

# Ronald D Haynes

## List of Publications by Year in descending order

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37  
papers

657  
citations

840776

11  
h-index

580821

25  
g-index

39  
all docs

39  
docs citations

39  
times ranked

618  
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of tidal current energy in the Minas Passage, Bay of Fundy. Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy, 2008, 222, 493-507.	1.4	172
2	A Computationally Stable Approach to Gaussian Process Interpolation of Deterministic Computer Simulation Data. Technometrics, 2011, 53, 366-378.	1.9	89
3	Simultaneous and sequential approaches to joint optimization of well placement and control. Computational Geosciences, 2014, 18, 433-448.	2.4	75
4	A multilevel coordinate search algorithm for well placement, control and joint optimization. Computers and Chemical Engineering, 2016, 95, 75-96.	3.8	47
5	Joint optimization of well placement and control for nonconventional well types. Journal of Petroleum Science and Engineering, 2015, 126, 242-253.	4.2	43
6	A Parallel Space-Time Algorithm. SIAM Journal of Scientific Computing, 2012, 34, C233-C248.	2.8	26
7	Optimization of hydrocarbon water alternating gas in the Norne field: Application of evolutionary algorithms. Fuel, 2018, 223, 86-98.	6.4	24
8	Domain Decomposition Approaches for Mesh Generation via the Equidistribution Principle. SIAM Journal on Numerical Analysis, 2012, 50, 2111-2135.	2.3	19
9	Well control optimization using derivative-free algorithms and a multiscale approach. Computers and Chemical Engineering, 2019, 123, 12-33.	3.8	18
10	Hierarchical Full-Duplex Underwater Acoustic Network: A NOMA Approach. , 2018, , .		17
11	Efficient optimization of the likelihood function in Gaussian process modelling. Computational Statistics and Data Analysis, 2014, 73, 40-52.	1.2	16
12	Algorithm 965. ACM Transactions on Mathematical Software, 2017, 43, 1-13.	2.9	13
13	A Schwarz Waveform Moving Mesh Method. SIAM Journal of Scientific Computing, 2007, 29, 656-673.	2.8	12
14	Parallel stochastic methods for PDE based grid generation. Computers and Mathematics With Applications, 2014, 68, 804-820.	2.7	9
15	Discrete analysis of domain decomposition approaches for mesh generation via the equidistribution principle. Mathematics of Computation, 2016, 86, 233-273.	2.1	7
16	A Closer Look At Differential Evolution For The Optimal Well Placement Problem. , 2015, , .		6
17	Eye of the Veholder: AR Extending and Blending of Museum Objects and Virtual Collections. Progress in IS, 2018, , 79-91.	0.6	6
18	A study in the computation time required for the inclusion of strain field effects in Bloch-wave simulations of TEM diffraction contrast images. Ultramicroscopy, 2008, 108, 415-425.	1.9	5

#	ARTICLE	IF	CITATIONS
19	A Numerical Study of Blowup in the Harmonic Map Heat Flow Using the MMPDE Moving Mesh Method. Numerical Mathematics, 2013, 6, 364-383.	1.3	5
20	Alternating Schwarz methods for partial differential equation-based mesh generation. International Journal of Computer Mathematics, 2015, 92, 349-376.	1.8	5
21	Simultaneous Optimization of Well Placement and Control Using a Hybrid Global-local Strategy. , 2012, , .		5
22	Moving mesh simulation of contact sets in two dimensional models of elastic electrostatic deflection problems. Journal of Computational Physics, 2018, 375, 763-782.	3.8	4
23	MPI OpenMP Algorithms for the Parallel Space Time Solution of Time Dependent PDEs. Lecture Notes in Computational Science and Engineering, 2014, , 179-187.	0.3	4
24	Inverse positivity of perturbed tridiagonal $M$ -matrices. Linear Algebra and Its Applications, 2007, 422, 742-754.	0.9	3
25	Probabilistic domain decomposition for the solution of the two-dimensional magnetotelluric problem. Computational Geosciences, 2017, 21, 117-129.	2.4	3
26	Alternating and Linearized Alternating Schwarz Methods for Equidistributing Grids. Lecture Notes in Computational Science and Engineering, 2013, , 395-402.	0.3	3
27	Preconditioning for a Class of Spectral Differentiation Matrices. Journal of Scientific Computing, 2005, 24, 343-371.	2.3	2
28	Persistently positive inverses of perturbed $M$ -matrices. Linear Algebra and Its Applications, 2007, 422, 742-754.	0.9	2
29	ArjunAir: Updating and parallelizing an existing time domain electromagnetic inversion program. , 2014, , .		2
30	On the role of the second-order derivative term in the calculation of convergent beam diffraction patterns. Ultramicroscopy, 2017, 179, 73-80.	1.9	2
31	Finite element modelling of geophysical electromagnetic data with goal-oriented hr-adaptivity. Computational Geosciences, 2020, 24, 1257-1283.	2.4	2
32	Domain decomposition parabolic Monge approach for fast generation of adaptive moving meshes. Computers and Mathematics With Applications, 2021, 84, 97-111.	2.7	2
33	A Stochastic Domain Decomposition Method for Time Dependent Mesh Generation. Lecture Notes in Computational Science and Engineering, 2016, , 107-115.	0.3	2
34	Linearized domain decomposition approaches for nonlinear boundary value problems. Journal of Computational and Applied Mathematics, 2019, 346, 620-637.	2.0	1
35	Recent Advances in Schwarz Waveform Moving Mesh Methods A New Moving Subdomain Method. Lecture Notes in Computational Science and Engineering, 2011, , 253-260.	0.3	1
36	Monotonicity of Perturbed Tridiagonal $M$ -Matrices. SIAM Journal on Matrix Analysis and Applications, 2012, 33, 681-700.	1.4	0

#	ARTICLE	IF	CITATIONS
37	Domain Decomposition Approaches for PDE Based Mesh Generation. Lecture Notes in Computational Science and Engineering, 2018, , 73-86.	0.3	0