Catalin Turc

List of Publications by Year
in descending order

18	286	840776 11	888059 17
papers	citations	h-index	g-index

18	18	18	152
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Planewave Density Interpolation Methods for the EFIE on Simple and Composite Surfaces. IEEE Transactions on Antennas and Propagation, 2021, 69, 317-331.	5.1	1
2	Sweeping Preconditioners for the Iterative Solution of Quasiperiodic Helmholtz Transmission Problems in Layered Media. Journal of Scientific Computing, 2020, 82, 1.	2.3	6
3	Planewave Density Interpolation Methods for 3D Helmholtz Boundary Integral Equations. SIAM Journal of Scientific Computing, 2019, 41, A2088-A2116.	2.8	6
4	Harmonic density interpolation methods for high-order evaluation of Laplace layer potentials in 2D and 3D. Journal of Computational Physics, 2019, 376, 411-434.	3.8	13
5	Multitrace/singletrace formulations and Domain Decomposition Methods for the solution of Helmholtz transmission problems for bounded composite scatterers. Journal of Computational Physics, 2017, 350, 343-360.	3.8	6
6	Well-conditioned boundary integral equation formulations and NystrÃ¶m discretizations for the solution of Helmholtz problems with impedance boundary conditions in two-dimensional Lipschitz domains. Journal of Integral Equations and Applications, 2017, 29, .	0.6	4
7	Schur complement domain decomposition methods for the solution of multiple scattering problems. IMA Journal of Applied Mathematics, 2017, 82, 1104-1134.	1.6	8
8	Superalgebraically convergent smoothly windowed lattice sums for doubly periodic Green functions in three-dimensional space. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2016, 472, 20160255.	2.1	14
9	Windowed Green Function Method for Layered-Media Scattering. SIAM Journal on Applied Mathematics, 2016, 76, 1871-1898.	1.8	27
10	Well-posed boundary integral equation formulations and NystrÃ¶m discretizations for the solution of Helmholtz transmission problems in two-dimensional Lipschitz domains. Journal of Integral Equations and Applications, 2016, 28, .	0.6	12
11	High-order NystrÃ¶m discretizations for the solution of integral equation formulations of two-dimensional Helmholtz transmission problems. IMA Journal of Numerical Analysis, 2015, , drv010.	2.9	2
12	Integral equations requiring small numbers of Krylov-subspace iterations for two-dimensional smooth penetrable scattering problems. Applied Numerical Mathematics, 2015, 95, 82-98.	2.1	19
13	Regularized Combined Field Integral Equations for Acoustic Transmission Problems. SIAM Journal on Applied Mathematics, 2015, 75, 929-952.	1.8	12
14	Well-conditioned boundary integral equation formulations for the solution of high-frequency electromagnetic scattering problems. Computers and Mathematics With Applications, 2014, 67, 1772-1805.	2.7	18
15	Well-conditioned boundary integral equations for two- dimensional sound-hard scattering problems in domains with corners. Journal of Integral Equations and Applications, 2012, 24, .	0.6	18
16	Regularized integral equations and fast highâ€order solvers for soundâ€hard acoustic scattering problems. International Journal for Numerical Methods in Engineering, 2012, 91, 1045-1072.	2.8	51
17	A high-order integral algorithm for highly singular PDE solutions in Lipschitz domains. Computing (Vienna/New York), 2009, 84, 149-181.	4.8	24
18	Electromagnetic integral equations requiring small numbers of Krylov-subspace iterations. Journal of Computational Physics, 2009, 228, 6169-6183.	3.8	45