

# Kenji Takizawa

## List of Publications by Year in Descending Order

**Source:** <https://exaly.com/author-pdf/7741952/kenji-takizawa-publications-by-year.pdf>

**Version:** 2024-04-29

This document has been generated based on the publications and citations recorded by exaly.com. 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.

160  
papers

7,203  
citations

56  
h-index

80  
g-index

173  
ext. papers

8,045  
ext. citations

3.2  
avg, IF

6.62  
L-index

#	Paper	IF	Citations
160	Wind turbine wake computation with the ST-VMS method and isogeometric discretization: Directional preference in spatial refinement. <i>Computational Mechanics</i> , <b>2022</b> , 69, 1031	4	2
159	Computational flow analysis with boundary layer and contact representation: I. Tire aerodynamics with road contact. <i>Journal of Mechanics</i> , <b>2022</b> , 38, 77-87	1	3
158	Space-time Flow Computation with Contact Between the Moving Solid Surfaces <b>2022</b> , 517-525		2
157	Numerical Study for Blood Flows in Thoracic Aorta. <i>SEMA SIMAI Springer Series</i> , <b>2022</b> , 195-203	0.2	
156	Space-time Computational FSI and Flow Analysis: 2004 and Beyond <b>2022</b> , 537-544		2
155	Computational flow analysis with boundary layer and contact representation: II. Heart valve flow with leaflet contact. <i>Journal of Mechanics</i> , <b>2022</b> , 38, 185-194	1	2
154	Space-time VMS isogeometric analysis of the Taylor-Couette flow. <i>Computational Mechanics</i> , <b>2021</b> , 67, 1515-1541	4	5
153	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: II. Spatial and temporal resolution. <i>Computational Mechanics</i> , <b>2021</b> , 68, 175-184	4	4
152	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: I. Computational framework. <i>Computational Mechanics</i> , <b>2021</b> , 68, 113-130	4	5
151	Gas turbine computational flow and structure analysis with isogeometric discretization and a complex-geometry mesh generation method. <i>Computational Mechanics</i> , <b>2021</b> , 67, 57-84	4	18
150	A linear-elasticity-based mesh moving method with no cycle-to-cycle accumulated distortion. <i>Computational Mechanics</i> , <b>2021</b> , 67, 413-434	4	7
149	U-duct turbulent-flow computation with the ST-VMS method and isogeometric discretization. <i>Computational Mechanics</i> , <b>2021</b> , 67, 823-843	4	5
148	Element-splitting-invariant local-length-scale calculation in B-Spline meshes for complex geometries. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2020</b> , 30, 2139-2174	3.5	10
147	A low-distortion mesh moving method based on fiber-reinforced hyperelasticity and optimized zero-stress state. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1567-1591	4	15
146	Computational analysis of particle-laden-airflow erosion and experimental verification. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1549-1565	4	10
145	Ventricle-valve-aorta flow analysis with the Space-time Isogeometric Discretization and Topology Change. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1343-1363	4	29
144	Heart valve isogeometric sequentially-coupled FSI analysis with the space-time topology change method. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1167-1187	4	31

143	Wind Turbine and Turbomachinery Computational Analysis with the ALE and Space-Time Variational Multiscale Methods and Isogeometric Discretization <b>2020</b> , 4, 1		14
142	Computational Flow Analysis in Aerospace, Energy and Transportation Technologies with the Variational Multiscale Methods <b>2020</b> , 4, 83		14
141	Computational Cardiovascular Analysis with the Variational Multiscale Methods and Isogeometric Discretization. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2020</b> , 151-193	0.8	9
140	ALE and Space-Time Variational Multiscale Isogeometric Analysis of Wind Turbines and Turbomachinery. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2020</b> , 195-233	0.8	8
139	Variational Multiscale Flow Analysis in Aerospace, Energy and Transportation Technologies. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2020</b> , 235-280	0.8	8
138	Anatomically realistic lumen motion representation in patient-specific space-time isogeometric flow analysis of coronary arteries with time-dependent medical-image data <b>2020</b> , 65, 395		1
137	Element length calculation in B-spline meshes for complex geometries <b>2020</b> , 65, 1085		1
136	Element length calculation in B-spline meshes for complex geometries. <i>Computational Mechanics</i> , <b>2020</b> , 65, 1085-1103	4	20
135	Space-Time Variational Multiscale Isogeometric Analysis of a tsunami-shelter vertical-axis wind turbine. <i>Computational Mechanics</i> , <b>2020</b> , 66, 1443-1460	4	14
134	Anatomically realistic lumen motion representation in patient-specific space-time isogeometric flow analysis of coronary arteries with time-dependent medical-image data. <i>Computational Mechanics</i> , <b>2020</b> , 65, 395-404	4	26
133	Space-Time VMS flow analysis of a turbocharger turbine with isogeometric discretization: computations with time-dependent and steady-inflow representations of the intake/exhaust cycle. <i>Computational Mechanics</i> , <b>2019</b> , 64, 1403-1419	4	31
132	Computational analysis methods for complex unsteady flow problems. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 825-838	3.5	16
131	A stabilized ALE method for computational fluid-structure interaction analysis of passive morphing in turbomachinery. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 967-994	3.5	27
130	Computational analysis of performance deterioration of a wind turbine blade strip subjected to environmental erosion. <i>Computational Mechanics</i> , <b>2019</b> , 64, 1133-1153	4	32
129	Methods for computation of flow-driven string dynamics in a pump and residence time. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 839-870	3.5	33
128	Space-Time Isogeometric flow analysis with built-in Reynolds-equation limit. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 871-904	3.5	29
127	Medical-image-based aorta modeling with zero-stress-state estimation. <i>Computational Mechanics</i> , <b>2019</b> , 64, 249-271	4	23
126	Mesh refinement influence and cardiac-cycle flow periodicity in aorta flow analysis with isogeometric discretization. <i>Computers and Fluids</i> , <b>2019</b> , 179, 790-798	2.8	39

125	Turbocharger turbine and exhaust manifold flow computation with the SpaceTime Variational Multiscale Method and Isogeometric Analysis. <i>Computers and Fluids</i> , <b>2019</b> , 179, 764-776	2.8	43
124	Isogeometric hyperelastic shell analysis with out-of-plane deformation mapping. <i>Computational Mechanics</i> , <b>2019</b> , 63, 681-700	4	29
123	Compressible-flow geometric-porosity modeling and spacecraft parachute computation with isogeometric discretization. <i>Computational Mechanics</i> , <b>2019</b> , 63, 301-321	4	44
122	Computational analysis of flow-driven string dynamics in a pump and residence time calculation. <i>IOP Conference Series: Earth and Environmental Science</i> , <b>2019</b> , 240, 062014	0.3	23
121	SpaceTime computational analysis of tire aerodynamics with actual geometry, road contact, tire deformation, road roughness and fluid film. <i>Computational Mechanics</i> , <b>2019</b> , 64, 1699-1718	4	26
120	A node-numbering-invariant directional length scale for simplex elements. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2019</b> , 29, 2719-2753	3.5	18
119	Computational Cardiovascular Flow Analysis with the Variational Multiscale Methods <b>2019</b> , 3, 366		21
118	Aorta zero-stress state modeling with T-spline discretization. <i>Computational Mechanics</i> , <b>2019</b> , 63, 1315-1331		17
117	Tire aerodynamics with actual tire geometry, road contact and tire deformation. <i>Computational Mechanics</i> , <b>2019</b> , 63, 1165-1185	4	43
116	SpaceTime computations in practical engineering applications: a summary of the 25-year history. <i>Computational Mechanics</i> , <b>2019</b> , 63, 747-753	4	31
115	Computer Modeling of Wind Turbines: 1. ALE-VMS and ST-VMS Aerodynamic and FSI Analysis. <i>Archives of Computational Methods in Engineering</i> , <b>2019</b> , 26, 1059-1099	7.8	32
114	Stabilization and discontinuity-capturing parameters for spaceTime flow computations with finite element and isogeometric discretizations. <i>Computational Mechanics</i> , <b>2018</b> , 62, 1169-1186	4	50
113	Heart Valve Flow Computation with the SpaceTime Slip Interface Topology Change (ST-SI-TC) Method and Isogeometric Analysis (IGA). <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2018</b> , 77-99	0.3	36
112	Estimation of Element-Based Zero-Stress State in Arterial FSI Computations with Isogeometric Wall Discretization. <i>Lecture Notes in Applied and Computational Mechanics</i> , <b>2018</b> , 101-122	0.3	22
111	A General-Purpose NURBS Mesh Generation Method for Complex Geometries. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2018</b> , 399-434	0.8	42
110	Aorta Flow Analysis and Heart Valve Flow and Structure Analysis. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2018</b> , 29-89	0.8	37
109	Recent Advances in ALE-VMS and ST-VMS Computational Aerodynamic and FSI Analysis of Wind Turbines. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2018</b> , 253-336	0.8	32
108	SpaceTime Computational Analysis of Tire Aerodynamics with Actual Geometry, Road Contact, and Tire Deformation. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2018</b> , 337-376	0.8	31

107	Turbocharger flow computations with the SpaceTime Isogeometric Analysis (ST-IGA). <i>Computers and Fluids</i> , <b>2017</b> , 142, 15-20	2.8	80
106	Computational analysis of flow-driven string dynamics in turbomachinery. <i>Computers and Fluids</i> , <b>2017</b> , 142, 109-117	2.8	53
105	Porosity models and computational methods for compressible-flow aerodynamics of parachutes with geometric porosity. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2017</b> , 27, 771-806	3.5	57
104	SpaceTime VMS computational flow analysis with isogeometric discretization and a general-purpose NURBS mesh generation method. <i>Computers and Fluids</i> , <b>2017</b> , 158, 189-200	2.8	57
103	Finite elements in flow problems 2015, Taiwan. <i>Computers and Fluids</i> , <b>2017</b> , 142, 1-2	2.8	
102	FluidStructure Interaction and Flows with Moving Boundaries and Interfaces <b>2017</b> , 1-53		3
101	Aorta modeling with the element-based zero-stress state and isogeometric discretization. <i>Computational Mechanics</i> , <b>2017</b> , 59, 265-280	4	24
100	Heart valve flow computation with the integrated SpaceTime VMS, Slip Interface, Topology Change and Isogeometric Discretization methods. <i>Computers and Fluids</i> , <b>2017</b> , 158, 176-188	2.8	69
99	Computational analysis of wind-turbine blade rain erosion. <i>Computers and Fluids</i> , <b>2016</b> , 141, 175-183	2.8	51
98	SUPG/PSPG Computational Analysis of Rain Erosion in Wind-Turbine Blades. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2016</b> , 77-96	0.8	12
97	Ram-air parachute structural and fluid mechanics computations with the SpaceTime Isogeometric Analysis (ST-IGA). <i>Computers and Fluids</i> , <b>2016</b> , 141, 191-200	2.8	69
96	Computational thermo-fluid analysis of a disk brake. <i>Computational Mechanics</i> , <b>2016</b> , 57, 965-977	4	66
95	SpaceTime method for flow computations with slip interfaces and topology changes (ST-SI-TC). <i>Computers and Fluids</i> , <b>2016</b> , 141, 124-134	2.8	61
94	New Directions in SpaceTime Computational Methods. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2016</b> , 159-178	0.8	31
93	A Geometrical-Characteristics Study in Patient-Specific FSI Analysis of Blood Flow in the Thoracic Aorta. <i>Modeling and Simulation in Science, Engineering and Technology</i> , <b>2016</b> , 379-386	0.8	30
92	SpaceTime VMS method for flow computations with slip interfaces (ST-SI). <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2015</b> , 25, 2377-2406	3.5	86
91	New directions and challenging computations in fluid dynamics modeling with stabilized and multiscale methods. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2015</b> , 25, 2217-2226	3.5	63
90	Special methods for aerodynamic-moment calculations from parachute FSI modeling. <i>Computational Mechanics</i> , <b>2015</b> , 55, 1059-1069	4	60

89	Multiscale space-time methods for thermo-fluid analysis of a ground vehicle and its tires. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2015</b> , 25, 2227-2255	3.5	93
88	FSI modeling of the Orion spacecraft drogue parachutes. <i>Computational Mechanics</i> , <b>2015</b> , 55, 1167-1179	4	64
87	Space-time computational analysis of MAV flapping-wing aerodynamics with wing clapping. <i>Computational Mechanics</i> , <b>2015</b> , 55, 1131-1141	4	88
86	2A23 Arterial Wall Modeling and Medical Image Mapping Based on Element-Based Zero-Stress State Estimation Method. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME</i> , <b>2015</b> , 2015.27, 315-316	0	
85	Sequentially-coupled space-time FSI analysis of bio-inspired flapping-wing aerodynamics of an MAV. <i>Computational Mechanics</i> , <b>2014</b> , 54, 213-233	4	95
84	Estimation of element-based zero-stress state for arterial FSI computations. <i>Computational Mechanics</i> , <b>2014</b> , 54, 895-910	4	40
83	Computational engineering analysis with the new-generation space-time methods. <i>Computational Mechanics</i> , <b>2014</b> , 54, 193-211	4	89
82	Patient-Specific Cardiovascular Fluid Mechanics Analysis with the ST and ALE-VMS Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2014</b> , 71-102	0.4	6
81	Engineering Analysis and Design with ALE-VMS and Space-time Methods. <i>Archives of Computational Methods in Engineering</i> , <b>2014</b> , 21, 481-508	7.8	95
80	Aerodynamic and FSI Analysis of Wind Turbines with the ALE-VMS and ST-VMS Methods. <i>Archives of Computational Methods in Engineering</i> , <b>2014</b> , 21, 359-398	7.8	89
79	Fluid-structure Interaction Modeling of Patient-Specific Cerebral Aneurysms. <i>Lecture Notes in Computational Vision and Biomechanics</i> , <b>2014</b> , 25-45	0.3	2
78	Coronary arterial dynamics computation with medical-image-based time-dependent anatomical models and element-based zero-stress state estimates. <i>Computational Mechanics</i> , <b>2014</b> , 54, 1047-1053	4	39
77	Biomedical fluid mechanics and fluid-structure interaction. <i>Computational Mechanics</i> , <b>2014</b> , 54, 893-893	4	1
76	Space-time interface-tracking with topology change (ST-TC). <i>Computational Mechanics</i> , <b>2014</b> , 54, 955-971	4	104
75	Space-time fluid mechanics computation of heart valve models. <i>Computational Mechanics</i> , <b>2014</b> , 54, 973-986	4	98
74	A variational multiscale method for particle-cloud tracking in turbomachinery flows. <i>Computational Mechanics</i> , <b>2014</b> , 54, 1191-1202	4	43
73	FSI analysis of the blood flow and geometrical characteristics in the thoracic aorta. <i>Computational Mechanics</i> , <b>2014</b> , 54, 1035-1045	4	76
72	Main aspects of the space-time computational FSI techniques and examples of challenging problems solved. <i>Mechanical Engineering Reviews</i> , <b>2014</b> , 1, CM0005-CM0005	4.7	3

71	FSI modeling of the reefed stages and disreefing of the Orion spacecraft parachutes. <i>Computational Mechanics</i> , <b>2014</b> , 54, 1203-1220	4	71
70	Multiscale methods for gore curvature calculations from FSI modeling of spacecraft parachutes. <i>Computational Mechanics</i> , <b>2014</b> , 54, 1461-1476	4	60
69	ST and ALE-VMS methods for patient-specific cardiovascular fluid mechanics modeling. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2014</b> , 24, 2437-2486	3.5	98
68	SpaceTime computation techniques with continuous representation in time (ST-C). <i>Computational Mechanics</i> , <b>2014</b> , 53, 91-99	4	69
67	SpaceTime VMS computation of wind-turbine rotor and tower aerodynamics. <i>Computational Mechanics</i> , <b>2014</b> , 53, 1-15	4	111
66	Computational Engineering Analysis and Design with ALE-VMS and ST Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2014</b> , 321-353	0.4	3
65	Computational Wind-Turbine Analysis with the ALE-VMS and ST-VMS Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , <b>2014</b> , 355-386	0.4	
64	FluidStructure interaction modeling of clusters of spacecraft parachutes with modified geometric porosity. <i>Computational Mechanics</i> , <b>2013</b> , 52, 1351-1364	4	90
63	Patient-specific computational analysis of the influence of a stent on the unsteady flow in cerebral aneurysms. <i>Computational Mechanics</i> , <b>2013</b> , 51, 1061-1073	4	90
62	CHALLENGES AND DIRECTIONS IN COMPUTATIONAL FLUIDSTRUCTURE INTERACTION. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2013</b> , 23, 215-221	3.5	103
61	Computer modeling techniques for flapping-wing aerodynamics of a locust. <i>Computers and Fluids</i> , <b>2013</b> , 85, 125-134	2.8	80
60	METHODS FOR FSI MODELING OF SPACECRAFT PARACHUTE DYNAMICS AND COVER SEPARATION. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2013</b> , 23, 307-338	3.5	103
59	SPACETIME VMS METHODS FOR MODELING OF INCOMPRESSIBLE FLOWS AT HIGH REYNOLDS NUMBERS. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2013</b> , 23, 223-248	3.5	73
58	<b>2013</b> ,		229
57	ALE-VMS AND ST-VMS METHODS FOR COMPUTER MODELING OF WIND-TURBINE ROTOR AERODYNAMICS AND FLUIDSTRUCTURE INTERACTION. <i>Mathematical Models and Methods in Applied Sciences</i> , <b>2012</b> , 22, 1230002	3.5	131
56	Computational fluid mechanics and fluidStructure interaction. <i>Computational Mechanics</i> , <b>2012</b> , 50, 665-665		2
55	Governing Equations of Fluid and Structural Mechanics <b>2012</b> , 1-35		
54	Basics of the Finite Element Method for Nonmoving-Domain Problems <b>2012</b> , 37-72		

53 Basics of the Isogeometric Analysis **2012**, 73-81

52 ALE and Space-Time Methods for Moving Boundaries and Interfaces **2012**, 83-109

51 ALE and Space-Time Methods for FSI **2012**, 111-137

50 Advanced FSI and Space-Time Techniques **2012**, 139-169

49 General Applications and Examples of FSI Modeling **2012**, 171-190

48 Cardiovascular FSI **2012**, 191-258

47 Parachute FSI **2012**, 259-314

46 Wind-Turbine Aerodynamics and FSI **2012**, 315-351

45 Patient-specific computer modeling of blood flow in cerebral arteries with aneurysm and stent. *Computational Mechanics*, **2012**, 50, 675-686 4 82

44 Space-time techniques for computational aerodynamics modeling of flapping wings of an actual locust. *Computational Mechanics*, **2012**, 50, 743-760 4 110

43 Space-time computational analysis of bio-inspired flapping-wing aerodynamics of a micro aerial vehicle. *Computational Mechanics*, **2012**, 50, 761-778 4 100

42 Fluid-structure interaction modeling of ringsail parachutes with disreefing and modified geometric porosity. *Computational Mechanics*, **2012**, 50, 835-854 4 74

41 Computational Methods for Parachute Fluid-Structure Interactions. *Archives of Computational Methods in Engineering*, **2012**, 19, 125-169 7.8 132

40 Space-time and ALE-VMS Techniques for Patient-Specific Cardiovascular Fluid-Structure Interaction Modeling. *Archives of Computational Methods in Engineering*, **2012**, 19, 171-225 7.8 152

39 Fluid-Structure Interaction Modeling of Spacecraft Parachutes for Simulation-Based Design. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79, 2.7 34

38 A Comparative Study Based on Patient-Specific Fluid-Structure Interaction Modeling of Cerebral Aneurysms. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79, 2.7 38

37 SPACE-TIME FLUID-STRUCTURE INTERACTION METHODS. *Mathematical Models and Methods in Applied Sciences*, **2012**, 22, 1230001 3.5 136

36 Space-Time Computational Techniques for the Aerodynamics of Flapping Wings. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79, 2.7 109

35	Bringing them Down Safely. <i>Mechanical Engineering</i> , <b>2012</b> , 134, 34-37	0.9	8
34	Multiscale space-time fluid-structure interaction techniques. <i>Computational Mechanics</i> , <b>2011</b> , 48, 247-267	4	208
33	Stabilized space-time computation of wind-turbine rotor aerodynamics. <i>Computational Mechanics</i> , <b>2011</b> , 48, 333-344	4	117
32	Space-time FSI modeling and dynamical analysis of spacecraft parachutes and parachute clusters. <i>Computational Mechanics</i> , <b>2011</b> , 48, 345-364	4	76
31	Numerical-performance studies for the stabilized space-time computation of wind-turbine rotor aerodynamics. <i>Computational Mechanics</i> , <b>2011</b> , 48, 647-657	4	111
30	A parallel sparse algorithm targeting arterial fluid mechanics computations. <i>Computational Mechanics</i> , <b>2011</b> , 48, 377-384	4	33
29	Fluid-structure interaction modeling and performance analysis of the Orion spacecraft parachutes. <i>International Journal for Numerical Methods in Fluids</i> , <b>2011</b> , 65, 271-285	1.9	57
28	Fluid-structure interaction modeling of parachute clusters. <i>International Journal for Numerical Methods in Fluids</i> , <b>2011</b> , 65, 286-307	1.9	75
27	Patient-specific arterial fluid-structure interaction modeling of cerebral aneurysms. <i>International Journal for Numerical Methods in Fluids</i> , <b>2011</b> , 65, 308-323	1.9	70
26	3D simulation of wind turbine rotors at full scale. Part I: Geometry modeling and aerodynamics. <i>International Journal for Numerical Methods in Fluids</i> , <b>2011</b> , 65, 207-235	1.9	245
25	Nested and parallel sparse algorithms for arterial fluid mechanics computations with boundary layer mesh refinement. <i>International Journal for Numerical Methods in Fluids</i> , <b>2011</b> , 65, 135-149	1.9	42
24	Space-time fluid-structure interaction modeling of patient-specific cerebral aneurysms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2011</b> , 27, 1665-1710	2.6	85
23	Multiscale sequentially-coupled arterial FSI technique. <i>Computational Mechanics</i> , <b>2010</b> , 46, 17-29	4	81
22	Wall shear stress calculations in space-time finite element computation of arterial fluid-structure interactions. <i>Computational Mechanics</i> , <b>2010</b> , 46, 31-41	4	90
21	Solution of linear systems in arterial fluid mechanics computations with boundary layer mesh refinement. <i>Computational Mechanics</i> , <b>2010</b> , 46, 83-89	4	45
20	Space-time finite element computation of complex fluid-structure interactions. <i>International Journal for Numerical Methods in Fluids</i> , <b>2010</b> , 64, 1201-1218	1.9	126
19	Space-time finite element computation of arterial fluid-structure interactions with patient-specific data. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , <b>2010</b> , 26, 101-116	2.6	101
18	Recent Advances of Multi-phase Flow Computation with the Adaptive Soroban-grid Cubic Interpolated Propagation (CIP) Method <b>2009</b> , 29-43		

17	Conservative form of interpolated differential operator scheme for compressible and incompressible fluid dynamics. <i>Journal of Computational Physics</i> , <b>2008</b> , 227, 2263-2285	4.1	29
16	Ship hydrodynamics computations with the CIP method based on adaptive Soroban grids. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 54, 1011-1019	1.9	24
15	Computation of fluid-solid and fluid-fluid interfaces with the CIP method based on adaptive Soroban grids. An overview. <i>International Journal for Numerical Methods in Fluids</i> , <b>2007</b> , 54, 841-853	1.9	16
14	Computation of free-surface flows and fluid-object interactions with the CIP method based on adaptive meshless soroban grids. <i>Computational Mechanics</i> , <b>2007</b> , 40, 167-183	4	55
13	The Analysis of Electromagnetic Waves Using CIP Scheme with Soroban Grid <b>2006</b> , 141-146		1
12	Simulation and experiment on swimming fish and skimmer by CIP method. <i>Computers and Structures</i> , <b>2005</b> , 83, 397-408	4.5	10
11	Challenge of CIP as a universal solver for solid, liquid and gas. <i>International Journal for Numerical Methods in Fluids</i> , <b>2005</b> , 47, 655-676	1.9	21
10	Higher-order schemes with CIP method and adaptive Soroban grid towards mesh-free scheme. <i>Journal of Computational Physics</i> , <b>2004</b> , 194, 57-77	4.1	60
9	A New Paradigm of Computer Graphics by Universal Solver for Solid, Liquid and Gas. <i>JSME International Journal Series B</i> , <b>2004</b> , 47, 656-663		1
8	Experimental Research on Rotating Skimmer <b>2003</b> , 515		1
7	Three-Dimensional Simulation of Skimmer on Water <b>2003</b> , 509		
6	The next generation CIP as a conservative semi-Lagrangian solver for solid, liquid and gas. <i>Journal of Computational and Applied Mathematics</i> , <b>2002</b> , 149, 267-277	2.4	22
5	Multi-dimensional semi-Lagrangian scheme that guarantees exact conservation. <i>Computer Physics Communications</i> , <b>2002</b> , 148, 137-159	4.2	18
4	Three-Phase Flow Calculation With Conservative Semi-Lagrangian CIP Method <b>2002</b> , 467		
3	Exactly Conservative Semi-Lagrangian Scheme for Multi-dimensional Hyperbolic Equations with Directional Splitting Technique. <i>Journal of Computational Physics</i> , <b>2001</b> , 174, 171-207	4.1	116
2	Patient-Specific Computational Fluid Mechanics of Cerebral Arteries with Aneurysm and Stent <b>119-147</b>		2
1	Space-time isogeometric analysis of car and tire aerodynamics with road contact and tire deformation and rotation. <i>Computational Mechanics</i> , <b>1</b>	4	3