Kenneth W Busch

List of Publications by Year
in descending order

37 papers	706 citations	567281 15 h-index	552781 26 g-index
38 all docs	38 docs citations	38 times ranked	533 citing authors

#	Article	IF	Citations
1	Determination of Capsaicinoids in Habanero Peppers by Chemometric Analysis of UV Spectral Data. Journal of Agricultural and Food Chemistry, 2007, 55, 5925-5933.	5.2	94
2	Laborator studies on magnetic water treatment and their relationship to a possible mechanism for scale reduction. Desalination, 1997, 109, 131-148.	8.2	84
3	Determination of the enantiomeric composition of some molecules of pharmaceutical interest by chemometric analysis of the UV spectra of guest?host complexes formed with modified cyclodextrins. Talanta, 2005, 65, 838-845.	5.5	51
4	Determination of the Enantiomeric Composition of Guest Molecules by Chemometric Analysis of the UVâ^'Visible Spectra of Cyclodextrin Guestâ^'Host Complexes. Journal of the American Chemical Society, 2003, 125, 1690-1691.	13.7	49
5	Determination of the enantiomeric composition of some molecules of pharmaceutical interest by chemometric analysis of the UV spectra of cyclodextrin guestâ€“host complexes. Analytica Chimica Acta, 2004, 525, 53-62.	5.4	37
6	Magnetohydrodynamic Aggregation of Cholesterol and Polystyrene Latex Suspensions. Journal of Colloid and Interface Science, 1996, 183, 528-538.	9.4	33
7	Determination of the enantiomeric composition of phenylalanine samples by chemometric analysis of the fluorescence spectra of cyclodextrin guestâ€“host complexes. Analyst, The, 2005, 130, 233-241.	3.5	33
8	Infrared emission from a flame as the basis for chromatographic detection of organic compounds. Analytical Chemistry, 1987, 59, 2603-2609.	6.5	30
9	Fourier Transform Flame Infrared Emission Spectroscopy. Applied Spectroscopy, 1989, 43, 704-709.	2.2	28
10	Determination of enantiomeric composition of samples by multivariate regression modeling of spectral data obtained with cyclodextrin guestâ€“host complexesâ€”Effect of an achiral surfactant and use of mixed cyclodextrins. Talanta, 2006, 68, 1574-1583.	5.5	23
11	Determination of total inorganic carbon in aqueous samples with a flame infrared emission detector. Analytical Chemistry, 1989, 61, 1841-1846.	6.5	22
12	Introduction to Cavity-Ringdown Spectroscopy. ACS Symposium Series, 1999, , 7-19.	0.5	22
13	Multivariate Analysis of Near-Infrared Spectra Using the G-Programming Language. Journal of Chemical Information and Computer Sciences, 2000, 40, 1093-1100.	2.8	21
14	The Use of Poly(Sodium N-Undecanoyl-l-Leucylvalinate), Poly(Sodium N-Undecanoyl-l-Leucinate) and Poly(Sodium N-Undecanoyl-l-Valinate) Surfactants as Chiral Selectors for Determination of Enantiomeric Composition of Samples by Multivariate Regression Modeling of Fluorescence Spectral Data. Journal of Fluorescence, 2006, 16, 659-670.	2.5	20
15	Flame infrared emission detector for gas chromatography. Analytical Chemistry, 1988, 60, 2110-2115.	6.5	19
16	An Element-Specific, Dual-Channel, Flame Infrared Emission, Gas Chromatography Detector for Chlorinated and Fluorinated Hydrocarbons. Applied Spectroscopy, 1990, 44, 1247-1258.	2.2	15
17	Chiral analysis by regression modeling of spectral data. , 2006, , 363-395.		14
18	A Miniature Electrical Furnace as an Excitation Source for Low-Temperature, Gas-Phase, Infrared Emission Spectroscopy. Applied Spectroscopy, 1991, 45, 178-185.	2.2	12

#	Article	IF	Citations
19	Wavelength Calibration of a Dispersive Near-Infrared Spectrometer Using Trichloromethane as a Calibration Standard. Applied Spectroscopy, 2000, 54, 1321-1326.	2.2	12
20	Chiral analysis by multivariate regression modeling of spectral data using cyclodextrin guestâ€“host complexesâ€”Methods for determining enantiomeric composition with varying chiral analyte concentration. Talanta, 2008, 75, 572-584.	5.5	11
21	An Investigation of the Signal Obtained from a Flame Infrared Emission (FIRE) Detector. Applied Spectroscopy, 1990, 44, 318-325.	2.2	10
22	Signal-to-Noise Considerations in Flame/Furnace Infrared Emission Spectroscopy. Applied Spectroscopy, 1991, 45, 546-554.	2.2	8
23	Terminal and Intermediate Combustion Products Observed from 2.0 to 5.0 Î¼m in Flame/Furnace Infrared Emission Spectrometry. Applied Spectroscopy, 1992, 46, 1673-1684.	2.2	7
24	Design and performance of a direct-reading, multichannel spectrometer for the determination of chlorinated purgeable organic compounds by flame infrared-emission spectrometry. Talanta, 1991, 38, 589-602.	5.5	6
25	Pre-Excitation, Catalytic Oxidation of Analytes over Hopcalite in Flame/Furnace Infrared Emission (FIRE) Spectrometry. Applied Spectroscopy, 1992, 46, 631-639.	2.2	6
26	Evaluation of an Improved Burner Design for a Flame Infrared Emission (FIRE) Gas Chromatography Detector. Applied Spectroscopy, 1992, 46, 930-939.	2.2	6
27	Parameters determining the deposition of calcium carbonate into a glass capillary. Journal of Adhesion Science and Technology, 1994, 8, 181-193.	2.6	6
28	Spatial Emission Characteristics of a Capillary-Burner Excitation Source for a Flame Infrared Emission (FIRE) Radiometer. Applied Spectroscopy, 1991, 45, 1684-1694.	2.2	5
29	A High-Efficiency Light-Collection System for Energy-Limited Infrared Emission Radiometers. Applied Spectroscopy, 1991, 45, 964-968.	2.2	4
30	Novel Spectropolarimeter Employing Fixed Polarizers for the Determination of Optically Active Samples. Applied Spectroscopy, 2008, 62, 402-413.	2.2	4
31	Instrumental aspects of chiroptical detection. , 2006, , 299-341.		3
32	Design and Evaluation of a Near-Infrared Dispersive Spectrometer That Uses a He-Ne Laser for Automatic Internal Wavelength Calibration. Applied Spectroscopy, 2002, 56, 346-349.	2.2	2
33	Evaluation of Thermospray and Cross-Flow Pneumatic Nebulization as Means of Interfacing a Flame Infrared Emission (FIRE) Radiometer to a High-Performance Liquid Chromatograph. Applied Spectroscopy, 1993, 47, 192-200.	2.2	1
34	Signal-to-Noise Comparison of Flame/Furnace Infrared Emission (FIRE) Spectrometry with Room-Temperature, Nondispersive Infrared Absorption Spectrophotometry. Applied Spectroscopy, 1993, 47, 912-921.	2.2	1
35	Design Parameters for an Optimized Flame/Furnace Infrared Emission (FIRE) Radiometer. Applied Spectroscopy, 1993, 47, 2072-2080.	2.2	1
36	Determination of the Stray Light Levels in a Dispersive Near-Infrared Spectrometer with Trichloromethane. Applied Spectroscopy, 2000, 54, 1759-1766.	2.2	1

#	Article	IF	Citations
37	Determination of chloride ion in aqueous samples by isotope-dilution Fourier-transform flame infrared emission (ID-FIRE) spectrometry. Talanta, 1998, 46, 1591-1604.	5.5	0