Barry M Wise

List of Publications by Year
in descending order

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19	1,573	686830 13	839053 18
papers	citations	h-index	g-index

19	19	19	1078
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	A Calibration Model Maintenance Roadmap. IFAC-PapersOnLine, 2015, 48, 260-265.	0.5	38
2	Decompositions using maximum signal factors. Journal of Chemometrics, 2014, 28, 663-671.	0.7	6
3	Design and Information Content of Arrays of Sorption-Based Vapor Sensors Using Solubility Interactions and Linear Solvation Energy Relationships. , 2009, , 193-218.		6
4	Pre-whitening of data by covariance-weighted pre-processing. Journal of Chemometrics, 2003, 17, 153-165.	0.7	88
5	Analysis of combined mass- and volume-transducing sensor arrays. Journal of Chemometrics, 2003, 17, 463-469.	0.7	13
6	Classical least squares transformations of sensor array pattern vectors into vapor descriptors. Analytica Chimica Acta, 2003, 490, 169-184.	2.6	11
7	Estimation of trace vapor concentration-pathlength in plumes for remote sensing applications from hyperspectral images. Analytica Chimica Acta, 2003, 490, 139-152.	2.6	26
8	Error Analysis for Estimation of Trace Vapor Concentration Pathlength in Stack Plumes. Applied Spectroscopy, 2003, 57, 614-621.	1.2	9
9	Simultaneous Fault Detection and Classification for Semiconductor Manufacturing Tools. Journal of the Electrochemical Society, 2003, 150, G778.	1.3	38
10	Inverse Least-Squares Modeling of Vapor Descriptors Using Polymer-Coated Surface Acoustic Wave Sensor Array Responses. Analytical Chemistry, 2001, 73, 5247-5259.	3.2	48
11	Application of PARAFAC2 to fault detection and diagnosis in semiconductor etch. Journal of Chemometrics, 2001, 15, 285-298.	0.7	50
12	A Method for Chemometric Classification of Unknown Vapors from the Responses of an Array of Volume-Transducing Sensors. Analytical Chemistry, 2001, 73, 2239-2244.	3.2	23
13	A comparison of principal component analysis, multiway principal component analysis, trilinear decomposition and parallel factor analysis for fault detection in a semiconductor etch process. Journal of Chemometrics, 1999, 13, 379-396.	0.7	250
14	Method for Unknown Vapor Characterization and Classification Using a Multivariate Sorption Detector. Initial Derivation and Modeling Based on Polymer-Coated Acoustic Wave Sensor Arrays and Linear Solvation Energy Relationships. Analytical Chemistry, 1999, 71, 4544-4553.	3.2	72
15	Hydrogen Bond Acidic Polymers for Surface Acoustic Wave Vapor Sensors and Arrays. Analytical Chemistry, 1999, 71, 1033-1040.	3.2	71
16	Development and Benchmarking of Multivariate Statistical Process Control Tools for a Semiconductor Etch Process: Improving Robustness through Model Updating. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 79-84.	0.4	43
17	Development and Benchmarking of Multivariate Statistical Process Control Tools for a Semiconductor ETCH Process: Impact of Measurement Selection and Data Treatment on Sensitivity. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 1997, 30, 35-42.	0.4	6
18	Application of multi-way principal components analysis to nuclear waste storage tank monitoring. Computers and Chemical Engineering, 1996, 20, S739-S744.	2.0	59

#	Article	IF	Citations
19	The process chemometrics approach to process monitoring and fault detection. Journal of Process Control, 1996, 6, 329-348.	1.7	716