

The Wiener--Askey Polynomial Chaos for Stochastic Diff

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Citation Report

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1870	Propagating Uncertainty in Power System Dynamic Simulations Using Polynomial Chaos. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 338-348.	4.6	65
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1872	Application of Stochastic Collocation on Eigenfrequencies Analysis of a Rotor-Bearing System. <i>Mechanisms and Machine Science</i> , 2019, , 416-430.	0.3	0
1873	Numerical solutions of stochastic PDEs driven by arbitrary type of noise. <i>Stochastics and Partial Differential Equations: Analysis and Computations</i> , 2019, 7, 1-39.	0.5	0
1874	Reliability-based lifecycle management for corroding pipelines. <i>Structural Safety</i> , 2019, 76, 1-14.	2.8	30

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1876	Global sensitivity analysis with a hierarchical sparse metamodeling method. <i>Mechanical Systems and Signal Processing</i> , 2019, 115, 769-781.	4.4	12
1877	Efficient method for variance-based sensitivity analysis. <i>Reliability Engineering and System Safety</i> , 2019, 181, 97-115.	5.1	8
1878	Active Polynomial Chaos Expansion for Reliability-Based Design Optimization. <i>AIAA Journal</i> , 2019, 57, 5431-5446.	1.5	23
1879	A Weighted POD Method for Elliptic PDEs with Random Inputs. <i>Journal of Scientific Computing</i> , 2019, 81, 136-153.	1.1	17
1880	Moment-Based Importance Analysis of Structure Performance Functions Under Mixed Uncertainties. <i>IEEE Access</i> , 2019, 7, 24489-24497.	2.6	1
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1882	Identification of the Area of Vulnerability to Voltage Sags Based on Galerkin Method. <i>Electric Power Components and Systems</i> , 2019, 47, 345-356.	1.0	0
1883	Sensitivity analysis and uncertainties quantification on a DSMC code with chemical reactions. <i>AIP Conference Proceedings</i> , 2019, , .	0.3	0
1884	Stochastic response analysis of elastic and inelastic systems with uncertain parameters under random impulse loading. <i>Journal of Sound and Vibration</i> , 2019, 461, 114899.	2.1	11
1885	Uncertainty Quantification of Non-Dimensional Parameters for a Film Cooling Configuration in Supersonic Conditions. <i>Fluids</i> , 2019, 4, 155.	0.8	3
1886	Random dynamical system in time domain: A POD-PC model. <i>Mechanical Systems and Signal Processing</i> , 2019, 133, 106251.	4.4	22
1887	Parameters identification of cable stayed footbridges using Bayesian inference. <i>Meccanica</i> , 2019, 54, 1403-1419.	1.2	20
1888	Uncertainties in dynamic response of buildings with non-linear base-isolators. <i>Engineering Structures</i> , 2019, 197, 109423.	2.6	13
1889	Model order reduction for random nonlinear dynamical systems and low-dimensional representations for their quantities of interest. <i>Mathematics and Computers in Simulation</i> , 2019, 166, 76-92.	2.4	5
1890	Uncertainty Study of Periodic-Grating Wideband Filters With Sparse Polynomial-Chaos Expansions. <i>IEEE Photonics Technology Letters</i> , 2019, 31, 1499-1502.	1.3	6
1891	Introductory overview of identifiability analysis: A guide to evaluating whether you have the right type of data for your modeling purpose. <i>Environmental Modelling and Software</i> , 2019, 119, 418-432.	1.9	93
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1895	A Bramble–Pasciak Conjugate Gradient Method for Discrete Stokes Equations with Random Viscosity. SIAM-ASA Journal on Uncertainty Quantification, 2019, 7, 787-805.	1.1	3
1896	Quantification of predictive uncertainty with a metamodel: toward more efficient hydrologic simulations. Stochastic Environmental Research and Risk Assessment, 2019, 33, 1453-1476.	1.9	15
1897	Data assimilation for models with parametric uncertainty. Journal of Computational Physics, 2019, 396, 785-798.	1.9	0
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1901	Quantifying total uncertainty in physics-informed neural networks for solving forward and inverse stochastic problems. Journal of Computational Physics, 2019, 397, 108850.	1.9	212
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1903	On the implementation of generalized polynomial chaos in dynamic optimization under stochastic uncertainty: a user perspective. Computer Aided Chemical Engineering, 2019, 46, 541-546.	0.3	0
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1906	Robust multiphase topology optimization accounting for manufacturing uncertainty via stochastic collocation. Structural and Multidisciplinary Optimization, 2019, 60, 2461-2476.	1.7	10
1907	A Statistical Parsimony Method for Uncertainty Quantification of FDTD Computation Based on the PCA and Ridge Regression. IEEE Transactions on Antennas and Propagation, 2019, 67, 4726-4737.	3.1	15
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1909	Multi-scale stochastic dynamic response analysis of offshore risers with lognormal uncertainties. Ocean Engineering, 2019, 189, 106333.	1.9	8
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1913	Uncertainty quantification of planetary entry technologies. <i>Progress in Aerospace Sciences</i> , 2019, 111, 100574.	6.3	11
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1915	Multiscale Modeling of Dyadic Structure-Function Relation in Ventricular Cardiac Myocytes. <i>Biophysical Journal</i> , 2019, 117, 2409-2419.	0.2	8
1916	Parallel Space-Mapping Based Yield-Driven EM Optimization Incorporating Trust Region Algorithm and Polynomial Chaos Expansion. <i>IEEE Access</i> , 2019, 7, 143673-143683.	2.6	26
1917	Fast Uncertainty Quantification in Low Frequency Electromagnetic Problems by an Integral Equation Method Based on Hierarchical Matrix Compression. <i>IEEE Access</i> , 2019, 7, 163919-163932.	2.6	4
1918	An observation-driven time-dependent basis for a reduced description of transient stochastic systems. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2019, 475, 20190506.	1.0	9
1919	Deep convolutional neural networks for uncertainty propagation in random fields. <i>Computer-Aided Civil and Infrastructure Engineering</i> , 2019, 34, 1043-1054.	6.3	17
1920	A Low-Rank Solver for the Navier-Stokes Equations with Uncertain Viscosity. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2019, 7, 1275-1300.	1.1	8
1921	Gaussian Quadrature and Polynomial Approximation for One-Dimensional Ridge Functions. <i>SIAM Journal of Scientific Computing</i> , 2019, 41, S106-S128.	1.3	1
1922	Rare Event Chance-Constrained Optimal Control Using Polynomial Chaos and Subset Simulation. <i>Processes</i> , 2019, 7, 185.	1.3	7
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1924	Stochastic Expansions Including Data on the Unit Circle. <i>Journal of Guidance, Control, and Dynamics</i> , 2019, 42, 2741-2746.	1.6	1
1925	Making inertial confinement fusion models more predictive. <i>Physics of Plasmas</i> , 2019, 26, .	0.7	47
1926	A Machine-Learning-Based Epistemic Modeling Framework for Textile Antenna Design. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 2292-2296.	2.4	14
1927	Spectral Stochastic FEM for Uncertainty Quantification Due to Multiple Dielectric Variabilities. <i>IEEE Antennas and Wireless Propagation Letters</i> , 2019, 18, 1961-1965.	2.4	11
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1930	Inverse Stochastic Quadcopter Trajectory Generation using Flat Inverse Dynamics and Polynomial Chaos Uncertainty Propagation. , 2019, , .		1
1931	Efficient Computation of High-Order Electromagnetic Field Derivatives for Multiple Design Parameters in FDTD. <i>IEEE Transactions on Microwave Theory and Techniques</i> , 2019, 67, 4069-4083.	2.9	4
1932	On the Importance of the Jacobian Determinant in Parameter Inference for Random Parameter and Random Measurement Error Models. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2019, 7, 975-1006.	1.1	4
1933	A polynomial chaos expanded hybrid fuzzy-stochastic model for transversely fiber reinforced plastics. <i>Mathematics and Mechanics of Complex Systems</i> , 2019, 7, 99-129.	0.5	3
1934	A Study of Hyperbolicity of Kinetic Stochastic Galerkin System for the Isentropic Euler Equations with Uncertainty. <i>Chinese Annals of Mathematics Series B</i> , 2019, 40, 765-780.	0.2	10
1935	Reliability Analysis of a Hypersonic Vehicle Panel with Spatio-Temporal Variability. <i>AIAA Journal</i> , 2019, 57, 5403-5415.	1.5	4
1936	Uncertainty quantification in Eulerianâ€“Lagrangian simulations of (point-)particle-laden flows with data-driven and empirical forcing models. <i>International Journal of Multiphase Flow</i> , 2019, 121, 103114.	1.6	5
1937	Parametric uncertainty assessment in hydrological modeling using the generalized polynomial chaos expansion. <i>Journal of Hydrology</i> , 2019, 579, 124158.	2.3	15
1938	Stochastic sensitivity analysis of numerical simulations of injector internal flows to cavitation modeling parameters. <i>Computers and Fluids</i> , 2019, 183, 130-147.	1.3	5
1939	Data-driven polynomial chaos expansions: A weighted least-square approximation. <i>Journal of Computational Physics</i> , 2019, 381, 129-145.	1.9	17
1940	Uncertainty-Aware Computational Tools for Power Distribution Networks Including Electrical Vehicle Charging and Load Profiles. <i>IEEE Access</i> , 2019, 7, 9357-9367.	2.6	35
1941	An iterative dimension-by-dimension method for structural interval response prediction with multidimensional uncertain variables. <i>Aerospace Science and Technology</i> , 2019, 86, 572-581.	2.5	59
1942	Probabilistic Power Flow Calculation Using Non-Intrusive Low-Rank Approximation Method. <i>IEEE Transactions on Power Systems</i> , 2019, 34, 3014-3025.	4.6	41
1943	Hybrid Fixed-Point Fixed-Stress Splitting Method for Linear Poroelasticity. <i>Geosciences (Switzerland)</i> , 2019, 9, 29.	1.0	1
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1946	An efficient solver for cumulative density function-based solutions of uncertain kinematic wave models. <i>Journal of Computational Physics</i> , 2019, 382, 138-151.	1.9	2

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1949	Global optimal polynomial approximation for parametric problems in power systems. <i>Journal of Modern Power Systems and Clean Energy</i> , 2019, 7, 500-511.	3.3	3
1950	An efficient and robust adaptive sampling method for polynomial chaos expansion in sparse Bayesian learning framework. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 352, 654-674.	3.4	21
1951	Threshold shift method for reliability-based design optimization. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 2053-2072.	1.7	20
1952	A second order SAP algorithm for risk and reliability based design optimization. <i>Reliability Engineering and System Safety</i> , 2019, 190, 106499.	5.1	18
1953	A new surrogate modeling method combining polynomial chaos expansion and Gaussian kernel in a sparse Bayesian learning framework. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 120, 498-516.	1.5	7
1954	Predicting CO ₂ Plume Migration in Heterogeneous Formations Using Conditional Deep Convolutional Generative Adversarial Network. <i>Water Resources Research</i> , 2019, 55, 5830-5851.	1.7	105
1955	The Effect of Correlated Kinetic Parameters on (Bio)Chemical Reaction Networks. <i>Chemie-Ingenieur-Technik</i> , 2019, 91, 632-636.	0.4	0
1956	Stochastic dynamic analysis of composite plate with random temperature increment. <i>Composite Structures</i> , 2019, 226, 111159.	3.1	20
1957	Enabling UQ for Complex Modelling Workflows. <i>Lecture Notes in Computer Science</i> , 2019, , 269-281.	1.0	1
1958	Uncertainty quantification in three dimensional natural convection using polynomial chaos expansion and deep neural networks. <i>International Journal of Heat and Mass Transfer</i> , 2019, 139, 613-631.	2.5	14
1959	Robust trajectory optimization using polynomial chaos and convex optimization. <i>Aerospace Science and Technology</i> , 2019, 92, 314-325.	2.5	33
1960	Hyperbolic stochastic Galerkin formulation for the p-system. <i>Journal of Computational Physics</i> , 2019, 395, 186-204.	1.9	17
1961	Intrusive polynomial chaos approach for stochastic problems with axial symmetry. <i>IET Microwaves, Antennas and Propagation</i> , 2019, 13, 782-788.	0.7	3
1962	Uncertainty quantification and minimization. <i>Computer Aided Chemical Engineering</i> , 2019, 45, 723-762.	0.3	6
1963	Free and forced vibration analysis of moderately thick plates with uncertain material properties using the Chaotic Radial Basis Function. <i>Engineering Analysis With Boundary Elements</i> , 2019, 106, 349-358.	2.0	3
1964	Adversarial uncertainty quantification in physics-informed neural networks. <i>Journal of Computational Physics</i> , 2019, 394, 136-152.	1.9	210

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1966	On the Development of an Efficient Surrogate Model for Predicting Long-Term Extreme Loads on a Wave Energy Converter. <i>Journal of Offshore Mechanics and Arctic Engineering</i> , 2019, 141, .	0.6	9
1967	Online Tools for Uncertainty Quantification in nanoHUB. <i>Jom</i> , 2019, 71, 2635-2645.	0.9	1
1968	Model-data fusion for spatial and statistical characterization of soil parameters from geophysical measurements. <i>Soil Dynamics and Earthquake Engineering</i> , 2019, 124, 35-57.	1.9	10
1969	Quantifying uncertainty in the process-structure relationship for Al-Cu solidification. <i>Modelling and Simulation in Materials Science and Engineering</i> , 2019, 27, 064005.	0.8	14
1970	Meta-Model based High-Dimensional Yield Analysis using Low-Rank Tensor Approximation. , 2019, , .		16
1971	Phase driven study for stochastic linear multi-dofs dynamic response. <i>Mechanical Systems and Signal Processing</i> , 2019, 129, 717-740.	4.4	3
1972	Certified Offline-Free Reduced Basis (COFRB) Methods for Stochastic Differential Equations Driven by Arbitrary Types of Noise. <i>Journal of Scientific Computing</i> , 2019, 81, 1210-1239.	1.1	2
1973	A deep learning solution approach for high-dimensional random differential equations. <i>Probabilistic Engineering Mechanics</i> , 2019, 57, 14-25.	1.3	55
1974	A multidisciplinary approach to calibrating advanced numerical simulations of masonry arch bridges. <i>Mechanical Systems and Signal Processing</i> , 2019, 129, 337-365.	4.4	29
1975	Influence of mechanical uncertainties on dynamic responses of a full-scale all-FRP footbridge. <i>Composite Structures</i> , 2019, 223, 110964.	3.1	13
1976	Bayesian modeling of inconsistent plastic response due to material variability. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 353, 183-200.	3.4	7
1977	Uncertainty Quantification of a Coupled Model for Wind Prediction at a Wind Farm in Japan. <i>Energies</i> , 2019, 12, 1505.	1.6	5
1978	Efficient Uncertainty Assessment in EM Problems via Dimensionality Reduction of Polynomial-Chaos Expansions. <i>Technologies</i> , 2019, 7, 37.	3.0	2
1979	Finite volume simulation framework for die casting with uncertainty quantification. <i>Applied Mathematical Modelling</i> , 2019, 74, 132-150.	2.2	13
1980	Performance impact of flow and geometric variations for a turbine blade using an adaptive NIPC method. <i>Aerospace Science and Technology</i> , 2019, 90, 127-139.	2.5	26
1981	On Nonintrusive Uncertainty Quantification and Surrogate Model Construction in Particle Accelerator Modeling. <i>SIAM-ASA Journal on Uncertainty Quantification</i> , 2019, 7, 383-416.	1.1	24
1982	Quantification of model uncertainty in RANS simulations: A review. <i>Progress in Aerospace Sciences</i> , 2019, 108, 1-31.	6.3	228

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1987	A Hybrid Methodology for Jitter and Eye Estimation in High-Speed Serial Channels Using Polynomial Chaos Surrogate Models. IEEE Access, 2019, 7, 53629-53640.	2.6	7
1988	PC Translation Models for Random Vectors and Multivariate Extremes. SIAM Journal of Scientific Computing, 2019, 41, A1228-A1251.	1.3	1
1989	Sensitivity analysis for the mechanics of tendons and ligaments: Investigation on the effects of collagen structural properties via a multiscale modeling approach. International Journal for Numerical Methods in Biomedical Engineering, 2019, 35, e3209.	1.0	24
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1993	Uncertainty quantification of nonlinear distributed parameter systems using generalized polynomial chaos. Automatisierungstechnik, 2019, 67, 283-303.	0.4	0
1994	Polynomial chaos expansion and response surface method for nonlinear modelling of reference evapotranspiration. Hydrological Sciences Journal, 2019, 64, 720-730.	1.2	15
1995	Electromagnetic Uncertainty Analysis Using Stochastic FDFD Method. IEEE Transactions on Antennas and Propagation, 2019, 67, 3268-3277.	3.1	13
1996	Effects of left ventricle wall thickness uncertainties on cardiac mechanics. Biomechanics and Modeling in Mechanobiology, 2019, 18, 1415-1427.	1.4	18
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1998	Issues in Deciding Whether to Use Multifidelity Surrogates. AIAA Journal, 2019, 57, 2039-2054.	1.5	127
1999	Nonlinear magnetoquasistatic interface problem in a permanent-magnet machine with stochastic partial differential equation constraints. Engineering Optimization, 2019, 51, 2169-2192.	1.5	3
2000	Probabilistic Power Flow Calculation and Variance Analysis Based on Hierarchical Adaptive Polynomial Chaos-ANOVA Method. IEEE Transactions on Power Systems, 2019, 34, 3316-3325.	4.6	43

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2003	A sample-based approach to estimate the dynamic loads of components with nonlinear uncertain interfaces. <i>Aerospace Science and Technology</i> , 2019, 87, 369-378.	2.5	3
2004	Efficient Stochastic Galerkin Methods for Maxwell's Equations with Random Inputs. <i>Journal of Scientific Computing</i> , 2019, 80, 248-267.	1.1	6
2005	Collision-Avoidance Reliability Analysis of Automated Vehicle Based on Adaptive Surrogate Modeling. <i>ASCE-ASME Journal of Risk and Uncertainty in Engineering Systems, Part B: Mechanical Engineering</i> , 2019, 5, .	0.7	6
2006	Locally Refined Adaptive Sparse Surrogate-Based Approach for Uncertainty Quantification. <i>Journal of Engineering Mechanics - ASCE</i> , 2019, 145, .	1.6	1
2007	Some greedy algorithms for sparse polynomial chaos expansions. <i>Journal of Computational Physics</i> , 2019, 387, 303-325.	1.9	18
2008	Analysis of a Polynomial Chaos-Kriging Metamodel for Uncertainty Quantification in Aerodynamics. <i>AIAA Journal</i> , 2019, 57, 2280-2296.	1.5	16
2009	Input design for active fault diagnosis. <i>Annual Reviews in Control</i> , 2019, 47, 35-50.	4.4	52
2010	A data-driven framework for sparsity-enhanced surrogates with arbitrary mutually dependent randomness. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 350, 199-227.	3.4	6
2011	Uncertainty analysis of impact of geometric variations on turbine blade performance. <i>Energy</i> , 2019, 176, 67-80.	4.5	43
2012	PLS-based adaptation for efficient PCE representation in high dimensions. <i>Journal of Computational Physics</i> , 2019, 387, 186-204.	1.9	34
2013	Deep Autoregressive Neural Networks for High-Dimensional Inverse Problems in Groundwater Contaminant Source Identification. <i>Water Resources Research</i> , 2019, 55, 3856-3881.	1.7	157
2014	Asymptotic convergence of spectral inverse iterations for stochastic eigenvalue problems. <i>Numerische Mathematik</i> , 2019, 142, 577-609.	0.9	6
2015	Systematic study of accuracy of wall-modeled large eddy simulation using uncertainty quantification techniques. <i>Computers and Fluids</i> , 2019, 185, 34-58.	1.3	21
2016	Statistical Evaluation of Radiofrequency Exposure during Magnetic Resonant Imaging: Application of Whole-Body Individual Human Model and Body Motion in the Coil. <i>International Journal of Environmental Research and Public Health</i> , 2019, 16, 1069.	1.2	9
2017	Evidence-theory-based uncertain parameter identification method for mechanical systems with imprecise information. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 351, 281-296.	3.4	16
2018	Surrogate-based uncertainty and sensitivity analysis for bacterial invasion in multi-species biofilm modeling. <i>Communications in Nonlinear Science and Numerical Simulation</i> , 2019, 73, 403-424.	1.7	4

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2020	Deep Convolutional Encoder-Decoder Networks for Uncertainty Quantification of Dynamic Multiphase Flow in Heterogeneous Media. <i>Water Resources Research</i> , 2019, 55, 703-728.	1.7	201
2021	Robust LQR design for systems with probabilistic uncertainty. <i>International Journal of Robust and Nonlinear Control</i> , 2019, 29, 3217-3237.	2.1	13
2022	Polynomial chaos expansions for dependent random variables. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 351, 643-666.	3.4	49
2023	Systems of Gaussian process models for directed chains of solvers. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 352, 32-55.	3.4	10
2024	Uncertainty quantification and global sensitivity analysis for economic models. <i>Quantitative Economics</i> , 2019, 10, 1-41.	0.9	23
2025	Enhancing piecewise-defined surrogate response surfaces with adjoints on sets of unstructured samples to solve stochastic inverse problems. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 119, 923-940.	1.5	1
2026	A new bifidelity model reduction method for Bayesian inverse problems. <i>International Journal for Numerical Methods in Engineering</i> , 2019, 119, 941-963.	1.5	5
2027	Modeling fault activation due to fluid production: Bayesian update by seismic data. <i>Computational Geosciences</i> , 2019, 23, 705-722.	1.2	5
2028	Data-driven polynomial chaos expansion for machine learning regression. <i>Journal of Computational Physics</i> , 2019, 388, 601-623.	1.9	89
2029	Uncertainty quantification of shock-bubble interaction simulations. <i>Shock Waves</i> , 2019, 29, 1191-1204.	1.0	2
2030	Influence of stochastic perturbations of composite laminate layups on the aeroelastic flutter of a cantilevered plate wing. <i>Composite Structures</i> , 2019, 220, 809-826.	3.1	5
2031	An expanded sparse Bayesian learning method for polynomial chaos expansion. <i>Mechanical Systems and Signal Processing</i> , 2019, 128, 153-171.	4.4	16
2032	Robust Design of Multicomponent Working Fluid for Organic Rankine Cycle. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4154-4167.	1.8	7
2033	M-PCM-OFFD: An effective output statistics estimation method for systems of high dimensional uncertainties subject to low-order parameter interactions. <i>Mathematics and Computers in Simulation</i> , 2019, 159, 93-118.	2.4	7
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