Yulong Xie

List of Publications by Year in descending order

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		394421	434195
52	1,117	19	31
papers	citations	h-index	g-index

156	156	156	1039
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The use of positive matrix factorization with conditional probability functions in air quality studies: An application to hydrocarbon emissions in Houston, Texas. Atmospheric Environment, 2006, 40, 3070-3091.	4.1	95
2	Evaluation of principal component selection methods to form a global prediction model by principal component regression. Analytica Chimica Acta, 1997, 348, 19-27.	5.4	70
3	Identification of source nature and seasonal variations of Arctic aerosol by the multilinear engine. Atmospheric Environment, 1999, 33, 2549-2562.	4.1	60
4	Robust principal component analysis by projection pursuit. Journal of Chemometrics, 1993, 7, 527-541.	1.3	49
5	Computer simulation of electron thermalization in CsI and CsI(Tl). Journal of Applied Physics, 2011, 110, .	2.5	47
6	Computer simulation of the light yield nonlinearity of inorganic scintillators. Journal of Applied Physics, 2009, 105, .	2.5	43
7	Locations and preferred pathways of possible sources of Arctic aerosol. Atmospheric Environment, 1999, 33, 2229-2239.	4.1	40
8	The use of conditional probability functions and potential source contribution functions to identify source regions and advection pathways of hydrocarbon emissions in Houston, Texas. Atmospheric Environment, 2007, 41, 5831-5847.	4.1	40
9	Cluster analysis by simulated annealing. Computers & Chemistry, 1994, 18, 103-108.	1.2	38
10	DSSIM-HR: A FORTRAN 90 program for direct sequential simulation with histogram reproduction. Computers and Geosciences, 2003, 29, 39-51.	4.2	34
11	Monte Carlo method for simulating Î³-ray interaction with materials: A case study on Si. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 579, 292-296.	1.6	33
12	Monte Carlo simulations of electron thermalization in alkali iodide and alkaline-earth fluoride scintillators. Journal of Applied Physics, 2012, 112, .	2.5	32
13	Gamma-ray interaction in Ge: A Monte Carlo simulation. Nuclear Instruments & Methods in Physics Research B, 2007, 255, 286-290.	1.4	30
14	Energy savings potential from improved building controls for the US commercial building sector. Energy Efficiency, 2018, 11, 393-413.	2.8	27
15	Local prediction models by principal component regression. Analytica Chimica Acta, 1997, 348, 29-38.	5.4	26
16	Calibration transfer as a data reconstruction problem. Analytica Chimica Acta, 1999, 384, 193-205.	5.4	26
17	Correlation between bacterial attachment rate coefficients and hydraulic conductivity and its effect on field-scale bacterial transport. Advances in Water Resources, 2007, 30, 1571-1582.	3.8	26
18	An Evaluation of a Diagnostic Wind Model (CALMET). Journal of Applied Meteorology and Climatology, 2008, 47, 1739-1756.	1.5	26

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19	Yield, variance and spatial distribution of electronâ€“hole pairs in CsI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 564-567.	1.6	23
20	Electron-Hole Pairs Created by Photons and Intrinsic Properties in Detector Materials. IEEE Transactions on Nuclear Science, 2008, 55, 1079-1085.	2.0	20
21	Monte Carlo simulation of gamma-ray response of BaF2 and CaF2. Journal of Applied Physics, 2013, 114, .	2.5	19
22	Cluster analysis by the K-means algorithm and simulated annealing. Chemometrics and Intelligent Laboratory Systems, 1994, 25, 51-60.	3.5	17
23	Second-order tensorial calibration for kinetic spectrophotometric determination. Chemometrics and Intelligent Laboratory Systems, 1996, 32, 215-232.	3.5	16
24	Direct Geostatistical Simulation With Multiscale Well, Seismic, and Production Data. , 2001, , .		16
25	Monte Carlo simulation of electron thermalization in scintillator materials: Implications for scintillator nonproportionality. Journal of Applied Physics, 2017, 122, .	2.5	16
26	Simulated building energy demand biases resulting from the use of representative weather stations. Applied Energy, 2018, 209, 516-528.	10.1	16
27	Kinetic spectrophotometric resolution of binary mixtures using three-way partial least squares. Chemometrics and Intelligent Laboratory Systems, 1995, 27, 211-220.	3.5	15
28	Mixed multiway analysis of airborne particle composition data. Journal of Chemometrics, 1999, 13, 343-352.	1.3	13
29	Modelling and prediction of retention in high-performance liquid chromatography by using neural networks. Chromatographia, 1995, 41, 435-444.	1.3	12
30	Robust Kalman filter as a chemometric method for analytical data processing. Analytica Chimica Acta, 1992, 269, 307-316.	5.4	11
31	A comparative study of several chemometric methods applied to the treatment of two-way kinetic-spectral data for mixture resolution. Analytica Chimica Acta, 1996, 321, 75-95.	5.4	11
32	Load component database of household appliances and small office equipment. , 2008, , .		11
33	Assessing overall building energy performance of a large population of residential single-family homes using limited field data. Journal of Building Performance Simulation, 2019, 12, 480-493.	2.0	10
34	A multi-scale calibration approach for process-oriented aggregated building energy demand models. Energy and Buildings, 2019, 191, 82-94.	6.7	10
35	Background bilinearization by the use of generalized standard addition method on two-dimensional data. Analytica Chimica Acta, 1993, 281, 207-218.	5.4	8
36	Robust regression used for the treatment of partial non-linearity in multivariate calibration. Analytica Chimica Acta, 1995, 313, 185-196.	5.4	8

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37	A Model of the Effects of Flow Fluctuations on Fall Chinook Salmon Spawning Habitat Availability in the Columbia River. North American Journal of Fisheries Management, 2008, 28, 1894-1910.	1.0	8
38	Future western U.S. building electricity consumption in response to climate and population drivers: A comparative study of the impact of model structure. Energy, 2020, 208, 118312.	8.8	8
39	Constrained background bilinearization with a generalized simulated annealing algorithm. Journal of Chemometrics, 1993, 7, 369-379.	1.3	5
40	Maximum sum of binary-coded residuals (MASBR) regression as a robust procedure for treatment of spectral data. Journal of Chemometrics, 1995, 9, 373-387.	1.3	5
41	Evaluating Building Energy Code Compliance and Savings Potential through Large-Scale Simulation with Models Inferred by Field Data. Energies, 2020, 13, 2321.	3.1	5
42	Monte Carlo simulation of the passage of Î³-rays and Î±-particles in CsI. Nuclear Instruments & Methods in Physics Research B, 2021, 490, 25-33.	1.4	5
43	Assessment of peak purity in liquid chromatography using condition index and singular value evolving profiles. Analytica Chimica Acta, 1995, 317, 17-32.	5.4	3
44	A nonlinearity tracking analysis algorithm for treatment of non-linearity in multivariate calibration. Chemometrics and Intelligent Laboratory Systems, 1995, 27, 21-32.	3.5	3
45	Radiation response of inorganic scintillators: insights from Monte Carlo simulations. Proceedings of SPIE, 2014, , .	0.8	3
46	Quantitative calibration of multi-component systems with a known range of possibly co-existing species. Analytica Chimica Acta, 1993, 272, 61-72.	5.4	2
47	Identification of â€œgreyâ€•analytical systems with incomplete information. Analytica Chimica Acta, 1993, 276, 455-463.	5.4	1
48	Multivariate Calibration in Chemometrics: the Robust Approach.. Analytical Sciences, 1994, 10, 149-153.	1.6	1
49	Applications of Monte Carlo Methods to Simulate Gamma Ray Interactions in Si and Ge. , 2006, , .		1
50	2 Data preprocessing. Data Handling in Science and Technology, 1996, 17, 25-66.	3.1	0
51	<title>Mixed multiway analysis of airborne particle composition data</title>. , 1999, 3854, 36.		0
52	Methodology and analytical approach to investigate the impact of building temperature setpoint schedules. Journal of Building Performance Simulation, 2022, 15, 128-147.	2.0	0