography A</i> , 2007 , 1146, 232-41	4.5	30
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272	Temperature profiles and heat dissipation in capillary electrophoresis. <i>Analytical Chemistry</i> , 2006 , 78, 2684-93	7.8	30
271	Sesquiterpenes in grapes and wines: Occurrence, biosynthesis, functionality, and influence of winemaking processes. <i>Comprehensive Reviews in Food Science and Food Safety</i> , 2020 , 19, 247-281	16.4	30
270	The microfluidic Deans switch: 50 years of progress, innovation and application. <i>TrAC - Trends in Analytical Chemistry</i> , 2016 , 82, 35-54	14.6	30
269	Multidimensional gas chromatography of oxidative degradation products in algae-derived fuel oil samples using narrow heartcuts and rapid cycle times. <i>Journal of Chromatography A</i> , 2012 , 1224, 89-96	4.5	29

268	Integrated multidimensional and comprehensive 2D GC analysis of fatty acid methyl esters. <i>Journal of Separation Science</i> , 2013 , 36, 878-85	3.4	29
267	Solid-phase microextraction on fibre derivatization with comprehensive two dimensional gas chromatography analysis of trans-resveratrol in wine. <i>Chromatographia</i> , 2003 , 57, S349-S353	2.1	29
266	Comprehensive two-dimensional gas chromatography, retention indices and time-of-flight mass spectra of flavonoids and chalcones. <i>Journal of Chromatography A</i> , 2010 , 1217, 8317-26	4.5	28
265	Enantioselective gas chromatographic analysis of monoterpenes in essential oils of the family Myrtaceae. <i>Flavour and Fragrance Journal</i> , 2004 , 19, 582-585	2.5	28
264	Ultra-fast essential oil characterization by capillary GC on a 50 microm ID column. <i>Journal of Separation Science</i> , 2004 , 27, 699-702	3.4	28
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260	Isomerization processes observed for chromium compounds by using the gas chromatographic reactor. <i>Inorganic Chemistry</i> , 1986 , 25, 3680-3683	5.1	28
259	A modeling approach for orthogonality of comprehensive two-dimensional separations. <i>Analytical Chemistry</i> , 2013 , 85, 6356-63	7.8	27
258	Observations on comprehensive two dimensional gas chromatography coupled with flame photometric detection for sulfur- and phosphorus-containing compounds. <i>Analytical Methods</i> , 2010 , 2, 243	3.2	27
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