

Nathan Albin

List of Publications by Year in descending order

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Version: 2024-02-01

20
papers

259
citations

1163117

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940533

16
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21
all docs

21
docs citations

21
times ranked

244
citing authors

#	ARTICLE	IF	CITATIONS
1	Sensitivity of microwave ablation models to tissue biophysical properties: A first step toward probabilistic modeling and treatment planning. <i>Medical Physics</i> , 2016, 43, 2649-2661.	3.0	53
2	A spectral FC solver for the compressible Navier–Stokes equations in general domains I: Explicit time-stepping. <i>Journal of Computational Physics</i> , 2011, 230, 6248-6270.	3.8	49
3	Fourier continuation methods for high-fidelity simulation of nonlinear acoustic beams. <i>Journal of the Acoustical Society of America</i> , 2012, 132, 2371-2387.	1.1	26
4	Multi-domain Fourier-continuation/WENO hybrid solver for conservation laws. <i>Journal of Computational Physics</i> , 2011, 230, 8779-8796.	3.8	21
5	Multiphase laminates of extremal effective conductivity in two dimensions. <i>Journal of the Mechanics and Physics of Solids</i> , 2007, 55, 1513-1553.	4.8	19
6	Modulus on graphs as a generalization of standard graph theoretic quantities. <i>Conformal Geometry and Dynamics</i> , 2015, 19, 298-317.	0.5	13
7	Maximizing algebraic connectivity in interconnected networks. <i>Physical Review E</i> , 2016, 93, 030301.	2.1	13
8	Network clustering and community detection using modulus of families of loops. <i>Physical Review E</i> , 2017, 95, 012316.	2.1	10
9	An Algorithmic Exploration of the Existence of High-Order Summation by Parts Operators with Diagonal Norm. <i>Journal of Scientific Computing</i> , 2016, 69, 633-650.	2.3	8
10	Blocking duality for p-modulus on networks and applications. <i>Annali Di Matematica Pura Ed Applicata</i> , 2019, 198, 973-999.	1.0	7
11	Fourier multipliers for nonlocal Laplace operators. <i>Applicable Analysis</i> , 2021, 100, 2526-2546.	1.3	6
12	Fourier Spectral Methods for Nonlocal Models. <i>Journal of Peridynamics and Nonlocal Modeling</i> , 2020, 2, 317-335.	2.9	6
13	Minimal subfamilies and the probabilistic interpretation for modulus on graphs. <i>Journal of Analysis</i> , 2016, 24, 183-208.	0.6	5
14	Generalized network measures based on modulus of families of walks. <i>Journal of Computational and Applied Mathematics</i> , 2016, 307, 307-318.	2.0	5
15	Discrete Periodic Extension Using an Approximate Step Function. <i>SIAM Journal of Scientific Computing</i> , 2014, 36, A668-A692.	2.8	4
16	Numerical investigation of metrics for epidemic processes on graphs. , 2015, , .		4
17	Fairest edge usage and minimum expected overlap for random spanning trees. <i>Discrete Mathematics</i> , 2021, 344, 112282.	0.7	4
18	Spanning tree modulus for secure broadcast games. <i>Networks</i> , 2020, 76, 350-365.	2.7	3

#	ARTICLE	IF	CITATIONS
19	Infinity modulus and the essential metric. Journal of Mathematical Analysis and Applications, 2018, 467, 570-584.	1.0	2
20	Generalization of effective conductance centrality for egonetworks. Physica A: Statistical Mechanics and Its Applications, 2018, 511, 127-138.	2.6	0