Genyuan Li

List of Publications by Year in descending order

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28 papers	1,814 citations	516561 16 h-index	526166 27 g-index
28 all docs	28 docs citations	28 times ranked	881 citing authors

#	Article	IF	Citations
1	Global Sensitivity Analysis with Mixtures: A Generalized Functional ANOVA Approach. Risk Analysis, 2022, 42, 304-333.	1.5	2
2	Molecular discovery by optimal sequential search. Journal of Mathematical Chemistry, 2019, 57, 2110-2141.	0.7	0
3	High efficiency classification of children with autism spectrum disorder. PLoS ONE, 2018, 13, e0192867.	1.1	13
4	High dimensional model representation constructed by support vector regression. I. Independent variables with known probability distributions. Journal of Mathematical Chemistry, 2017, 55, 278-303.	0.7	10
5	Relationship between sensitivity indices defined by variance- and covariance-based methods. Reliability Engineering and System Safety, 2017, 167, 136-157.	5.1	34
6	Sparse and nonnegative sparse D-MORPH regression. Journal of Mathematical Chemistry, 2015, 53, 1885-1914.	0.7	4
7	Experimental Design of Formulations Utilizing High Dimensional Model Representation. Journal of Physical Chemistry A, 2015, 119, 8237-8249.	1.1	8
8	Analytical HDMR formulas for functions expressed as quadratic polynomials with a multivariate normal distribution. Journal of Mathematical Chemistry, 2014, 52, 2052-2073.	0.7	8
9	D-MORPH regression for modeling with fewer unknown parameters than observation data. Journal of Mathematical Chemistry, 2012, 50, 1747-1764.	0.7	32
10	A scalable algorithm for molecular property estimation in high dimensional scaffold-based libraries. Journal of Mathematical Chemistry, 2012, 50, 1765-1790.	0.7	5
11	General formulation of HDMR component functions with independent and correlated variables. Journal of Mathematical Chemistry, 2012, 50, 99-130.	0.7	108
12	Enhancing molecular discovery using descriptorâ€free rearrangement clustering techniques for sparse data sets. AICHE Journal, 2010, 56, 405-418.	1.8	1
13	Global Sensitivity Analysis for Systems with Independent and/or Correlated Inputs. Journal of Physical Chemistry A, 2010, 114, 6022-6032.	1.1	183
14	D-MORPH regression: application to modeling with unknown parameters more than observation data. Journal of Mathematical Chemistry, 2010, 48, 1010-1035.	0.7	51
15	Regularized random-sampling high dimensional model representation (RS-HDMR). Journal of Mathematical Chemistry, 2008, 43, 1207-1232.	0.7	59
16	Random Sampling-High Dimensional Model Representation (RS-HDMR) and Orthogonality of Its Different Order Component Functions. Journal of Physical Chemistry A, 2006, 110, 2474-2485.	1.1	158
17	Ratio control variate method for efficiently determining high-dimensional model representations. Journal of Computational Chemistry, 2006, 27, 1112-1118.	1.5	32
18	Multicut-HDMR with an application to an ionospheric model. Journal of Computational Chemistry, 2004, 25, 1149-1156.	1.5	32

#	Article	IF	Citations
19	Correlation method for variance reduction of Monte Carlo integration in RS-HDMR. Journal of Computational Chemistry, 2003, 24, 277-283.	1.5	38
20	High-dimensional model representations generated from low order terms?lp-RS-HDMR. Journal of Computational Chemistry, 2003, 24, 647-656.	1.5	30
21	Random Samplingâ^'High Dimensional Model Representation (RSâ^'HDMR) with Nonuniformly Distributed Variables:â€‰ Application to an Integrated Multimedia/Multipathway Exposure and Dose Model for Trichloroethylene. Journal of Physical Chemistry A, 2003, 107, 4707-4716.	1.1	68
22	Practical Approaches To Construct RS-HDMR Component Functions. Journal of Physical Chemistry A, 2002, 106, 8721-8733.	1.1	234
23	Global uncertainty assessments by high dimensional model representations (HDMR). Chemical Engineering Science, 2002, 57, 4445-4460.	1.9	157
24	High Dimensional Model Representations. Journal of Physical Chemistry A, 2001, 105, 7765-7777.	1.1	403
25	High Dimensional Model Representations Generated from Low Dimensional Data Samples. I. mp-Cut-HDMR. Journal of Mathematical Chemistry, 2001, 30, 1-30.	0.7	127
26	Determination of rate constants for butene isomerization by a temporal inversion method. Journal of Chemical Physics, 1997, 107, 2845-2852.	1.2	2
27	A special singular perturbation method for kinetic model reduction: With application to an H2/O2 oxidation model. Journal of Chemical Physics, 1996, 105, 4065-4075.	1.2	9
28	A lumped model for H2/O2 oxidation in the oscillatory regime. Journal of Chemical Physics, 1995, 102, 7006-7016.	1.2	6