Nail A Gumerov

List of Publications by Year
in descending order

17 papers	534 citations	933447 10 h-index	1058476 14 g-index
18 all docs	18 docs citations	18 times ranked	373 citing authors

#	Article	IF	Citations
1	A broadband fast multipole accelerated boundary element method for the three dimensional Helmholtz equation. Journal of the Acoustical Society of America, 2009, 125, 191-205.	1.1	106
2	Computation of scattering from N spheres using multipole reexpansion. Journal of the Acoustical Society of America, 2002, 112, 2688-2701.	1.1	69
3	Computation of the head-related transfer function via the fast multipole accelerated boundary element method and its spherical harmonic representation. Journal of the Acoustical Society of America, 2010, 127, 370-386.	1.1	65
4	Plane-Wave Decomposition of Acoustical Scenes Via Spherical and Cylindrical Microphone Arrays. IEEE Transactions on Audio Speech and Language Processing, 2010, 18, 2-16.	3.2	53
5	Computation of scattering from clusters of spheres using the fast multipole method. Journal of the Acoustical Society of America, 2005, 117, 1744-1761.	1.1	52
6	Regularized HRTF fitting using spherical harmonics. , 2009, , .		47
7	Scalable fast multipole methods on distributed heterogeneous architectures. , 2011, , .		28
8	A scalar potential formulation and translation theory for the time-harmonic Maxwell equations. Journal of Computational Physics, 2007, 225, 206-236.	3.8	23
9	A hierarchical algorithm for fast debye summation with applications to small angle scattering. Journal of Computational Chemistry, 2012, 33, 1981-1996.	3.3	21
10	FMM/GPU-Accelerated Boundary Element Method for Computational Magnetics and Electrostatics. IEEE Transactions on Magnetics, 2017, 53, 1-11.	2.1	16
11	Efficient FMM accelerated vortex methods in three dimensions via the Lamb–Helmholtz decomposition. Journal of Computational Physics, 2013, 240, 310-328.	3.8	13
12	Semi-analytical computation of acoustic scattering by spheroids and disks. Journal of the Acoustical Society of America, 2014, 136, EL405-EL410.	1.1	12
13	Modes of self-organization of diluted bubbly liquids in acoustic fields: One-dimensional theory. Journal of the Acoustical Society of America, 2017, 141, 1190-1202.	1.1	9
14	Fast multipole accelerated indirect boundary elements for the Helmholtz equation. Proceedings of Meetings on Acoustics, 2013, , .	0.3	8
15	Numerical study of the influence of the torso on the HRTF. , 2002, , .		5
16	Hierarchical $O(N)$ computation of small-angle scattering profiles and their associated derivatives. Journal of Applied Crystallography, 2014, 47, 755-761.	4.5	5
17	Boundary Element Solution of Electromagnetic Fields for Non-Perfect Conductors at Low Frequencies and Thin Skin Depths. IEEE Transactions on Magnetics, 2020, 56, 1-12.	2.1	2