# Peter De B Harrington

List of Publications by Year
in descending order



| 183 | 4,217 | 101496 | 182361 |
|---|---|---|---|
| papers | citations | 36 h-index | 51 g-index |

| 186 | 186 | 186 | 3711 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Analysis of varianceâ€“principal component analysis: A soft tool for proteomic discovery. Analytica Chimica Acta, 2005, 544, 118-127. | 2.6 | 147 |
| 2 | Rapid screening of precursor and degradation products of chemical warfare agents in soil by solid-phase microextraction ion mobility spectrometry (SPMEâ€“IMS). Analytica Chimica Acta, 2005, 545, 13-20. | 2.6 | 115 |
| 3 | Pharmaceutical applications of ion mobility spectrometry. TrAC - Trends in Analytical Chemistry, 2008, 27, 44-53. | 5.8 | 113 |
| 4 | Direct detection of trimethylamine in meat food products using ion mobility spectrometry. Talanta, 2006, 68, 629-635. | 2.9 | 107 |
| 5 | Statistical validation of classification and calibration models using bootstrapped Latin partitions. TrAC - Trends in Analytical Chemistry, 2006, 25, 1112-1124. | 5.8 | 90 |
| 6 | Direct analysis of bacterial fatty acids by Curie-point pyrolysis tandem mass spectrometry. Analytical Chemistry, 1990, 62, 1465-1472. | 3.2 | 89 |
| 7 | Fuzzy multivariate rule-building expert systems: Minimal neural networks. Journal of Chemometrics, 1991, 5, 467-486. | 0.7 | 78 |
| 8 | Immunomagnetic Isolation of EnterohemorrhagicEscherichia coliO157:H7 from Ground Beef and Identification by Matrix-Assisted Laser Desorption/Ionization Time-of-Flight Mass Spectrometry and Database Searches. Analytical Chemistry, 2005, 77, 5258-5267. | 3.2 | 78 |
| 9 | Determination of residual enrofloxacin in food samples by a sensitive method of chemiluminescence enzyme immunoassay. Food Chemistry, 2014, 149, 71-75. | 4.2 | 67 |
| 10 | Different Discrete Wavelet Transforms Applied to Denoising Analytical Data. Journal of Chemical Information and Computer Sciences, 1998, 38, 1161-1170. | 2.8 | 60 |
| 11 | Detection of Methamphetamine in the Presence of Nicotine Using In Situ Chemical Derivatization and Ion Mobility Spectrometry. Analytical Chemistry, 2004, 76, 985-991. | 3.2 | 60 |
| 12 | Automated Principal Component-Based Orthogonal Signal Correction Applied to Fused Near Infraredâ^Mid-Infrared Spectra of French Olive Oils. Analytical Chemistry, 2009, 81, 7160-7169. | 3.2 | 59 |
| 13 | Two-dimensional correlation analysis. Chemometrics and Intelligent Laboratory Systems, 2000, 50, 149-174. | 1.8 | 57 |
| 14 | Forensic Application of Gas Chromatographyâ€“Differential Mobility Spectrometry with Two-Way Classification of Ignitable Liquids from Fire Debris. Analytical Chemistry, 2007, 79, 6752-6759. | 3.2 | 57 |
| 15 | A sensitive electrochemical chlorophenols sensor based on nanocomposite of ZnSe quantum dots and cetyltrimethylammonium bromide. Analytica Chimica Acta, 2013, 804, 76-83. | 2.6 | 57 |
| 16 | A novel method for the study of molecular interaction by using microscale thermophoresis. Talanta, 2015, 132, 894-901. | 2.9 | 53 |
| 17 | Application of terahertz time-domain spectroscopy combined with chemometrics to quantitative analysis of imidacloprid in rice samples. Journal of Quantitative Spectroscopy and Radiative Transfer, 2015, 167, 1-9. | 1.1 | 52 |
| 18 | Self-Configuring Radial Basis Function Neural Networks for Chemical Pattern Recognition. Journal of Chemical Information and Computer Sciences, 1999, 39, 1049-1056. | 2.8 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Synthesis of poly(sodium 4-styrenesulfonate) functionalized graphene/cetyltrimethylammonium bromide (CTAB) nanocomposite and its application in electrochemical oxidation of 2,4-dichlorophenol. Electrochimica Acta, 2014, 125, 1-8. | 2.6 | 49 |
| 20 | Supersensitive electrochemical sensor for the fast determination of rutin in pharmaceuticals and biological samples based on poly(diallyldimethylammonium chloride)-functionalized graphene. Journal of Electroanalytical Chemistry, 2014, 732, 17-24. | 1.9 | 47 |
| 21 | Rapid multivariate curve resolution applied to identification of explosives by ion mobility spectrometry. Analytica Chimica Acta, 2001, 434, 269-282. | 2.6 | 46 |
| 22 | Detection of cocaine and its metabolites in urine using solid phase extraction-ion mobility spectrometry with alternating least squares. Forensic Science International, 2009, 189, 54-59. | 1.3 | 46 |
| 23 | Biomarker Profiling and Reproducibility Study of MALDI-MS Measurements of Escherichia coli by Analysis of Varianceâ˜Principal Component Analysis. Analytical Chemistry, 2008, 80, 1474-1481. | 3.2 | 45 |
| 24 | Multivariate rule building expert system. Analytical Chemistry, 1990, 62, 729-734. | 3.2 | 42 |
| 25 | Screening GC-MS data for carbamate pesticides with temperature-constrainedâ€“cascade correlation neural networks. Analytica Chimica Acta, 2000, 408, 1-12. | 2.6 | 42 |
| 26 | Proteomic analysis of amniotic fluids using analysis of variance-principal component analysis and fuzzy rule-building expert systems applied to matrix-assisted laser desorption/ionization mass spectrometry. Chemometrics and Intelligent Laboratory Systems, 2006, 82, 283-293. | 1.8 | 42 |
| 27 | Sensitive voltammetric sensor based on Isopropanolâ€“Nafionâ€“PSSâ€“GR nanocomposite modified glassy carbon electrode for determination of Clenbuterol in pork. Food Chemistry, 2014, 164, 113-118. | 4.2 | 41 |
| 28 | Nontargeted Metabolomic Study on Variation of Phenolics in Different Cranberry Cultivars Using UPLC-IM â€“ HRMS. Journal of Agricultural and Food Chemistry, 2018, 66, 12206-12216. | 2.4 | 40 |
| 29 | Trace Explosive Detection in Aqueous Samples by Solid-Phase Extraction Ion Mobility Spectrometry (SPE-IMS). Applied Spectroscopy, 2003, 57, 223-232. | 1.2 | 39 |
| 30 | Fuzzy Rule-Building Expert System Classification of Fuel Using Solid-Phase Microextraction Two-Way Gas Chromatography Differential Mobility Spectrometric Data. Analytical Chemistry, 2007, 79, 1485-1491. | 3.2 | 39 |
| 31 | High-selective and sensitive voltammetric sensor for butylated hydroxyanisole based on AuNPsâ€“PVPâ€“graphene nanocomposites. Talanta, 2015, 138, 169-175. | 2.9 | 39 |
| 32 | Chemometric applications in metabolomic studies using chromatography-mass spectrometry. TrAC - Trends in Analytical Chemistry, 2021, 135, 116165. | 5.8 | 39 |
| 33 | Terahertz time-domain spectroscopy combined with support vector machines and partial least squares-discriminant analysis applied for the diagnosis of cervical carcinoma. Analytical Methods, 2015, 7, 2333-2338. | 1.3 | 38 |
| 34 | Baseline Correction Method Using an Orthogonal Basis for Gas Chromatography/Mass Spectrometry Data. Analytical Chemistry, 2011, 83, 7464-7471. | 3.2 | 37 |
| 35 | Authentication of Organically and Conventionally Grown Basils by Gas Chromatography/Mass Spectrometry Chemical Profiles. Analytical Chemistry, 2013, 85, 2945-2953. | 3.2 | 37 |
| 36 | Diagnosis of patients with chronic kidney disease by using two fuzzy classifiers. Chemometrics and Intelligent Laboratory Systems, 2016, 153, 140-145. | 1.8 | 37 |

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| 37 | Effects of static spectrum removal and noise on 2D-correlation spectra of kinetic data. Analytica Chimica Acta, 1998, 368, 45-57. | 2.6 | 36 |
| 38 | Thermal degradation and isomerisation kinetics of triolein studied by infrared spectrometry and GCâ€“MS combined with chemometrics. Chemistry and Physics of Lipids, 2009, 158, 22-31. | 1.5 | 36 |
| 39 | Comparison of differential mobility spectrometry and mass spectrometry for gas chromatographic detection of ignitable liquids from fire debris using projected difference resolution. Analytical and Bioanalytical Chemistry, 2009, 394, 2061-2067. | 1.9 | 36 |
| 40 | High-sensitive electrochemical sensor of Sudan I based on template-directed self-assembly of graphene-ZnSe quantum dots hybrid structure. Sensors and Actuators B: Chemical, 2015, 215, 181-187. | 4.0 | 36 |
| 41 | A highly selective and sensitive electrochemical sensor for tryptophan based on the excellent surface adsorption and electrochemical properties of PSS functionalized graphene. Talanta, 2019, 196, 309-316. | 2.9 | 36 |
| 42 | Classification of Cultivation Locations of Panax quinquefolius L Samples using High Performance Liquid Chromatographyâ€“Electrospray Ionization Mass Spectrometry and Chemometric Analysis. Analytical Chemistry, 2012, 84, 3628-3634. | 3.2 | 35 |
| 43 | Coupling of single droplet micro-extraction with desorption electrospray ionization-mass spectrometry. International Journal of Mass Spectrometry, 2011, 301, 102-108. | 0.7 | 34 |
| 44 | Support Vector Machine Classification Trees. Analytical Chemistry, 2015, 87, 11065-11071. | 3.2 | 34 |
| 45 | Multiple Versus Single Set Validation of Multivariate Models to Avoid Mistakes. Critical Reviews in Analytical Chemistry, 2018, 48, 33-46. | 1.8 | 33 |
| 46 | Comparison of Flow Injection MS, NMR, and DNA Sequencing: Methods for Identification and Authentication of Black Cohosh (Actaea racemosa). Planta Medica, 2016, 82, 250-262. | 0.7 | 32 |
| 47 | A competitive chemiluminescence enzyme immunoassay for rapid and sensitive determination of enrofloxacin. Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy, 2012, 93, 164-168. | 2.0 | 30 |
| 48 | Exploring Authentic Skim and Nonfat Dry Milk Powder Variance for the Development of Nontargeted Adulterant Detection Methods Using Near-Infrared Spectroscopy and Chemometrics. Journal of Agricultural and Food Chemistry, 2013, 61, 9810-9818. | 2.4 | 30 |
| 49 | Electrostatic repulsion strategy for high-sensitive and selective determination of dopamine in the presence of uric acid and ascorbic acid. Talanta, 2020, 210, 120626. | 2.9 | 29 |
| 50 | Praseodymium nitrate and neodymium nitrate complexation with organophosphorus reagents in supercritical carbon dioxide solvent. Journal of Supercritical Fluids, 2004, 31, 273-286. | 1.6 | 28 |
| 51 | An application of Takagiâ€“Sugeno fuzzy system to the classification of cancer patients based on elemental contents in serum samples. Chemometrics and Intelligent Laboratory Systems, 2006, 82, 294-299. | 1.8 | 28 |
| 52 | Probability of Identification: Adulteration of American Ginseng with Asian Ginseng. Journal of AOAC INTERNATIONAL, 2013, 96, 1258-1265. | 0.7 | 28 |
| 53 | Profiling Amino Acids of Jordanian Scalp Hair as a Tool for Diabetes Mellitus Diagnosis: A Pilot Study. Analytical Chemistry, 2015, 87, 7078-7084. | 3.2 | 28 |
| 54 | Interactive Self-Modeling Mixture Analysis of Ion Mobility Spectra. Applied Spectroscopy, 1997, 51, 808-816. | 1.2 | 27 |

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|---|---|---|---|
| 55 | Two-Dimensional Nonlinear Wavelet Compression of Ion Mobility Spectra of Chemical Warfare Agent Simulants. Analytical Chemistry, 2004, 76, 2859-2868. | 3.2 | 27 |
| 56 | An emphatic orthogonal signal correction-support vector machine method for the classification of tissue sections of endometrial carcinoma by near infrared spectroscopy. Talanta, 2011, 83, 1401-1409. | 2.9 | 27 |
| 57 | Support vector machine classification trees based on fuzzy entropy of classification. Analytica Chimica Acta, 2017, 954, 14-21. | 2.6 | 27 |
| 58 | Ignitable liquid identification using gas chromatography/mass spectrometry data by projected difference resolution mapping and fuzzy rule-building expert system classification. Forensic Science International, 2012, 220, 210-218. | 1.3 | 26 |
| 59 | Two-dimensional wavelet compression of ion mobility spectra. Analytica Chimica Acta, 2001, 446, 391-410. | 2.6 | 25 |
| 60 | Bootstrap classification and point-based feature selection from age-staged mouse cerebellum tissues of matrix assisted laser desorption/ionization mass spectra using a fuzzy rule-building expert system. Analytica Chimica Acta, 2007, 599, 219-231. | 2.6 | 24 |
| 61 | Discrimination Among Panax Species Using Spectral Fingerprinting. Journal of AOAC INTERNATIONAL, 2011, 94, 1411-1421. | 0.7 | 24 |
| 62 | Near infrared spectroscopy combined with least squares support vector machines and fuzzy rule-building expert system applied to diagnosis of endometrial carcinoma. Cancer Epidemiology, 2012, 36, 317-323. | 0.8 | 24 |
| 63 | Fast and Selective Modification of Thiol Proteins/Peptides by N-(Phenylseleno)phthalimide. Journal of the American Society for Mass Spectrometry, 2012, 23, 520-529. | 1.2 | 24 |
| 64 | Characterization of Near-Infrared Spectral Variance in the Authentication of Skim and Nonfat Dry Milk Powder Collection Using ANOVA-PCA, Pooled-ANOVA, and Partial Least-Squares Regression. Journal of Agricultural and Food Chemistry, 2014, 62, 8060-8067. | 2.4 | 24 |
| 65 | Quantitative analysis of volatile organic compounds using ion mobility spectrometry and cascade correlation neural networks. Chemometrics and Intelligent Laboratory Systems, 1996, 33, 121-132. | 1.8 | 23 |
| 66 | Forward selection radial basis function networks applied to bacterial classification based on MALDI-TOF-MS. Talanta, 2004, 63, 527-532. | 2.9 | 23 |
| 67 | Locally linear embedding method for dimensionality reduction of tissue sections of endometrial carcinoma by near infrared spectroscopy. Analytica Chimica Acta, 2012, 724, 12-19. | 2.6 | 23 |
| 68 | Temperature-Constrained Cascade Correlation Networks. Analytical Chemistry, 1998, 70, 1297-1306. | 3.2 | 22 |
| 69 | Classification of cancer patients based on elemental contents of serums using bidirectional associative memory networks. Analytica Chimica Acta, 2001, 436, 281-291. | 2.6 | 22 |
| 70 | Real-time two-dimensional wavelet compression and its application to real-time modeling of ion mobility data. Analytica Chimica Acta, 2003, 490, 59-69. | 2.6 | 22 |
| 71 | Flow Injection Mass Spectroscopic Fingerprinting and Multivariate Analysis for Differentiation of Three Panax Species. Journal of AOAC INTERNATIONAL, 2011, 94, 90-99. | 0.7 | 22 |
| 72 | Prediction of total antioxidant activity of Prunella L. species by automatic partial least square regression applied to 2-way liquid chromatographic UV spectral images. Talanta, 2016, 161, 503-510. | 2.9 | 22 |

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|---|---|---|---|
| 73 | An ultrasensitive chemiluminescence immunoassay for fumonisin B<sub>1</sub> detection in cereals based on goldâ€coated magnetic nanoparticles. Journal of the Science of Food and Agriculture, 2018, 98, 3384-3390. | 1.7 | 22 |
| 74 | Fuzzy Optimal Associative Memory for Background Prediction of Near-Infrared Spectra. Applied Spectroscopy, 1996, 50, 35-42. | 1.2 | 21 |
| 75 | Validation using sensitivity and target transform factor analyses of neural network models for classifying bacteria from mass spectra. Journal of the American Society for Mass Spectrometry, 2002, 13, 10-21. | 1.2 | 21 |
| 76 | Ionâ˜Molecule Reactions of Gas-Phase Chromium Oxyanions:â€‰ CrxOyHz- + H2O. Journal of Physical Chemistry A, 2003, 107, 5948-5955. | 1.1 | 21 |
| 77 | Amino acid composition of human scalp hair as a biometric classifier and investigative lead. Analytical Methods, 2015, 7, 1707-1718. | 1.3 | 21 |
| 78 | Temperature-Constrained Backpropagation Neural Networks. Analytical Chemistry, 1994, 66, 802-807. | 3.2 | 20 |
| 79 | Multivariate Curve Resolution of Wavelet and Fourier Compressed Spectra. Analytical Chemistry, 2001, 73, 3247-3256. | 3.2 | 20 |
| 80 | SIMPLISMA applied to two-dimensional wavelet compressed ion mobility spectrometry data. Analytica Chimica Acta, 2003, 484, 75-91. | 2.6 | 20 |
| 81 | Application of Linear and Nonlinear Discrete Wavelet Transforms to MALDI-MS Measurements of Bacteria for Classification. Analytical Chemistry, 2008, 80, 7218-7225. | 3.2 | 20 |
| 82 | SIMPLISMA and ALS Applied to Two-Way Nonlinear Wavelet Compressed Ion Mobility Spectra of Chemical Warfare Agent Simulants. Analytical Chemistry, 2005, 77, 2575-2586. | 3.2 | 19 |
| 83 | Identification of rhubarbs by using NIR spectrometry and temperature-constrained cascade correlation networks. Talanta, 2006, 70, 1170-1176. | 2.9 | 19 |
| 84 | Comparison of Three Algorithms for the Baseline Correction of Hyphenated Data Objects. Analytical Chemistry, 2014, 86, 9050-9057. | 3.2 | 19 |
| 85 | Strain-level Staphylococcus differentiation by CeO2-metal oxide laser ionization mass spectrometry fatty acid profiling. BMC Microbiology, 2016, 16, 72. | 1.3 | 19 |
| 86 | The Analysis of Methamphetamine Hydrochloride by Thermal Desorption Ion Mobility Spectrometry and SIMPLISMA. Journal of Forensic Sciences, 1999, 44, 68-76. | 0.9 | 19 |
| 87 | Two-Dimensional Fourier Compression. Analytical Chemistry, 1997, 69, 4249-4255. | 3.2 | 18 |
| 88 | Classification of jet fuels by fuzzy rule-building expert systems applied to three-way data by fast gas chromatographyâ€”fast scanning quadrupole ion trap mass spectrometry. Talanta, 2011, 83, 1260-1268. | 2.9 | 18 |
| 89 | Multivariate Analysis Aided Surface-Enhanced Raman Spectroscopy (MVA-SERS) Multiplex Quantitative Detection of Trace Fentanyl in Illicit Drug Mixtures Using a Handheld Raman Spectrometer. Applied Spectroscopy, 2021, 75, 1225-1236. | 1.2 | 18 |
| 90 | Near real-time self-modeling mixture analysis. Chemometrics and Intelligent Laboratory Systems, 1997, 39, 175-185. | 1.8 | 17 |

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| 91 | Quality control of the powder pharmaceutical samples of sulfaguanidine by using NIR reflectance spectrometry and temperature-constrained cascade correlation networks. Talanta, 2004, 64, 943-948. | 2.9 | 17 |
| 92 | Holmium nitrate complexation with tri-n-butyl phosphate in supercritical carbon dioxide. Journal of Supercritical Fluids, 2005, 36, 137-144. | 1.6 | 17 |
| 93 | Classification of Jet Fuel Properties by Near-Infrared Spectroscopy Using Fuzzy Rule-Building Expert Systems and Support Vector Machines. Applied Spectroscopy, 2010, 64, 1251-1258. | 1.2 | 17 |
| 94 | Metabolomic profiling and comparison of major cinnamon species using UHPLCâ€“HRMS. Analytical and Bioanalytical Chemistry, 2020, 412, 7669-7681. | 1.9 | 17 |
| 95 | Nonlinear Wavelet Compression of Ion Mobility Spectra from Ion Mobility Spectrometers Mounted in an Unmanned Aerial Vehicle. Analytical Chemistry, 2004, 76, 1069-1077. | 3.2 | 16 |
| 96 | Direct profiling of the cerebellum by matrix-assisted laser desorption/ionization time-of-flight mass spectrometry: A methodological study in postnatal and adult mouse. Journal of Neuroscience Research, 2005, 81, 613-621. | 1.3 | 16 |
| 97 | Chemometric Studies for the Characterization and Differentiation of Microorganisms Using in Situ Derivatization and Thermal Desorption Ion Mobility Spectrometry. Analytical Chemistry, 2005, 77, 854-863. | 3.2 | 16 |
| 98 | Thermal Desorption Solid-Phase Microextraction Inlet for Differential Mobility Spectrometry. Applied Spectroscopy, 2005, 59, 754-762. | 1.2 | 16 |
| 99 | Automated pipeline for classifying Aroclors in soil by gas chromatography/mass spectrometry using modulo compressed two-way data objects. Talanta, 2013, 117, 483-491. | 2.9 | 16 |
| 100 | New insights into side effect of solvents on the aggregation of human islet amyloid polypeptide 11â€“20. Talanta, 2016, 148, 380-386. | 2.9 | 16 |
| 101 | Regularized Linear Discriminant Analysis of Wavelet Compressed Ion Mobility Spectra. Applied Spectroscopy, 2002, 56, 223-231. | 1.2 | 15 |
| 102 | Classification of bacteria by simultaneous methylationâ€“solid phase microextraction and gas chromatography/mass spectrometry analysis of fatty acid methyl esters. Analytical and Bioanalytical Chemistry, 2010, 397, 2959-2966. | 1.9 | 15 |
| 103 | Terahertz time-domain spectroscopy combined with fuzzy rule-building expert system and fuzzy optimal associative memory applied to diagnosis of cervical carcinoma. Medical Oncology, 2015, 32, 383. | 1.2 | 15 |
| 104 | Biomass-Depolarized Electrolysis. Journal of the Electrochemical Society, 2019, 166, E317-E322. | 1.3 | 15 |
| 105 | Optimal Associative Memory for Background Correction of Spectra. Analytical Chemistry, 1994, 66, 2047-2051. | 3.2 | 14 |
| 106 | A novel DPSO-SVM system for variable interval selection of endometrial tissue sections by near infrared spectroscopy. Talanta, 2013, 112, 136-142. | 2.9 | 14 |
| 107 | THz-TDS combined with a fuzzy rule-building expert system applied to the identification of official rhubarb samples. Analytical Methods, 2014, 6, 7695-7702. | 1.3 | 14 |
| 108 | Simultaneous quantification of Aroclor mixtures in soil samples by gas chromatography/mass spectrometry with solid phase microextraction using partial least-squares regression. Chemosphere, 2015, 118, 187-193. | 4.2 | 14 |

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|---|---|---|---|
| 109 | Feature expansion by a continuous restricted Boltzmann machine for near-infrared spectrometric calibration. Analytica Chimica Acta, 2018, 1010, 20-28. | 2.6 | 14 |
| 110 | Software: A chemometrics toolbox. Analytical Chemistry, 1997, 69, 248A-249A. | 3.2 | 13 |
| 111 | Trace analysis of BTEX compounds in water with a membrane interfaced ion mobility spectrometer. Talanta, 1998, 46, 1169-1179. | 2.9 | 13 |
| 112 | Evaluation of Neural Network Models with Generalized Sensitivity Analysis. Analytical Chemistry, 2000, 72, 5004-5013. | 3.2 | 13 |
| 113 | Flow injection mass spectroscopic fingerprinting and multivariate analysis for differentiation of three Panax species. Journal of AOAC INTERNATIONAL, 2011, 94, 90-9. | 0.7 | 13 |
| 114 | Analysis of plastic recycling products by expert systems. Analytica Chimica Acta, 1995, 312, 231-244. | 2.6 | 12 |
| 115 | Automated support vector regression. Journal of Chemometrics, 2017, 31, e2867. | 0.7 | 12 |
| 116 | Differentiation of Bovine, Porcine, and Fish Gelatins by Attenuated Total Reflectance Fourier Transform Infrared Spectroscopy (ATR-FTIRS) Coupled with Pattern Recognition. Journal of AOAC INTERNATIONAL, 2018, 101, 221-226. | 0.7 | 12 |
| 117 | Minimal neural networks: Differentiation of classification entropy. Chemometrics and Intelligent Laboratory Systems, 1993, 19, 143-154. | 1.8 | 11 |
| 118 | Chemometric Resolution of Mixture Components by Cleardown Rates. Analytical Chemistry, 1998, 70, 716-723. | 3.2 | 11 |
| 119 | Prediction of Substructure and Toxicity of Pesticides with Temperature Constrained-Cascade Correlation Network from Low-Resolution Mass Spectra. Analytical Chemistry, 1999, 71, 4134-4141. | 3.2 | 11 |
| 120 | Real-Time Interactive Self-Modeling Mixture Analysis. Applied Spectroscopy, 2001, 55, 621-629. | 1.2 | 11 |
| 121 | A comparative study of multilayer perceptron neural networks for the identification of rhubarb samples. Phytochemical Analysis, 2007, 18, 109-114. | 1.2 | 11 |
| 122 | A quantitative measure of the reliability of searches of spectral libraries. Analytica Chimica Acta, 1987, 197, 105-119. | 2.6 | 10 |
| 123 | Minimal neural networks: Concerted optimization of multiple decision planes. Chemometrics and Intelligent Laboratory Systems, 1993, 18, 157-170. | 1.8 | 10 |
| 124 | Feature selection of gas chromatography/mass spectrometry chemical profiles of basil plants using a bootstrapped fuzzy rule-building expert system. Analytical and Bioanalytical Chemistry, 2013, 405, 9219-9234. | 1.9 | 10 |
| 125 | New peptide inhibitors modulate the self-assembly of islet amyloid polypeptide residues 11â€“20 in vitro. European Journal of Pharmacology, 2017, 804, 102-110. | 1.7 | 10 |
| 126 | Effect of preprocessing high-resolution mass spectra on the pattern recognition of Cannabis, hemp, and liquor. Talanta, 2018, 180, 229-238. | 2.9 | 10 |

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|---|---|---|---|
| 127 | Wavelet Transform Preprocessing for Temperature Constrained Cascade Correlation Neural Networks. Journal of Chemical Information and Computer Sciences, 1999, 39, 874-880. | 2.8 | 9 |
| 128 | Near-infrared spectroscopic applications for diagnosis of endometrial carcinoma. Journal of Biomedical Optics, 2010, 15, 067002. | 1.4 | 9 |
| 129 | Chemical profiling of floral and chestnut honey using high-performance liquid chromatography-ultraviolet detection. Journal of Food Composition and Analysis, 2017, 62, 205-210. | 1.9 | 9 |
| 130 | Discriminant Analysis of Fused Positive and Negative Ion Mobility Spectra Using Multivariate Self-Modeling Mixture Analysis and Neural Networks. Applied Spectroscopy, 2008, 62, 133-141. | 1.2 | 8 |
| 131 | Study on the reaction mechanism and the static injection chemiluminescence method for detection of acetaminophen. Luminescence, 2013, 28, 905-909. | 1.5 | 8 |
| 132 | Determination of Aroclor 1260 in soil samples by gas chromatography with mass spectrometry and solid-phase microextraction. Journal of Separation Science, 2014, 37, 2751-2756. | 1.3 | 8 |
| 133 | Fuzzy Grid Encoded Independent Modeling for Class Analogies (FIMCA). Analytical Chemistry, 2014, 86, 4883-4892. | 3.2 | 8 |
| 134 | Application of chemometrics to resolve overlapping mass spectral peak clusters between trichloroethylene and its deuterated internal standard. Rapid Communications in Mass Spectrometry, 2015, 29, 789-794. | 0.7 | 8 |
| 135 | Spectral Representation of Proton NMR Spectroscopy for the Pattern Recognition of Complex Materials. Journal of Analysis and Testing, 2017, 1, 1. | 2.5 | 8 |
| 136 | Comparative Study of NMR Spectral Profiling for the Characterization and Authentication of Cannabis. Journal of AOAC INTERNATIONAL, 2017, 100, 1356-1364. | 0.7 | 8 |
| 137 | Automatic soft independent modeling for class analogies. Analytica Chimica Acta, 2019, 1090, 47-56. | 2.6 | 8 |
| 138 | Analysis of cranberry proanthocyanidins using UPLCâ€“ion mobilityâ€“high-resolution mass spectrometry. Analytical and Bioanalytical Chemistry, 2020, 412, 3653-3662. | 1.9 | 8 |
| 139 | An electrostatic repulsion strategy for a highly selective and sensitive â€œswitch-onâ€•fluorescence sensor of ascorbic acid based on the cysteamine-coated CdTe quantum dots and cerium(<scp>iv</scp>). New Journal of Chemistry, 2021, 45, 6301-6307. | 1.4 | 8 |
| 140 | Quantitative comparison of bidirectional and optimal associative memories for background prediction of spectra. Chemometrics and Intelligent Laboratory Systems, 1995, 29, 51-61. | 1.8 | 7 |
| 141 | A discriminant based charge deconvolution analysis pipeline for protein profiling of whole cell extracts using liquid chromatographyâ€“electrospray ionization-quadrupole time-of-flight mass spectrometry. Talanta, 2011, 84, 1180-1187. | 2.9 | 7 |
| 142 | In Situ Determination of Cannabidiol in Hemp Oil by Near-Infrared Spectroscopy. Journal of Natural Products, 2021, 84, 2851-2857. | 1.5 | 7 |
| 143 | Organic polymer analysis by laser ionization mass spectrometry and pattern recognition techniques. Journal of Applied Polymer Science, 1990, 41, 1737-1752. | 1.3 | 6 |
| 144 | High-Throughput Chemotyping of Cannabis and Hemp Extracts Using an Ultraviolet Microplate Reader and Multivariate Classifiers. Journal of Analysis and Testing, 2018, 2, 210-222. | 2.5 | 6 |

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| 145 | Classification of Cultivation Locations of Black Pepper (Piper nigrum L.) using Gas Chromatography and Chemometrics. Current Chromatography, 2015, 2, 145-151. | 0.1 | 6 |
| 146 | Electrospray Ionization Ion Mobility Mass Spectrometry. Critical Reviews in Analytical Chemistry, 2023, 53, 483-497. | 1.8 | 6 |
| 147 | Recovery of Variable Loadings and Eigenvalues Directly from Fourier Compressed Ion Mobility Spectra. Applied Spectroscopy, 1998, 52, 1328-1338. | 1.2 | 5 |
| 148 | Comparison of metal oxide catalysts for pyrolytic MOLIâ€“MS bacterial identification. Journal of Analytical and Applied Pyrolysis, 2015, 113, 78-83. | 2.6 | 5 |
| 149 | Differentiation ofAurantii fructus immaturusandFructus poniciri trifoliatae immaturusby Flow-Injection with Ultraviolet Spectroscopic Detection and Proton Nuclear Magnetic Resonance Using Partial Least-Squares Discriminant Analysis. Analytical Letters, 2016, 49, 711-722. | 1.0 | 5 |
| 150 | Analysis and Modeling for Big Data in Cancer Research. BioMed Research International, 2017, 2017, 1-2. | 0.9 | 5 |
| 151 | Pipeline for High-Throughput Modeling of Marijuana and Hemp Extracts. Analytical Chemistry, 2019, 91, 14489-14497. | 3.2 | 5 |
| 152 | Classification of Sand Grains by Terahertz Time-Domain Spectroscopy and Chemometrics. International Journal of Environmental Research, 2019, 13, 143-160. | 1.1 | 5 |
| 153 | Analysis of phenolic compositions in cranberry dietary supplements using UHPLC-HRMS. Journal of Food Composition and Analysis, 2020, 86, 103362. | 1.9 | 5 |
| 154 | Self-Optimizing Support Vector Elastic Net. Analytical Chemistry, 2020, 92, 15306-15316. | 3.2 | 5 |
| 155 | The Effect of Pyrolysis and Instrument Parameters on the Results of Various Supervised Learning Techniques. Applied Spectroscopy, 1991, 45, 36-41. | 1.2 | 4 |
| 156 | Variable alignment of high resolution data by cluster analysis. Analytica Chimica Acta, 1995, 310, 485-492. | 2.6 | 4 |
| 157 | Determination of Trichloroethylene in Water by Liquidâ€“Liquid Microextraction Assisted Solid Phase Microextraction. Chromatography (Basel), 2015, 2, 66-78. | 1.2 | 4 |
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