Clayton G Webster

List of Publications by Year
in descending order

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46	2,159	623734	395702
papers	citations	14 h-index	33 g-index

50	50	50	1230
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	An asymptotically compatible probabilistic collocation method for randomly heterogeneous nonlocal problems. Journal of Computational Physics, 2022, 465, 111376.	3.8	10
2	Analysis of the ratio of â„“1 and â„“2 norms in compressed sensing. Applied and Computational Harmonic Analysis, 2021, 55, 486-511.	2.2	12
3	Robust Learning with Implicit Residual Networks. Machine Learning and Knowledge Extraction, 2021, 3, 34-55.	5.0	4
4	Closure Learning for Nonlinear Model Reduction Using Deep Residual Neural Network. Fluids, 2020, 5, 39.	1.7	15
5	A Nonlocal Feature-Driven Exemplar-Based Approach for Image Inpainting. SIAM Journal on Imaging Sciences, 2020, 13, 2140-2168.	2.2	1
6	Non-Intrusive Inference Reduced Order Model for Fluids Using Deep Multistep Neural Network. Mathematics, 2019, 7, 757.	2.2	22
7	A class of null space conditions for sparse recovery via nonconvex, non-separable minimizations. Results in Applied Mathematics, 2019, 3, 100011.	1.3	48
8	Reconstruction of jointly sparse vectors via manifold optimization. Applied Numerical Mathematics, 2019, 144, 140-150.	2.1	4
9	On the Lebesgue constant of weighted Leja points for Lagrange interpolation on unbounded domains. IMA Journal of Numerical Analysis, 2019, 39, 1039-1057.	2.9	14
10	Reconstructing high-dimensional Hilbert-valued functions via compressed sensing. , 2019, , .		0
11	A mixed â„“₁ regularization approach for sparse simultaneous approximation of parameterized PDEs. ESAIM: Mathematical Modelling and Numerical Analysis, 2019, 53, 2025-2045.	1.9	7
12	An Improved Discrete Least-Squares/Reduced-Basis Method for Parameterized Elliptic PDEs. Journal of Scientific Computing, 2019, 81, 76-91.	2.3	0
13	Evolve Filter Stabilization Reduced-Order Model for Stochastic Burgers Equation. Fluids, 2018, 3, 84.	1.7	2
14	A surrogate modeling approach for crack pattern prediction in peridynamics. , 2017, , .		1
15	Analysis of quasi-optimal polynomial approximations for parameterized PDEs with deterministic and stochastic coefficients. Numerische Mathematik, 2017, 137, 451-493.	1.9	19
16	Reduced basis methods for nonlocal diffusion problems with random input data. Computer Methods in Applied Mechanics and Engineering, 2017, 317, 746-770.	6.6	11
17	Polynomial approximation via compressed sensing of high-dimensional functions on lower sets. Mathematics of Computation, 2017, 87, 1415-1450.	2.1	81
18	Sparse Collocation Methods for Stochastic Interpolation and Quadrature. , 2017, , 717-762.		1

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19	Compressed Sensing Approaches for Polynomial Approximation of High-Dimensional Functions. Applied and Numerical Harmonic Analysis, 2017, , 93-124.	0.3	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.	4.2	25
21	Hyperspherical Sparse Approximation Techniques for High-Dimensional Discontinuity Detection. SIAM Review, 2016, 58, 517-551.	9.5	18
22	A dynamically adaptive sparse grids method for quasi-optimal interpolation of multidimensional functions. Computers and Mathematics With Applications, 2016, 71, 2449-2465.	2.7	39
23	Explicit cost bounds of stochastic Galerkin approximations for parameterized PDEs with random coefficients. Computers and Mathematics With Applications, 2016, 71, 2231-2256.	2.7	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.	2.7	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.	0.3	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.	2.0	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.	2.3	11
31	Numerical Analysis of Fixed Point Algorithms in the Presence of Hardware Faults. SIAM Journal of Scientific Computing, 2015, 37, C532-C553.	2.8	13
32	A multilevel stochastic collocation method for SPDEs. AIP Conference Proceedings, 2015, , .	0.4	2
33	An adaptive sparse-grid iterative ensemble Kalman filter approach for parameter field estimation. International Journal of Computer Mathematics, 2014, 91, 798-817.	1.8	9
34	Stochastic finite element methods for partial differential equations with random input data. Acta Numerica, 2014, 23, 521-650.	10.7	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.	2.0	14
36	Application of High Performance Computing for Simulating the Unstable Dynamics of Dilute Spark-Ignited Combustion. Understanding Complex Systems, 2014, , 259-270.	0.6	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.	0.3	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.	4.2	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.	2.3	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.	2.3	426
45	On the Strong Convergence of Forward-Backward Splitting in Reconstructing Jointly Sparse Signals. Set-Valued and Variational Analysis, 0, , 1.	1.1	0
46	Analysis of sparse recovery for Legendre expansions using envelope bound. Numerical Methods for Partial Differential Equations, 0, , .	3.6	0