

Anna-Karin Tornberg

List of Publications by Year in descending order

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32
papers

858
citations

430874

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477307

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all docs

32
docs citations

32
times ranked

570
citing authors

#	ARTICLE	IF	CITATIONS
1	An adaptive kernel-split quadrature method for parameter-dependent layer potentials. <i>Advances in Computational Mathematics</i> , 2022, 48, 1.	1.6	3
2	Quadrature error estimates for layer potentials evaluated near curved surfaces in three dimensions. <i>Computers and Mathematics With Applications</i> , 2022, 111, 1-19.	2.7	7
3	An accurate integral equation method for Stokes flow with piecewise smooth boundaries. <i>BIT Numerical Mathematics</i> , 2021, 61, 309-335.	2.0	7
4	Highly accurate special quadrature methods for Stokesian particle suspensions in confined geometries. <i>International Journal for Numerical Methods in Fluids</i> , 2021, 93, 2175-2224.	1.6	5
5	Fast Ewald summation for electrostatic potentials with arbitrary periodicity. <i>Journal of Chemical Physics</i> , 2021, 154, 164109.	3.0	6
6	Parabolic velocity profile causes shape-selective drift of inertial ellipsoids. <i>Journal of Fluid Mechanics</i> , 2021, 926, .	3.4	2
7	An integral equation-based numerical method for the forced heat equation on complex domains. <i>Advances in Computational Mathematics</i> , 2020, 46, 1.	1.6	8
8	An integral equation method for closely interacting surfactant-covered droplets in wall-confined Stokes flow. <i>International Journal for Numerical Methods in Fluids</i> , 2020, 92, 1975-2008.	1.6	6
9	A 3D boundary integral method for the electrohydrodynamics of surfactant-covered drops. <i>Journal of Computational Physics</i> , 2019, 389, 111-127.	3.8	23
10	Simulation and validation of surfactant-laden drops in two-dimensional Stokes flow. <i>Journal of Computational Physics</i> , 2019, 386, 218-247.	3.8	13
11	Regularizing the fast multipole method for use in molecular simulation. <i>Journal of Chemical Physics</i> , 2019, 151, 234113.	3.0	10
12	FFT BASED SPECTRAL EWALD METHODS AS AN ALTERNATIVE TO FAST MULTIPOLE METHODS. , 2019, , .		0
13	A highly accurate boundary integral equation method for surfactant-laden drops in 3D. <i>Journal of Computational Physics</i> , 2018, 360, 167-191.	3.8	31
14	Adaptive Quadrature by Expansion for Layer Potential Evaluation in Two Dimensions. <i>SIAM Journal of Scientific Computing</i> , 2018, 40, A1225-A1249.	2.8	21
15	Fast Ewald summation for Green's functions of Stokes flow in a half-space. <i>Research in Mathematical Sciences</i> , 2018, 5, 1.	1.0	8
16	A local target specific quadrature by expansion method for evaluation of layer potentials in 3D. <i>Journal of Computational Physics</i> , 2018, 364, 365-392.	3.8	19
17	Partition of unity extension of functions on complex domains. <i>Journal of Computational Physics</i> , 2018, 375, 57-79.	3.8	18
18	The Spectral Ewald method for singly periodic domains. <i>Journal of Computational Physics</i> , 2017, 347, 341-366.	3.8	8

#	ARTICLE	IF	CITATIONS
19	Fast Ewald summation for free-space Stokes potentials. <i>Research in Mathematical Sciences</i> , 2017, 4, 1.	1.0	24
20	Error estimation for quadrature by expansion in layer potential evaluation. <i>Advances in Computational Mathematics</i> , 2017, 43, 195-234.	1.6	23
21	A fast integral equation method for solid particles in viscous flow using quadrature by expansion. <i>Journal of Computational Physics</i> , 2016, 326, 420-445.	3.8	37
22	The Ewald sums for singly, doubly and triply periodic electrostatic systems. <i>Advances in Computational Mathematics</i> , 2016, 42, 227-248.	1.6	19
23	An accurate integral equation method for simulating multi-phase Stokes flow. <i>Journal of Computational Physics</i> , 2015, 298, 145-160.	3.8	27
24	Fast Ewald summation for Stokesian particle suspensions. <i>International Journal for Numerical Methods in Fluids</i> , 2014, 76, 669-698.	1.6	32
25	Corrected trapezoidal rules for a class of singular functions. <i>IMA Journal of Numerical Analysis</i> , 2014, 34, 1509-1540.	2.9	20
26	An embedded boundary method for soluble surfactants with interface tracking for two-phase flows. <i>Journal of Computational Physics</i> , 2014, 256, 768-790.	3.8	29
27	Fast and spectrally accurate Ewald summation for 2-periodic electrostatic systems. <i>Journal of Chemical Physics</i> , 2012, 136, 164111.	3.0	39
28	Spectral accuracy in fast Ewald-based methods for particle simulations. <i>Journal of Computational Physics</i> , 2011, 230, 8744-8761.	3.8	44
29	A numerical method for two phase flows with insoluble surfactants. <i>Computers and Fluids</i> , 2011, 49, 150-165.	2.5	29
30	Spectrally accurate fast summation for periodic Stokes potentials. <i>Journal of Computational Physics</i> , 2010, 229, 8994-9010.	3.8	46
31	A fast multipole method for the three-dimensional Stokes equations. <i>Journal of Computational Physics</i> , 2008, 227, 1613-1619.	3.8	73
32	Numerical approximations of singular source terms in differential equations. <i>Journal of Computational Physics</i> , 2004, 200, 462-488.	3.8	221