

Michael O'Neil

List of Publications by Year in descending order

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papers

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840776

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23
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1437
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast multipole methods for the evaluation of layer potentials with locally-corrected quadratures. <i>Journal of Computational Physics: X</i> , 2021, 10, 100092.	0.7	5
2	Efficient high-order singular quadrature schemes in magnetic fusion. <i>Plasma Physics and Controlled Fusion</i> , 2020, 62, 024004.	2.1	7
3	A Fast Boundary Integral Method for High-Order Multiscale Mesh Generation. <i>SIAM Journal of Scientific Computing</i> , 2020, 42, A1380-A1401.	2.8	3
4	Taylor states in stellarators: A fast high-order boundary integral solver. <i>Journal of Computational Physics</i> , 2019, 397, 108791.	3.8	15
5	A high-order wideband direct solver for electromagnetic scattering from bodies of revolution. <i>Journal of Computational Physics</i> , 2019, 387, 205-229.	3.8	14
6	An FFT-accelerated direct solver for electromagnetic scattering from penetrable axisymmetric objects. <i>Journal of Computational Physics</i> , 2019, 390, 152-174.	3.8	13
7	An integral equation-based numerical solver for Taylor states in toroidal geometries. <i>Journal of Computational Physics</i> , 2018, 359, 263-282.	3.8	11
8	Second-kind integral equations for the Laplace-Beltrami problem on surfaces in three dimensions. <i>Advances in Computational Mathematics</i> , 2018, 44, 1385-1409.	1.6	12
9	A new hybrid integral representation for frequency domain scattering in layered media. <i>Applied and Computational Harmonic Analysis</i> , 2018, 45, 359-378.	2.2	9
10	Accurate and efficient numerical calculation of stable densities via optimized quadrature and asymptotics. <i>Statistics and Computing</i> , 2018, 28, 171-185.	1.5	10
11	Robust integral formulations for electromagnetic scattering from three-dimensional cavities. <i>Journal of Computational Physics</i> , 2017, 345, 1-16.	3.8	13
12	Fast algorithms for Quadrature by Expansion I: Globally valid expansions. <i>Journal of Computational Physics</i> , 2017, 345, 706-731.	3.8	24
13	Smoothed Corners and Scattered Waves. <i>SIAM Journal of Scientific Computing</i> , 2016, 38, A2665-A2698.	2.8	9
14	Fast Direct Methods for Gaussian Processes. <i>IEEE Transactions on Pattern Analysis and Machine Intelligence</i> , 2016, 38, 252-265.	13.9	397
15	Debye Sources, Beltrami Fields, and a Complex Structure on Maxwell Fields. <i>Communications on Pure and Applied Mathematics</i> , 2015, 68, 2237-2280.	3.1	10
16	Exact axisymmetric Taylor states for shaped plasmas. <i>Physics of Plasmas</i> , 2014, 21, 064501.	1.9	5
17	A generalized Debye source approach to electromagnetic scattering in layered media. <i>Journal of Mathematical Physics</i> , 2014, 55, .	1.1	4
18	On the efficient representation of the half-space impedance Green's function for the Helmholtz equation. <i>Wave Motion</i> , 2014, 51, 1-13.	2.0	26

#	ARTICLE	IF	CITATIONS
19	A Consistency Condition for the Vector Potential in Multiply-Connected Domains. IEEE Transactions on Magnetics, 2013, 49, 1072-1076.	2.1	10
20	A fast, high-order solver for the Grad-Shafranov equation. Journal of Computational Physics, 2013, 243, 28-45.	3.8	29
21	Debye Sources and the Numerical Solution of the Time Harmonic Maxwell Equations II. Communications on Pure and Applied Mathematics, 2013, 66, 753-789.	3.1	38
22	An algorithm for the rapid evaluation of special function transforms. Applied and Computational Harmonic Analysis, 2010, 28, 203-226.	2.2	60