

Genyuan Li

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/9371023/publications.pdf>

Version: 2024-02-01

28
papers

1,814
citations

516710

16
h-index

526287

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.	2.7	2
2	Molecular discovery by optimal sequential search. Journal of Mathematical Chemistry, 2019, 57, 2110-2141.	1.5	0
3	High efficiency classification of children with autism spectrum disorder. PLoS ONE, 2018, 13, e0192867.	2.5	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.	1.5	10
5	Relationship between sensitivity indices defined by variance- and covariance-based methods. Reliability Engineering and System Safety, 2017, 167, 136-157.	8.9	34
6	Sparse and nonnegative sparse D-MORPH regression. Journal of Mathematical Chemistry, 2015, 53, 1885-1914.	1.5	4
7	Experimental Design of Formulations Utilizing High Dimensional Model Representation. Journal of Physical Chemistry A, 2015, 119, 8237-8249.	2.5	8
8	Analytical HDMR formulas for functions expressed as quadratic polynomials with a multivariate normal distribution. Journal of Mathematical Chemistry, 2014, 52, 2052-2073.	1.5	8
9	D-MORPH regression for modeling with fewer unknown parameters than observation data. Journal of Mathematical Chemistry, 2012, 50, 1747-1764.	1.5	32
10	A scalable algorithm for molecular property estimation in high dimensional scaffold-based libraries. Journal of Mathematical Chemistry, 2012, 50, 1765-1790.	1.5	5
11	General formulation of HDMR component functions with independent and correlated variables. Journal of Mathematical Chemistry, 2012, 50, 99-130.	1.5	108
12	Enhancing molecular discovery using descriptor-free rearrangement clustering techniques for sparse data sets. AIChE Journal, 2010, 56, 405-418.	3.6	1
13	Global Sensitivity Analysis for Systems with Independent and/or Correlated Inputs. Journal of Physical Chemistry A, 2010, 114, 6022-6032.	2.5	183
14	D-MORPH regression: application to modeling with unknown parameters more than observation data. Journal of Mathematical Chemistry, 2010, 48, 1010-1035.	1.5	51
15	Regularized random-sampling high dimensional model representation (RS-HDMR). Journal of Mathematical Chemistry, 2008, 43, 1207-1232.	1.5	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.	2.5	158
17	Ratio control variate method for efficiently determining high-dimensional model representations. Journal of Computational Chemistry, 2006, 27, 1112-1118.	3.3	32
18	Multicut-HDMR with an application to an ionospheric model. Journal of Computational Chemistry, 2004, 25, 1149-1156.	3.3	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.	3.3	38
20	High-dimensional model representations generated from low order terms?lp-RS-HDMR. Journal of Computational Chemistry, 2003, 24, 647-656.	3.3	30
21	Random Sampling~High Dimensional Model Representation (RS~HDMR) with Nonuniformly Distributed Variables:~Application to an Integrated Multimedia/Multipathway Exposure and Dose Model for Trichloroethylene. Journal of Physical Chemistry A, 2003, 107, 4707-4716.	2.5	68
22	Practical Approaches To Construct RS-HDMR Component Functions. Journal of Physical Chemistry A, 2002, 106, 8721-8733.	2.5	234
23	Global uncertainty assessments by high dimensional model representations (HDMR). Chemical Engineering Science, 2002, 57, 4445-4460.	3.8	157
24	High Dimensional Model Representations. Journal of Physical Chemistry A, 2001, 105, 7765-7777.	2.5	403
25	High Dimensional Model Representations Generated from Low Dimensional Data Samples. I. mp-Cut-HDMR. Journal of Mathematical Chemistry, 2001, 30, 1-30.	1.5	127
26	Determination of rate constants for butene isomerization by a temporal inversion method. Journal of Chemical Physics, 1997, 107, 2845-2852.	3.0	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.	3.0	9
28	A lumped model for H2/O2 oxidation in the oscillatory regime. Journal of Chemical Physics, 1995, 102, 7006-7016.	3.0	6