

Denis Zorin

List of Publications by Year in descending order

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22
papers

2,304
citations

516710

16
h-index

794594

19
g-index

22
all docs

22
docs citations

22
times ranked

1270
citing authors

#	ARTICLE	IF	CITATIONS
1	A robust solver for elliptic PDEs in 3D complex geometries. Journal of Computational Physics, 2021, 442, 110511.	3.8	7
2	A fast platform for simulating semi-flexible fiber suspensions applied to cell mechanics. Journal of Computational Physics, 2017, 329, 173-209.	3.8	65
3	Contact-aware simulations of particulate Stokesian suspensions. Journal of Computational Physics, 2017, 347, 160-182.	3.8	12
4	Scalable topology optimization with the kernel-independent fast multipole method. Engineering Analysis With Boundary Elements, 2017, 83, 123-132.	3.7	3
5	Boundary integral method for the flow of vesicles with viscosity contrast in three dimensions. Journal of Computational Physics, 2015, 298, 766-786.	3.8	30
6	Dyadic T-mesh subdivision. ACM Transactions on Graphics, 2015, 34, 1-12.	7.2	18
7	An $\mathcal{O}(N)$ direct solver for integral equations on the plane. Applied and Computational Harmonic Analysis, 2015, 30, 284-317.	2.2	76
8	Quad-Mesh Generation and Processing: A Survey. Computer Graphics Forum, 2013, 32, 51-76.	3.0	229
9	A massively parallel adaptive fast multipole method on heterogeneous architectures. Communications of the ACM, 2012, 55, 101-109.	4.5	74
10	A free-space adaptive FMM-Based PDE solver in three dimensions. Communications in Applied Mathematics and Computational Science, 2011, 6, 79-122.	1.8	39
11	A fast algorithm for simulating vesicle flows in three dimensions. Journal of Computational Physics, 2011, 230, 5610-5634.	3.8	115
12	A massively parallel adaptive fast-multipole method on heterogeneous architectures. , 2009, , .		60
13	A boundary integral method for simulating the dynamics of inextensible vesicles suspended in a viscous fluid in 2D. Journal of Computational Physics, 2009, 228, 2334-2353.	3.8	136
14	A numerical method for simulating the dynamics of 3D axisymmetric vesicles suspended in viscous flows. Journal of Computational Physics, 2009, 228, 7233-7249.	3.8	60
15	A high-order 3D boundary integral equation solver for elliptic PDEs in smooth domains. Journal of Computational Physics, 2006, 219, 247-275.	3.8	123
16	A fast solver for the Stokes equations with distributed forces in complex geometries. Journal of Computational Physics, 2004, 193, 317-348.	3.8	58
17	A kernel-independent adaptive fast multipole algorithm in two and three dimensions. Journal of Computational Physics, 2004, 196, 591-626.	3.8	366
18	4 th Subdivision. Computer Aided Geometric Design, 2001, 18, 397-427.	1.2	165

#	ARTICLE	IF	CITATIONS
19	A unified framework for primal/dual quadrilateral subdivision schemes. <i>Computer Aided Geometric Design</i> , 2001, 18, 429-454.	1.2	109
20	A Method for Analysis of C^1 -Continuity of Subdivision Surfaces. <i>SIAM Journal on Numerical Analysis</i> , 2000, 37, 1677-1708.	2.3	65
21	Piecewise smooth subdivision surfaces with normal control. , 2000, , .		152
22	Interpolating Subdivision for meshes with arbitrary topology. , 1996, , .		342