John H Kalivas

List of Publications by Year in descending order

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		186265	197818
85	2,647 citations	28	49
papers	citations	h-index	g-index
89	89	89	1814
09	09	03	1014
all docs	docs citations	times ranked	citing authors

#	Article	IF	CITATIONS
1	Automatic food and beverage authentication and adulteration detection by classification hybrid fusion. Journal of Chemometrics, 2023, 37, e3371.	1.3	2
2	Reliable Model Selection without Reference Values by Utilizing Model Diversity with Prediction Similarity. Journal of Chemical Information and Modeling, 2021, 61, 2220-2230.	5.4	5
3	Ultrasonic-assisted catalytic transfer hydrogenation for upgrading pyrolysis-oil. Ultrasonics Sonochemistry, 2021, 73, 105502.	8.2	11
4	Calibration Model Updating to Novel Sample and Measurement Conditions without Reference Values. Analytical Chemistry, 2021, 93, 9688-9696.	6.5	7
5	Identifying Chemical, Physical, and Instrumental Matrix Matched Samples by Leveraging Spectral Model Regression Vectors. Analytical Chemistry, 2020, 92, 815-823.	6.5	5
6	Calibration Methodologies. , 2020, , 213-247.		2
7	Self-Optimized One-Class Classification Using Sum of Ranking Differences Combined with a Receiver Operator Characteristic Curve. Analytical Chemistry, 2020, 92, 5354-5361.	6.5	10
8	Model selection challenges with application to multivariate calibration updating methods. Journal of Chemometrics, 2020, 34, e3245.	1.3	7
9	Application of a Hybrid Fusion Classification Process for Identification of Microplastics Based on Fourier Transform Infrared Spectroscopy. Applied Spectroscopy, 2020, 74, 1167-1183.	2.2	31
10	Data Fusion of Nonoptimized Models. Data Handling in Science and Technology, 2019, , 345-370.	3.1	3
11	Sample and feature augmentation strategies for calibration updating. Journal of Chemometrics, 2019, 33, e3080.	1.3	13
12	Feasibility Assessment of Synchronous Fluorescence Spectral Fusion by Application to Argan Oil for Adulteration Analysis. Applied Spectroscopy, 2018, 72, 432-441.	2.2	17
13	Consensus Classification Using Non-Optimized Classifiers. Analytical Chemistry, 2018, 90, 4429-4437.	6.5	20
14	Sampleâ€wise spectral multivariate calibration desensitized to new artifacts relative to the calibration data using a residual penalty. Journal of Chemometrics, 2017, 31, e2873.	1.3	7
15	Introduction to special issue on penalty methods. Journal of Chemometrics, 2017, 31, e2879.	1.3	0
16	Consensus Outlier Detection Using Sum of Ranking Differences of Common and New Outlier Measures Without Tuning Parameter Selections. Analytical Chemistry, 2017, 89, 5087-5094.	6.5	32
17	Leveraging multiple linear regression for wavelength selection. Chemometrics and Intelligent Laboratory Systems, 2017, 168, 121-127.	3.5	9
18	Selectivityâ€relaxed classical and inverse least squares calibration and selectivity measures with a unified selectivity coefficient. Journal of Chemometrics, 2017, 31, e2925.	1.3	7

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19	Penalty processes for combining roughness and smoothness in spectral multivariate calibration. Journal of Chemometrics, 2016, 30, 144-152.	1.3	3
20	Using the L 1 norm to select basis set vectors for multivariate calibration and calibration updating. Journal of Chemometrics, 2016, 30, 109-120.	1.3	3
21	Fusion strategies for selecting multiple tuning parameters for multivariate calibration and other penalty based processes: A model updating application for pharmaceutical analysis. Analytica Chimica Acta, 2016, 921, 28-37.	5.4	27
22	Feasibility Study for Transforming Spectral and Instrumental Artifacts for Multivariate Calibration Maintenance. Applied Spectroscopy, 2015, 69, 407-416.	2.2	10
23	Sum of ranking differences (SRD) to ensemble multivariate calibration model merits for tuning parameter selection and comparing calibration methods. Analytica Chimica Acta, 2015, 869, 21-33.	5.4	39
24	Net Analyte Signal (NAS) for Selection of Multivariate Calibration Models and Development of NAS Sample-Wise Target Calibration Model Attributes. ACS Symposium Series, 2015, , 221-240.	0.5	0
25	Characterizing multivariate calibration tradeoffs (bias, variance, selectivity, and sensitivity) to select model tuning parameters. Journal of Chemometrics, 2014, 28, 347-357.	1.3	32
26	Data fusion for food authentication. Combining rare earth elements and trace metals to discriminate "Fava Santorinis―from other yellow split peas using chemometric tools. Food Chemistry, 2014, 165, 316-322.	8.2	56
27	Food adulteration analysis without laboratory prepared or determined reference food adulterant values. Food Chemistry, 2014, 148, 289-293.	8.2	10
28	Spectral Multivariate Calibration without Laboratory Prepared or Determined Reference Analyte Values. Analytical Chemistry, 2013, 85, 1509-1516.	6.5	12
29	A consensus modeling approach to update a spectroscopic calibration. Chemometrics and Intelligent Laboratory Systems, 2013, 120, 142-153.	3.5	39
30	Interrelationships between generalized Tikhonov regularization, generalized net analyte signal, and generalized least squares for desensitizing a multivariate calibration to interferences. Journal of Chemometrics, 2013, 27, 126-140.	1.3	15
31	Evaluation of target factor analysis and net analyte signal as processes for classification purposes with application to benchmark data sets and extra virgin olive oil adulterant identification. Journal of Chemometrics, 2012, 26, 66-75.	1.3	5
32	Overview of twoâ€norm (L ₂) and oneâ€norm (L ₁) Tikhonov regularization variants for full wavelength or sparse spectral multivariate calibration models or maintenance. Journal of Chemometrics, 2012, 26, 218-230.	1.3	65
33	Updating a near-infrared multivariate calibration model formed with lab-prepared pharmaceutical tablet types to new tablet types in full production. Journal of Pharmaceutical and Biomedical Analysis, 2012, 61, 114-121.	2.8	26
34	Updating a Synchronous Fluorescence Spectroscopic Virgin Olive Oil Adulteration Calibration to a New Geographical Region. Journal of Agricultural and Food Chemistry, 2011, 59, 1051-1057.	5.2	38
35	Multivariate calibration leverages and spectral $\langle i \rangle F \langle i \rangle \hat{a} \in \mathbb{R}$ atios via the filter factor representation. Journal of Chemometrics, 2010, 24, 249-260.	1.3	6
36	Impact of standardization sample design on Tikhonov regularization variants for spectroscopic calibration maintenance and transfer. Journal of Chemometrics, 2010, 24, 218-229.	1.3	33

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37	Spectral Multivariate Calibration with Wavelength Selection Using Variants of Tikhonov Regularization. Applied Spectroscopy, 2010, 64, 1388-1395.	2.2	36
38	Model Updating for Spectral Calibration Maintenance and Transfer Using 1-Norm Variants of Tikhonov Regularization. Analytical Chemistry, 2010, 82, 3642-3649.	6.5	56
39	Calibration Maintenance and Transfer Using Tikhonov Regularization Approaches. Applied Spectroscopy, 2009, 63, 800-809.	2.2	61
40	Learning from Procrustes analysis to improve multivariate calibration. Journal of Chemometrics, 2008, 22, 227-234.	1.3	16
41	Prediction of retention indices for identification of fatty acid methyl esters. Journal of Chromatography A, 2008, 1198-1199, 188-195.	3.7	27
42	A Service-Learning Project Based on a Research Supportive Curriculum Format in the General Chemistry Laboratory. Journal of Chemical Education, 2008, 85, 1410.	2.3	41
43	Progression of Chemometrics in Research Supportive Curricula: Preparing for the Demands of Society. ACS Symposium Series, 2007, , 140-156.	0.5	2
44	Wavelength Selection for Multivariate Calibration Using Tikhonov Regularization. Applied Spectroscopy, 2007, 61, 85-95.	2.2	40
45	Evaluation of Multivariate Calibration Using a Tikhonov Regularization Approach and the Generalized Pairâ€Correlation Method with Nonlinear Data. Analytical Letters, 2007, 40, 1227-1251.	1.8	1
46	Uncertainty estimation and figures of merit for multivariate calibration (IUPAC Technical Report). Pure and Applied Chemistry, 2006, 78, 633-661.	1.9	309
47	Impartial graphical comparison of multivariate calibration methods and the harmony/parsimony tradeoff. Journal of Chemometrics, 2006, 20, 464-475.	1.3	23
48	Tikhonov regularization in standardized and general form for multivariate calibration with application towards removing unwanted spectral artifacts. Journal of Chemometrics, 2006, 20, 22-33.	1.3	26
49	Multivariate Calibration, an Overview. Analytical Letters, 2005, 38, 2259-2279.	1.8	46
50	Realizing Workplace Skills in Instrumental Analysis. Journal of Chemical Education, 2005, 82, 895.	2.3	16
51	QSAR modeling based on the bias/variance compromise: a harmonious. Journal of Computer-Aided Molecular Design, 2004, 18, 537-547.	2.9	9
52	Effective rank for multivariate calibration methods. Journal of Chemometrics, 2004, 18, 306-311.	1.3	27
53	Pareto calibration with built-in wavelength selection. Analytica Chimica Acta, 2004, 505, 9-14.	5.4	18
54	Quantifying selectivity in spectrophotometric multicomponent analysis. TrAC - Trends in Analytical Chemistry, 2003, 22, 352-361.	11.4	32

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55	Assessment of Pareto Calibration, Stability, and Wavelength Selection. Applied Spectroscopy, 2003, 57, 309-316.	2.2	10
56	Demonstrated Potential of Ion Mobility Spectrometry for Detection of Adulterated Perfumes and Plant Speciation. Analytical Letters, 2003, 36, 215-244.	1.8	9
57	Graphical diagnostics for regression model determinations with consideration of the bias/variance trade-off. Chemometrics and Intelligent Laboratory Systems, 2002, 60, 173-188.	3.5	45
58	Pareto Optimal Multivariate Calibration for Spectroscopic Data. Applied Spectroscopy, 2001, 55, 1645-1652.	2.2	27
59	PCR eigenvector selection based on correlation relative standard deviations. Journal of Chemometrics, 2001, 15, 615-626.	1.3	12
60	Basis sets for multivariate regression. Analytica Chimica Acta, 2001, 428, 31-40.	5.4	48
61	Implementation of Traditional and Real-World Cooperative Learning Techniques in Quantitative Analysis Including Near Infrared Spectroscopy for Analysis of Live Fish. Journal of Chemical Education, 2000, 77, 1314.	2.3	12
62	Cyclic subspace regression with analysis of the hat matrix. Chemometrics and Intelligent Laboratory Systems, 1999, 45, 215-224.	3.5	23
63	Interrelationships of multivariate regression methods using eigenvector basis sets. Journal of Chemometrics, 1999, 13, 111-132.	1.3	68
64	Post-Consumer Plastic Identification Using Raman Spectroscopy. Applied Spectroscopy, 1999, 53, 672-681.	2.2	89
65	Fundamentals of Calibration Transfer through Procrustes Analysis. Applied Spectroscopy, 1999, 53, 1268-1276.	2.2	48
66	Cyclic Subspace Regression. Journal of Multivariate Analysis, 1998, 65, 58-70.	1.0	24
67	Orthogonality considerations for library searching Nth-order data. Chemometrics and Intelligent Laboratory Systems, 1998, 41, 115-125.	3.5	4
68	Stabilization of cyclic subspace regression. Chemometrics and Intelligent Laboratory Systems, 1998, 41, 127-134.	3.5	6
69	Use of Matrix Orthogonal Projection for Peak Purity Assessment. Analytical Letters, 1997, 30, 395-416.	1.8	5
70	Wavelength Selection Characterization for NIR Spectra. Applied Spectroscopy, 1997, 51, 689-699.	2.2	66
71	Two data sets of near infrared spectra. Chemometrics and Intelligent Laboratory Systems, 1997, 37, 255-259.	3.5	191

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73	Selectivity and Related Measures fornth-Order Data. Analytical Chemistry, 1996, 68, 1572-1579.	6.5	84
74	Simulated-annealing-based optimization algorithms: Fundamentals and wavelength selection applications. Journal of Chemometrics, 1995, 9, 283-308.	1.3	42
75	A global perspective on multivariate calibration methods. Journal of Chemometrics, 1993, 7, 153-163.	1.3	7
76	Computer-generated multicomponent calibration designs for optimal analysis sample predictions. Journal of Chemometrics, 1992, 6, 85-96.	1.3	5
77	Which principal components to utilize for principal component regression. Journal of Chemometrics, 1992, 6, 217-225.	1.3	93
78	Generalized simulated annealing for calibration sample selection from an existing set and orthogonalization of undesigned experiments. Journal of Chemometrics, 1991, 5, 37-48.	1.3	44
79	Assessing Spectral Orthogonality. Applied Spectroscopy Reviews, 1989, 25, 229-259.	6.7	6
80	Variance-decomposition of pure-component spectra as a measure of selectivity. Journal of Chemometrics, 1989, 3, 409-418.	1.3	17
81	Condition numbers, iterative refinement and error bounds. Journal of Chemometrics, 1989, 3, 443-449.	1.3	6
82	Global optimization by simulated annealing with wavelength selection for ultraviolet-visible spectrophotometry. Analytical Chemistry, 1989, 61, 2024-2030.	6.5	207
83	A Simplex Optimized Inductively Coupled Plasma Spectrometer with Minimization of Interferences. Applied Spectroscopy, 1987, 41, 1338-1342.	2.2	12
84	Restoration of defaced serial numbers using lock-in infrared thermography (Part I). Journal of Spectral Imaging, $0,$	0.0	2
85	Restoration of defaced serial numbers using lock-in infrared thermography (Part II). Journal of Spectral Imaging, 0, , .	0.0	1