

Michael Bergdorf

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

901
citations

687363

13
h-index

940533

16
g-index

23
all docs

23
docs citations

23
times ranked

751
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Quantum chemical benchmark databases of gold-standard dimer interaction energies. <i>Scientific Data</i> , 2021, 8, 55. | 5.3 | 34 |
| 2 | Midtown splines: An optimal charge assignment for electrostatics calculations. <i>Journal of Chemical Physics</i> , 2020, 153, 224117. | 3.0 | 1 |
| 3 | MRAG-I2D: Multi-resolution adapted grids for remeshed vortex methods on multicore architectures. <i>Journal of Computational Physics</i> , 2015, 288, 1-18. | 3.8 | 44 |
| 4 | Particle Simulations of Growth: Application to Tumorigenesis. , 2012, , 261-303. | | 1 |
| 5 | Particle Simulations of Growth: Application to Angiogenesis. , 2012, , 305-334. | | 0 |
| 6 | Wavelet-adaptive solvers on multi-core architectures for the simulation of complex systems. <i>Concurrency Computation Practice and Experience</i> , 2011, 23, 172-186. | 2.2 | 6 |
| 7 | A Lagrangian particle method for reaction-diffusion systems on deforming surfaces. <i>Journal of Mathematical Biology</i> , 2010, 61, 649-663. | 1.9 | 33 |
| 8 | High order finite volume methods on wavelet-adapted grids with local time-stepping on multicore architectures for the simulation of shock-bubble interactions. <i>Journal of Computational Physics</i> , 2010, 229, 8364-8383. | 3.8 | 48 |
| 9 | GPU accelerated simulations of bluff body flows using vortex particle methods. <i>Journal of Computational Physics</i> , 2010, 229, 3316-3333. | 3.8 | 73 |
| 10 | Wavelet-Based Adaptive Solvers on Multi-core Architectures for the Simulation of Complex Systems. <i>Lecture Notes in Computer Science</i> , 2009, , 721-734. | 1.3 | 0 |
| 11 | Billion vortex particle direct numerical simulations of aircraft wakes. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008, 197, 1296-1304. | 6.6 | 111 |
| 12 | A Hybrid Model for Three-Dimensional Simulations of Sprouting Angiogenesis. <i>Biophysical Journal</i> , 2008, 95, 3146-3160. | 0.5 | 131 |
| 13 | A Hybrid Model of Sprouting Angiogenesis. <i>Lecture Notes in Computer Science</i> , 2008, , 167-176. | 1.3 | 2 |
| 14 | Vortex Methods for Massively Parallel Computer Architectures. <i>Lecture Notes in Computer Science</i> , 2008, , 479-489. | 1.3 | 0 |
| 15 | Large Scale, Multiresolution Flow Simulations Using Remeshed Particle Methods. <i>Lecture Notes in Computational Science and Engineering</i> , 2008, , 35-46. | 0.3 | 0 |
| 16 | Direct numerical simulations of vortex rings at $Re^{\infty} = 7500$. <i>Journal of Fluid Mechanics</i> , 2007, 581, 495-505. | 3.4 | 43 |
| 17 | Multiresolution Particle Methods. , 2007, , 49-61. | | 0 |
| 18 | A Lagrangian Particle-Wavelet Method. <i>Multiscale Modeling and Simulation</i> , 2006, 5, 980-995. | 1.6 | 65 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | PPM – A highly efficient parallel particle–mesh library for the simulation of continuum systems. <i>Journal of Computational Physics</i> , 2006, 215, 566-588. | 3.8 | 153 |
| 20 | Multilevel Adaptive Particle Methods for Convection-Diffusion Equations. <i>Multiscale Modeling and Simulation</i> , 2005, 4, 328-357. | 1.6 | 61 |
| 21 | Water–carbon interactions III: The influence of surface and fluid impurities. <i>Physical Chemistry Chemical Physics</i> , 2004, 6, 1988-1995. | 2.8 | 28 |
| 22 | Influence of cut-off truncation and artificial periodicity of electrostatic interactions in molecular simulations of solvated ions: A continuum electrostatics study. <i>Journal of Chemical Physics</i> , 2003, 119, 9129-9144. | 3.0 | 67 |