

# Clayton G Webster

## List of Publications by Year in descending order

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46  
papers

2,159  
citations

623574

14  
h-index

395590

33  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1230  
citing authors



#	ARTICLE	IF	CITATIONS
19	Compressed Sensing Approaches for Polynomial Approximation of High-Dimensional Functions. Applied and Numerical Harmonic Analysis, 2017, , 93-124.	0.1	56
20	An improved multilevel Monte Carlo method for estimating probability distribution functions in stochastic oil reservoir simulations. Water Resources Research, 2016, 52, 9642-9660.	1.7	25
21	Hyperspherical Sparse Approximation Techniques for High-Dimensional Discontinuity Detection. SIAM Review, 2016, 58, 517-551.	4.2	18
22	A dynamically adaptive sparse grids method for quasi-optimal interpolation of multidimensional functions. Computers and Mathematics With Applications, 2016, 71, 2449-2465.	1.4	39
23	Explicit cost bounds of stochastic Galerkin approximations for parameterized PDEs with random coefficients. Computers and Mathematics With Applications, 2016, 71, 2231-2256.	1.4	7
24	Numerical methods for a class of nonlocal diffusion problems with the use of backward SDEs. Computers and Mathematics With Applications, 2016, 71, 2479-2496.	1.4	5
25	A Sparse Grid Method for Bayesian Uncertainty Quantification with Application to Large Eddy Simulation Turbulence Models. Lecture Notes in Computational Science and Engineering, 2016, , 291-313.	0.1	3
26	AN EFFICIENT MESH-FREE IMPLICIT FILTER FOR NONLINEAR FILTERING PROBLEMS. , 2016, 6, 19-33.		0
27	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2015, , 1-46.		0
28	A Multilevel Stochastic Collocation Method for Partial Differential Equations with Random Input Data. SIAM-ASA Journal on Uncertainty Quantification, 2015, 3, 1046-1074.	1.1	75
29	A GRADIENT-BASED SAMPLING APPROACH FOR DIMENSION REDUCTION OF PARTIAL DIFFERENTIAL EQUATIONS WITH STOCHASTIC COEFFICIENTS. , 2015, 5, 49-72.		10
30	A Hyperspherical Adaptive Sparse-Grid Method for High-Dimensional Discontinuity Detection. SIAM Journal on Numerical Analysis, 2015, 53, 1508-1536.	1.1	11
31	Numerical Analysis of Fixed Point Algorithms in the Presence of Hardware Faults. SIAM Journal of Scientific Computing, 2015, 37, C532-C553.	1.3	13
32	A multilevel stochastic collocation method for SPDEs. AIP Conference Proceedings, 2015, , .	0.3	2
33	An adaptive sparse-grid iterative ensemble Kalman filter approach for parameter field estimation. International Journal of Computer Mathematics, 2014, 91, 798-817.	1.0	9
34	Stochastic finite element methods for partial differential equations with random input data. Acta Numerica, 2014, 23, 521-650.	6.3	156
35	A Hybrid Sparse-Grid Approach for Nonlinear Filtering Problems Based on Adaptive-Domain of the Zakai Equation Approximations. SIAM-ASA Journal on Uncertainty Quantification, 2014, 2, 784-804.	1.1	14
36	Application of High Performance Computing for Simulating the Unstable Dynamics of Dilute Spark-Ignited Combustion. Understanding Complex Systems, 2014, , 259-270.	0.3	4

#	ARTICLE	IF	CITATIONS
37	An Adaptive Wavelet Stochastic Collocation Method for Irregular Solutions of Partial Differential Equations with Random Input Data. Lecture Notes in Computational Science and Engineering, 2014, , 137-170.	0.1	15
38	An adaptive sparse-grid high-order stochastic collocation method for Bayesian inference in groundwater reactive transport modeling. Water Resources Research, 2013, 49, 6871-6892.	1.7	72
39	Uncertainty quantification techniques for population density estimates derived from sparse open source data. , 2013, , .		2
40	An efficient surrogate modeling approach in Bayesian uncertainty analysis. , 2013, , .		0
41	Evaluation of Non-Intrusive Approaches for Wiener-Askey Generalized Polynomial Chaos. , 2008, , .		100
42	Design Under Uncertainty Employing Stochastic Expansion Methods. , 2008, , .		22
43	A Sparse Grid Stochastic Collocation Method for Partial Differential Equations with Random Input Data. SIAM Journal on Numerical Analysis, 2008, 46, 2309-2345.	1.1	819
44	An Anisotropic Sparse Grid Stochastic Collocation Method for Partial Differential Equations with Random Input Data. SIAM Journal on Numerical Analysis, 2008, 46, 2411-2442.	1.1	426
45	On the Strong Convergence of Forward-Backward Splitting in Reconstructing Jointly Sparse Signals. Set-Valued and Variational Analysis, 0, , 1.	0.5	0
46	Analysis of sparse recovery for Legendre expansions using envelope bound. Numerical Methods for Partial Differential Equations, 0, , .	2.0	0