

Daniel A White

List of Publications by Year in descending order

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23
papers

516
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401
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Multiscale topology optimization using neural network surrogate models. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2019, 346, 1118-1135. | 6.6 | 137 |
| 2 | A Vector Finite Element Time-Domain Method for Solving Maxwell's Equations on Unstructured Hexahedral Grids. <i>SIAM Journal of Scientific Computing</i> , 2001, 23, 683-706. | 2.8 | 67 |
| 3 | Simple, accurate surrogate models of the elastic response of three-dimensional open truss micro-architectures with applications to multiscale topology design. <i>Structural and Multidisciplinary Optimization</i> , 2019, 60, 1887-1920. | 3.5 | 56 |
| 4 | FEMSTER. <i>ACM Transactions on Mathematical Software</i> , 2005, 31, 425-457. | 2.9 | 46 |
| 5 | Numerical Modeling of Optical Gradient Traps Using the Vector Finite Element Method. <i>Journal of Computational Physics</i> , 2000, 159, 13-37. | 3.8 | 27 |
| 6 | An efficient vector finite element method for nonlinear electromagnetic modeling. <i>Journal of Computational Physics</i> , 2007, 225, 1331-1346. | 3.8 | 25 |
| 7 | Vector finite element modeling of optical tweezers. <i>Computer Physics Communications</i> , 2000, 128, 558-564. | 7.5 | 23 |
| 8 | Finite element modeling of the deformation of magnetoelastic film. <i>Journal of Computational Physics</i> , 2010, 229, 6193-6207. | 3.8 | 20 |
| 9 | A dual mesh method with adaptivity for stress-constrained topology optimization. <i>Structural and Multidisciplinary Optimization</i> , 2020, 61, 749-762. | 3.5 | 16 |
| 10 | Topological optimization of structures using Fourier representations. <i>Structural and Multidisciplinary Optimization</i> , 2018, 58, 1205-1220. | 3.5 | 15 |
| 11 | Design of near-field irregular diffractive optical elements by use of a multiresolution direct binary search method. <i>Optics Letters</i> , 2006, 31, 1181. | 3.3 | 12 |
| 12 | Simultaneous material, shape and topology optimization. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2020, 371, 113321. | 6.6 | 11 |
| 13 | Topology optimization of 3D photonic crystals with complete bandgaps. <i>Optics Express</i> , 2021, 29, 22170. | 3.4 | 10 |
| 14 | Improved vector FEM solutions of Maxwell's equations using grid pre-conditioning. <i>International Journal for Numerical Methods in Engineering</i> , 1997, 40, 3815-3837. | 2.8 | 9 |
| 15 | Numerical dispersion of a vector finite element method on skewed hexahedral grids. <i>Communications in Numerical Methods in Engineering</i> , 2000, 16, 47-55. | 1.3 | 8 |
| 16 | Finite Element Simulation of Permanent Magnetoelastic Thin Films. <i>IEEE Transactions on Magnetics</i> , 2011, 47, 1402-1405. | 2.1 | 8 |
| 17 | Using the Sherman-Morrison-Woodbury Formula for Coupling External Circuits With FEM for Simulation of Eddy Current Problems. <i>IEEE Transactions on Magnetics</i> , 2009, 45, 3915-3918. | 2.1 | 6 |
| 18 | Solution of capacitance systems using incomplete Cholesky fixed point iteration. <i>Communications in Numerical Methods in Engineering</i> , 1999, 15, 375-380. | 1.3 | 5 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | A computational study of symmetry and well-posedness of structural topology optimization. Structural and Multidisciplinary Optimization, 2019, 59, 759-766. | 3.5 | 5 |
| 20 | Manufacturing and stiffness constraints for topology optimized periodic structures. Structural and Multidisciplinary Optimization, 2022, 65, 1. | 3.5 | 3 |
| 21 | 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 |
| 22 | Performance of Low-Rank QR Approximation of the Finite Element Biot-Savart Law. IEEE Transactions on Magnetics, 2007, 43, 1485-1488. | 2.1 | 1 |
| 23 | Nonphysical Reverse Currents in Transient Finite-Element Magnetics Simulation. IEEE Transactions on Magnetics, 2009, 45, 1973-1989. | 2.1 | 1 |