

# Genyuan Li

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | High Dimensional Model Representations. <i>Journal of Physical Chemistry A</i> , 2001, 105, 7765-7777.   | 1.1 | 403       |
| 2  | Practical Approaches To Construct RS-HDMR Component Functions. <i>Journal of Physical Chemistry A</i> , 2002, 106, 8721-8733.  | 1.1 | 234       |
| 3  | Global Sensitivity Analysis for Systems with Independent and/or Correlated Inputs. <i>Journal of Physical Chemistry A</i> , 2010, 114, 6022-6032.  | 1.1 | 183       |
| 4  | Random Sampling-High Dimensional Model Representation (RS-HDMR) and Orthogonality of Its Different Order Component Functions. <i>Journal of Physical Chemistry A</i> , 2006, 110, 2474-2485.   | 1.1 | 158       |
| 5  | Global uncertainty assessments by high dimensional model representations (HDMR). <i>Chemical Engineering Science</i> , 2002, 57, 4445-4460.  | 1.9 | 157       |
| 6  | High Dimensional Model Representations Generated from Low Dimensional Data Samples. I. mp-Cut-HDMR. <i>Journal of Mathematical Chemistry</i> , 2001, 30, 1-30.   | 0.7 | 127       |
| 7  | General formulation of HDMR component functions with independent and correlated variables. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 99-130.  | 0.7 | 108       |
| 8  | Random Sampling~High Dimensional Model Representation (RS~HDMR) with Nonuniformly Distributed Variables:~ Application to an Integrated Multimedia/Multipathway Exposure and Dose Model for Trichloroethylene. <i>Journal of Physical Chemistry A</i> , 2003, 107, 4707-4716. | 1.1 | 68        |
| 9  | Regularized random-sampling high dimensional model representation (RS-HDMR). <i>Journal of Mathematical Chemistry</i> , 2008, 43, 1207-1232.   | 0.7 | 59        |
| 10 | D-MORPH regression: application to modeling with unknown parameters more than observation data. <i>Journal of Mathematical Chemistry</i> , 2010, 48, 1010-1035.  | 0.7 | 51        |
| 11 | Correlation method for variance reduction of Monte Carlo integration in RS-HDMR. <i>Journal of Computational Chemistry</i> , 2003, 24, 277-283.  | 1.5 | 38        |
| 12 | Relationship between sensitivity indices defined by variance- and covariance-based methods. <i>Reliability Engineering and System Safety</i> , 2017, 167, 136-157.   | 5.1 | 34        |
| 13 | Multicut-HDMR with an application to an ionospheric model. <i>Journal of Computational Chemistry</i> , 2004, 25, 1149-1156.  | 1.5 | 32        |
| 14 | Ratio control variate method for efficiently determining high-dimensional model representations. <i>Journal of Computational Chemistry</i> , 2006, 27, 1112-1118.  | 1.5 | 32        |
| 15 | D-MORPH regression for modeling with fewer unknown parameters than observation data. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1747-1764.   | 0.7 | 32        |
| 16 | High-dimensional model representations generated from low order terms?lp-RS-HDMR. <i>Journal of Computational Chemistry</i> , 2003, 24, 647-656.   | 1.5 | 30        |
| 17 | High efficiency classification of children with autism spectrum disorder. <i>PLoS ONE</i> , 2018, 13, e0192867.  | 1.1 | 13        |
| 18 | High dimensional model representation constructed by support vector regression. I. Independent variables with known probability distributions. <i>Journal of Mathematical Chemistry</i> , 2017, 55, 278-303.   | 0.7 | 10        |

| #  | ARTICLE   | IF  | CITATIONS |
|----|---|-----|-----------|
| 19 | A special singular perturbation method for kinetic model reduction: With application to an H <sub>2</sub> /O <sub>2</sub> oxidation model. <i>Journal of Chemical Physics</i> , 1996, 105, 4065-4075. | 1.2 | 9         |
| 20 | Analytical HDMR formulas for functions expressed as quadratic polynomials with a multivariate normal distribution. <i>Journal of Mathematical Chemistry</i> , 2014, 52, 2052-2073.                    | 0.7 | 8         |
| 21 | Experimental Design of Formulations Utilizing High Dimensional Model Representation. <i>Journal of Physical Chemistry A</i> , 2015, 119, 8237-8249.   | 1.1 | 8         |
| 22 | A lumped model for H <sub>2</sub> /O <sub>2</sub> oxidation in the oscillatory regime. <i>Journal of Chemical Physics</i> , 1995, 102, 7006-7016.   | 1.2 | 6         |
| 23 | A scalable algorithm for molecular property estimation in high dimensional scaffold-based libraries. <i>Journal of Mathematical Chemistry</i> , 2012, 50, 1765-1790.                                  | 0.7 | 5         |
| 24 | Sparse and nonnegative sparse D-MORPH regression. <i>Journal of Mathematical Chemistry</i> , 2015, 53, 1885-1914.   | 0.7 | 4         |
| 25 | Determination of rate constants for butene isomerization by a temporal inversion method. <i>Journal of Chemical Physics</i> , 1997, 107, 2845-2852.   | 1.2 | 2         |
| 26 | Global Sensitivity Analysis with Mixtures: A Generalized Functional ANOVA Approach. <i>Risk Analysis</i> , 2022, 42, 304-333.   | 1.5 | 2         |
| 27 | Enhancing molecular discovery using descriptor-free rearrangement clustering techniques for sparse data sets. <i>AIChE Journal</i> , 2010, 56, 405-418.   | 1.8 | 1         |
| 28 | Molecular discovery by optimal sequential search. <i>Journal of Mathematical Chemistry</i> , 2019, 57, 2110-2141.   | 0.7 | 0         |