

Daniel A White

List of Publications by Year in descending order

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401
citing authors

#	ARTICLE	IF	CITATIONS
1	Manufacturing and stiffness constraints for topology optimized periodic structures. Structural and Multidisciplinary Optimization, 2022, 65, 1.	3.5	3
2	Topology optimization of 3D photonic crystals with complete bandgaps. Optics Express, 2021, 29, 22170.	3.4	10
3	A dual mesh method with adaptivity for stress-constrained topology optimization. Structural and Multidisciplinary Optimization, 2020, 61, 749-762.	3.5	16
4	Simultaneous material, shape and topology optimization. Computer Methods in Applied Mechanics and Engineering, 2020, 371, 113321.	6.6	11
5	Simple, accurate surrogate models of the elastic response of three-dimensional open truss micro-architectures with applications to multiscale topology design. Structural and Multidisciplinary Optimization, 2019, 60, 1887-1920.	3.5	56
6	Multiscale topology optimization using neural network surrogate models. Computer Methods in Applied Mechanics and Engineering, 2019, 346, 1118-1135.	6.6	137
7	A computational study of symmetry and well-posedness of structural topology optimization. Structural and Multidisciplinary Optimization, 2019, 59, 759-766.	3.5	5
8	Topological optimization of structures using Fourier representations. Structural and Multidisciplinary Optimization, 2018, 58, 1205-1220.	3.5	15
9	Finite Element Simulation of Permanent Magnetoelastic Thin Films. IEEE Transactions on Magnetics, 2011, 47, 1402-1405.	2.1	8
10	Finite element modeling of the deformation of magnetoelastic film. Journal of Computational Physics, 2010, 229, 6193-6207.	3.8	20
11	Nonphysical Reverse Currents in Transient Finite-Element Magnetics Simulation. IEEE Transactions on Magnetics, 2009, 45, 1973-1989.	2.1	1
12	Using the Sherman-Morrison-Woodbury Formula for Coupling External Circuits With FEM for Simulation of Eddy Current Problems. IEEE Transactions on Magnetics, 2009, 45, 3915-3918.	2.1	6
13	An efficient vector finite element method for nonlinear electromagnetic modeling. Journal of Computational Physics, 2007, 225, 1331-1346.	3.8	25
14	A QR Accelerated Volume-to-Surface Boundary Condition for the Finite-Element Solution of Eddy-Current Problems. IEEE Transactions on Magnetics, 2007, 43, 1920-1933.	2.1	2
15	Performance of Low-Rank QR Approximation of the Finite Element Biot-Savart Law. IEEE Transactions on Magnetics, 2007, 43, 1485-1488.	2.1	1
16	Design of near-field irregular diffractive optical elements by use of a multiresolution direct binary search method. Optics Letters, 2006, 31, 1181.	3.3	12
17	FEMSTER. ACM Transactions on Mathematical Software, 2005, 31, 425-457.	2.9	46
18	A Vector Finite Element Time-Domain Method for Solving Maxwell's Equations on Unstructured Hexahedral Grids. SIAM Journal of Scientific Computing, 2001, 23, 683-706.	2.8	67

#	ARTICLE	IF	CITATIONS
19	Numerical dispersion of a vector finite element method on skewed hexahedral grids. Communications in Numerical Methods in Engineering, 2000, 16, 47-55.	1.3	8
20	Numerical Modeling of Optical Gradient Traps Using the Vector Finite Element Method. Journal of Computational Physics, 2000, 159, 13-37.	3.8	27
21	Vector finite element modeling of optical tweezers. Computer Physics Communications, 2000, 128, 558-564.	7.5	23
22	Solution of capacitance systems using incomplete Cholesky fixed point iteration. Communications in Numerical Methods in Engineering, 1999, 15, 375-380.	1.3	5
23	Improved vector FEM solutions of Maxwell's equations using grid pre-conditioning. International Journal for Numerical Methods in Engineering, 1997, 40, 3815-3837.	2.8	9