

Paul Mycek

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

598
citations

1163117

8
h-index

940533

16
g-index

22
all docs

22
docs citations

22
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	High-order multigrid strategies for hybrid high-order discretizations of elliptic equations. Numerical Linear Algebra With Applications, 2023, 30, .	1.6	1
2	Resiliency in numerical algorithm design for extreme scale simulations. International Journal of High Performance Computing Applications, 2022, 36, 251-285.	3.7	1
3	Towards robust, fast solutions of elliptic equations on complex domains through hybrid high-order discretizations and non-nested multigrid methods. International Journal for Numerical Methods in Engineering, 2021, 122, 6576-6595.	2.8	4
4	An H-Multigrid Method for Hybrid High-Order Discretizations. SIAM Journal of Scientific Computing, 2021, 43, S839-S861.	2.8	7
5	Multilevel Monte Carlo Covariance Estimation for the Computation of Sobol' Indices. SIAM-ASA Journal on Uncertainty Quantification, 2019, 7, 1323-1348.	2.0	4
6	Parallel Domain Decomposition Strategies for Stochastic Elliptic Equations Part B: Accelerated Monte Carlo Sampling with Local PC Expansions. SIAM Journal of Scientific Computing, 2018, 40, C547-C580.	2.8	8
7	Parallel Domain Decomposition Strategies for Stochastic Elliptic Equations. Part A: Local Karhunen-Loève Representations. SIAM Journal of Scientific Computing, 2018, 40, C520-C546.	2.8	11
8	Discrete A Priori Bounds for the Detection of Corrupted PDE Solutions in Exascale Computations. SIAM Journal of Scientific Computing, 2017, 39, C1-C28.	2.8	4
9	A resilient domain decomposition polynomial chaos solver for uncertain elliptic PDEs. Computer Physics Communications, 2017, 216, 18-34.	7.5	6
10	Iterative solver approach for turbine interactions: application to wind or marine current turbine farms. Applied Mathematical Modelling, 2017, 41, 331-349.	4.2	7
11	ULFM-MPI Implementation of a Resilient Task-Based Partial Differential Equations Preconditioner. , 2016, , .		6
12	Scalability of Partial Differential Equations Preconditioner Resilient to Soft and Hard Faults. Lecture Notes in Computer Science, 2016, , 469-485.	1.3	0
13	Formulation and analysis of a diffusion-velocity particle model for transport-dispersion equations. Computational and Applied Mathematics, 2016, 35, 447-473.	1.3	10
14	Partial Differential Equations Preconditioner Resilient to Soft and Hard Faults. , 2015, , .		3
15	Fault Resilient Domain Decomposition Preconditioner for PDEs. SIAM Journal of Scientific Computing, 2015, 37, A2317-A2345.	2.8	14
16	Experimental study of the turbulence intensity effects on marine current turbines behaviour. Part II: Two interacting turbines. Renewable Energy, 2014, 68, 876-892.	8.9	136
17	Experimental study of the turbulence intensity effects on marine current turbines behaviour. Part I: One single turbine. Renewable Energy, 2014, 66, 729-746.	8.9	268
18	A self-regularising DVM-PSE method for the modelling of diffusion in particle methods. Comptes Rendus - Mecanique, 2013, 341, 709-714.	2.1	3

#	ARTICLE	IF	CITATIONS
19	Numerical and experimental study of the interaction between two marine current turbines. International Journal of Marine Energy, 2013, 1, 70-83.	1.8	50
20	Numerical simulation of the wake of marine current turbines with a particle method. Renewable Energy, 2012, 46, 111-126.	8.9	55
21	Étude numérique du comportement d'hydroliennes à axe horizontal : vers une modélisation d'un parc d'hydroliennes. , 2012, , .		0
22	Caractérisation numérique et expérimentale des interactions entre deux hydroliennes. , 2011, , .		0