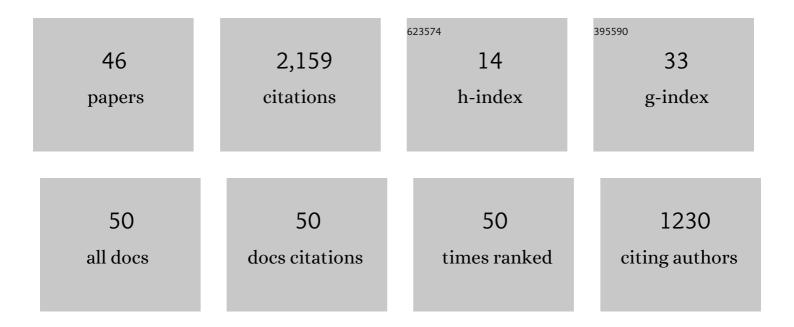
## Clayton G Webster

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	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
2	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
3	Stochastic finite element methods for partial differential equations with random input data. Acta Numerica, 2014, 23, 521-650.	6.3	156
4	Evaluation of Non-Intrusive Approaches for Wiener-Askey Generalized Polynomial Chaos. , 2008, , .		100
5	Polynomial approximation via compressed sensing of high-dimensional functions on lower sets. Mathematics of Computation, 2017, 87, 1415-1450.	1.1	81
6	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
7	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
8	Compressed Sensing Approaches for Polynomial Approximation of High-Dimensional Functions. Applied and Numerical Harmonic Analysis, 2017, , 93-124.	0.1	56
9	A class of null space conditions for sparse recovery via nonconvex, non-separable minimizations. Results in Applied Mathematics, 2019, 3, 100011.	0.5	48
10	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
11	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
12	Design Under Uncertainty Employing Stochastic Expansion Methods. , 2008, , .		22
13	Non-Intrusive Inference Reduced Order Model for Fluids Using Deep Multistep Neural Network. Mathematics, 2019, 7, 757.	1.1	22
14	Analysis of quasi-optimal polynomial approximations for parameterized PDEs with deterministic and stochastic coefficients. Numerische Mathematik, 2017, 137, 451-493.	0.9	19
15	Hyperspherical Sparse Approximation Techniques for High-Dimensional Discontinuity Detection. SIAM Review, 2016, 58, 517-551.	4.2	18
16	Closure Learning for Nonlinear Model Reduction Using Deep Residual Neural Network. Fluids, 2020, 5, 39.	0.8	15
17	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
18	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

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19	On the Lebesgue constant of weighted Leja points for Lagrange interpolation on unbounded domains. IMA Journal of Numerical Analysis, 2019, 39, 1039-1057.	1.5	14
20	Numerical Analysis of Fixed Point Algorithms in the Presence of Hardware Faults. SIAM Journal of Scientific Computing, 2015, 37, C532-C553.	1.3	13
21	Analysis of the ratio of â,,"1 and â,,"2 norms in compressed sensing. Applied and Computational Harmonic Analysis, 2021, 55, 486-511.	1.1	12
22	A Hyperspherical Adaptive Sparse-Grid Method for High-Dimensional Discontinuity Detection. SIAM Journal on Numerical Analysis, 2015, 53, 1508-1536.	1.1	11
23	Reduced basis methods for nonlocal diffusion problems with random input data. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 746-770.	3.4	11
24	A GRADIENT-BASED SAMPLING APPROACH FOR DIMENSION REDUCTION OF PARTIAL DIFFERENTIAL EQUATIONS WITH STOCHASTIC COEFFICIENTS. , 2015, 5, 49-72.		10
25	An asymptotically compatible probabilistic collocation method for randomly heterogeneous nonlocal problems. Journal of Computational Physics, 2022, 465, 111376.	1.9	10
26	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
27	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
28	A mixed <i>â""</i> <sub>1</sub> regularization approach for sparse simultaneous approximation of parameterized PDEs. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 2025-2045.	0.8	7
29	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
30	Reconstruction of jointly sparse vectors via manifold optimization. Applied Numerical Mathematics, 2019, 144, 140-150.	1.2	4
31	Application of High Performance Computing for Simulating the Unstable Dynamics of Dilute Spark-Ignited Combustion. Understanding Complex Systems, 2014, , 259-270.	0.3	4
32	Robust Learning with Implicit Residual Networks. Machine Learning and Knowledge Extraction, 2021, 3, 34-55.	3.2	4
33	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
34	Uncertainty quantification techniques for population density estimates derived from sparse open source data. , 2013, , .		2
35	A multilevel stochastic collocation method for SPDEs. AIP Conference Proceedings, 2015, , .	0.3	2
36	Evolve Filter Stabilization Reduced-Order Model for Stochastic Burgers Equation. Fluids, 2018, 3, 84.	0.8	2

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37	A surrogate modeling approach for crack pattern prediction in peridynamics. , 2017, , .		1
38	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2017, , 717-762.		1
39	A Nonlocal Feature-Driven Exemplar-Based Approach for Image Inpainting. SIAM Journal on Imaging Sciences, 2020, 13, 2140-2168.	1.3	1
40	An efficient surrogate modeling approach in Bayesian uncertainty analysis. , 2013, , .		0
41	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2015, , 1-46.		Ο
42	Reconstructing high-dimensional Hilbert-valued functions via compressed sensing. , 2019, , .		0
43	An Improved Discrete Least-Squares/Reduced-Basis Method for Parameterized Elliptic PDEs. Journal of Scientific Computing, 2019, 81, 76-91.	1.1	Ο
44	On the Strong Convergence of Forward-Backward Splitting in Reconstructing Jointly Sparse Signals. Set-Valued and Variational Analysis, 0, , 1.	0.5	0
45	AN EFFICIENT MESH-FREE IMPLICIT FILTER FOR NONLINEAR FILTERING PROBLEMS. , 2016, 6, 19-33.		Ο
46	Analysis of sparse recovery for Legendre expansions using envelope bound. Numerical Methods for Partial Differential Equations, 0, , .	2.0	0