

Catalin Turc

List of Publications by Year in descending order

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18
papers

286
citations

840776

11
h-index

888059

17
g-index

18
all docs

18
docs citations

18
times ranked

152
citing authors

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