

CITATION REPORT

List of articles citing

Truncated newton methods and the modeling of complex immersed elastic structures

DOI: 10.1002/cpa.3160460602

Communications on Pure and Applied Mathematics,
1993, 46, 787-818.

Source: <https://exaly.com/paper-pdf/23750988/citation-report.pdf>

Version: 2024-04-28

This report has been generated based on the citations recorded by exaly.com for the above article. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

#	Paper	IF	Citations
67	Sperm motility in the presence of boundaries*. <i>Bulletin of Mathematical Biology</i> , 1995 , 57, 679-699	2.1	7
66	Sperm motility in the presence of boundaries. <i>Bulletin of Mathematical Biology</i> , 1995 , 57, 679-99	2.1	142
65	Performance modeling and composition: a case study in cell simulation.		
64	Modeling Viscoelastic Networks and Cell Deformation in the Context of the Immersed Boundary Method. <i>Journal of Computational Physics</i> , 1998 , 147, 86-113	4.1	56
63	Membrane binding-site density can modulate activation thresholds in enzyme systems. <i>Journal of Theoretical Biology</i> , 1998 , 193, 1-18	2.3	14
62	Modeling a swimming fish with an initial boundary value problem: Unsteady maneuvers of an elastic plate with internal force generation. <i>Mathematical and Computer Modelling</i> , 1999 , 30, 77-93		8
61	A microscale model of bacterial and biofilm dynamics in porous media. 2000 , 68, 536-547		35
60	A Vortex/Impulse Method for Immersed Boundary Motion in High Reynolds Number Flows. <i>Journal of Computational Physics</i> , 2000 , 160, 385-400	4.1	9
59	An Immersed Boundary Method with Formal Second-Order Accuracy and Reduced Numerical Viscosity. <i>Journal of Computational Physics</i> , 2000 , 160, 705-719	4.1	617
58	The Blob Projection Method for Immersed Boundary Problems. <i>Journal of Computational Physics</i> , 2000 , 161, 428-453	4.1	74
57	Simulation of a Flapping Flexible Filament in a Flowing Soap Film by the Immersed Boundary Method. <i>Journal of Computational Physics</i> , 2002 , 179, 452-468	4.1	319
56	Modeling elastic shells immersed in fluid. <i>Communications on Pure and Applied Mathematics</i> , 2004 , 57, 283-309	2.5	14
55	Distributed Immersed Boundary Simulation in Titanium. <i>SIAM Journal of Scientific Computing</i> , 2006 , 28, 1361-1378	2.6	10
54	Modelling the Development of Complex Tissues Using Individual Viscoelastic Cells. 2007 , 301-323		7
53	Cell-based Models of Blood Clotting. 2007 , 243-269		5
52	Unconditionally stable discretizations of the immersed boundary equations. <i>Journal of Computational Physics</i> , 2007 , 222, 702-719	4.1	80
51	Error analysis of a stochastic immersed boundary method incorporating thermal fluctuations. <i>Mathematics and Computers in Simulation</i> , 2008 , 79, 379-408	3.3	5

50	Convergence proof of the velocity field for a stokes flow immersed boundary method. <i>Communications on Pure and Applied Mathematics</i> , 2008 , 61, 1213-1263	2.5	35
49	Implicit second-order immersed boundary methods with boundary mass. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 2049-2067	5.7	99
48	Immersed-boundary-type models of intravascular platelet aggregation. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 2087-2104	5.7	102
47	A comparison of implicit solvers for the immersed boundary equations. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2008 , 197, 2290-2304	5.7	26
46	Scaling laws for drag of a compliant body in an incompressible viscous flow. <i>Journal of Fluid Mechanics</i> , 2008 , 607, 387-400	3.7	27
45	Flexible clap and fling in tiny insect flight. <i>Journal of Experimental Biology</i> , 2009 , 212, 3076-90	3	116
44	AN INTRODUCTION TO THE IMMERSSED BOUNDARY AND THE IMMERSSED INTERFACE METHODS. <i>Lecture Notes Series, Institute for Mathematical Sciences</i> , 2009 , 1-67	0.1	1
43	Effect of elastic constitutive laws on the deformation of two-dimensional red blood cell. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2009 , 14, 76-80	0.6	2
42	A 3D motile rod-shaped monotrichous bacterial model. <i>Bulletin of Mathematical Biology</i> , 2009 , 71, 1228-63		22
41	An implicit immersed boundary method for three-dimensional fluid-membrane interactions. <i>Journal of Computational Physics</i> , 2009 , 228, 8427-8445	4.1	75
40	Flow within models of the vertebrate embryonic heart. <i>Journal of Theoretical Biology</i> , 2009 , 259, 449-61	2.3	19
39	Using integral equations and the immersed interface method to solve immersed boundary problems with stiff forces. <i>Computers and Fluids</i> , 2009 , 38, 266-272	2.8	23
38	Interaction of two tandem deformable bodies in a viscous incompressible flow. <i>Journal of Fluid Mechanics</i> , 2009 , 635, 455-475	3.7	63
37	Molecular to Multicellular Deformation during Adhesion of Immune Cells Under Flow. 2010 , 341-368		
36	Accuracy analysis of immersed boundary method using method of manufactured solutions. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2010 , 31, 1197-1208	3.2	2
35	Research on the spherical capsule motion in 3D simple shear flows. <i>Journal of Shanghai Jiaotong University (Science)</i> , 2010 , 15, 702-706	0.6	0
34	A lattice Boltzmann based implicit immersed boundary method for fluid-structure interaction. <i>Computers and Mathematics With Applications</i> , 2010 , 59, 185-193	2.7	48
33	Reynolds number limits for jet propulsion: a numerical study of simplified jellyfish. <i>Journal of Theoretical Biology</i> , 2011 , 285, 84-95	2.3	49

32	An immersed boundary method based on the lattice Boltzmann approach in three dimensions, with application. <i>Computers and Mathematics With Applications</i> , 2011 , 61, 3506-3518	2.7	91
31	A three dimensional implicit immersed boundary method with application. <i>Theoretical and Applied Mechanics Letters</i> , 2011 , 1, 062002	1.8	2
30	A numerical study of the effects of bell pulsation dynamics and oral arms on the exchange currents generated by the upside-down jellyfish <i>Cassiopea xamachana</i> . <i>Journal of Experimental Biology</i> , 2011 , 214, 1911-21	3	33
29	Numerical Methods for Fluid-Structure Interaction [A Review]. <i>Communications in Computational Physics</i> , 2012 , 12, 337-377	2.4	367
28	Slender body theory for Stokes flows with regularized forces. <i>Communications in Applied Mathematics and Computational Science</i> , 2012 , 7, 33-62	1.1	28
27	A Weak Formulation of the Immersed Boundary Method. <i>SIAM Journal of Scientific Computing</i> , 2012 , 34, A1010-A1026	2.6	
26	Effect of regularized delta function on accuracy of immersed boundary method. <i>Applied Mathematics and Mechanics (English Edition)</i> , 2012 , 33, 1453-1466	3.2	
25	Accurate computation of Stokes flow driven by an open immersed interface. <i>Journal of Computational Physics</i> , 2012 , 231, 5195-5215	4.1	1
24	A study of different modeling choices for simulating platelets within the immersed boundary method. <i>Applied Numerical Mathematics</i> , 2013 , 63, 58-77	2.5	16
23	A radial basis function (RBF) finite difference method for the simulation of reaction-diffusion equations on stationary platelets within the augmented forcing method. <i>International Journal for Numerical Methods in Fluids</i> , 2014 , 75, 1-22	1.9	22
22	An immersed boundary lattice Boltzmann approach to study the dynamics of elastic membranes in viscous shear flows. <i>Journal of Computational Science</i> , 2014 , 5, 709-718	3.4	13
21	An Immersed Boundary Method for Two-fluid Mixtures. <i>Journal of Computational Physics</i> , 2014 , 262, 231-243	4.1	10
20	Augmenting the immersed boundary method with Radial Basis Functions (RBFs) for the modeling of platelets in hemodynamic flows. <i>International Journal for Numerical Methods in Fluids</i> , 2015 , 79, 536-557	1.9	9
19	An Unconditionally Energy Stable Penalty Immersed Boundary Method for Simulating the Dynamics of an Inextensible Interface Interacting with a Solid Particle. <i>Journal of Scientific Computing</i> , 2015 , 64, 289-316	2.3	4
18	A numerical study of the benefits of driving jellyfish bells at their natural frequency. <i>Journal of Theoretical Biology</i> , 2015 , 374, 13-25	2.3	28
17	Lift vs. drag based mechanisms for vertical force production in the smallest flying insects. <i>Journal of Theoretical Biology</i> , 2015 , 384, 105-20	2.3	39
16	A pre-conditioned implicit direct forcing based immersed boundary method for incompressible viscous flows. <i>Journal of Computational Physics</i> , 2016 , 314, 774-799	4.1	10
15	IB2d Reloaded: A more powerful Python and MATLAB implementation of the immersed boundary method. <i>Mathematical Methods in the Applied Sciences</i> , 2018 , 41, 8455-8480	2.3	15

14	Interactive 3D simulation for fluid-structure interactions using dual coupled GPUs. <i>Journal of Supercomputing</i> , 2018 , 74, 37-64	2.5	4
13	Flow Structure and Force Generation on Flapping Wings at Low Reynolds Numbers Relevant to the Flight of Tiny Insects. <i>Fluids</i> , 2018 , 3, 45	1.6	11
12	Naut Your Everyday Jellyfish Model: Exploring How Tentacles and Oral Arms Impact Locomotion. <i>Fluids</i> , 2019 , 4, 169	1.6	8
11	Simulating vortex induced vibration of an impulsively started flexible filament by an implicit IB-IB coupling scheme. <i>Computers and Mathematics With Applications</i> , 2020 , 79, 159-173	2.7	3
10	A Swing of Beauty: Pendulums, Fluids, Forces, and Computers. <i>Fluids</i> , 2020 , 5, 48	1.6	2
9	Hopscotching jellyfish: combining different duty cycle kinematics can lead to enhanced swimming performance. <i>Bioinspiration and Biomimetics</i> , 2021 , 16,	2.6	
8	Heart Simulation by an Immersed Boundary Method with Formal Second-order Accuracy and Reduced Numerical Viscosity. 2001 , 429-444		7
7	A Microscale Model of Microbial Transport in Porous Media. <i>Water Science and Technology Library</i> , 1994 , 441-448	0.3	2
6	A partially implicit hybrid method for computing interface motion in Stokes flow. <i>Discrete and Continuous Dynamical Systems - Series B</i> , 2012 , 17, 1139-1153	1.3	4
5	A Numerical Method for Simulating Fast-Swimming Motions. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2001 , 65-70	0.5	
4	A Fluid-Structure Interaction Model of Ciliary Beating. <i>The IMA Volumes in Mathematics and Its Applications</i> , 2001 , 71-79	0.5	
3	Exploring the sensitivity in jellyfish locomotion under variations in scale, frequency, and duty cycle. <i>Journal of Mathematical Biology</i> , 2021 , 83, 56	2	0
2	Passive concentration dynamics incorporated into the library IB2d, a two-dimensional implementation of the immersed boundary method.. <i>Bioinspiration and Biomimetics</i> , 2022 ,	2.6	0
1	Optimal error bound for immersed weak Galerkin finite element method for elliptic interface problems. <i>Journal of Computational and Applied Mathematics</i> , 2022 , 416, 114567	2.4	0