

Kenji Takizawa

List of Publications by Citations

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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	3D simulation of wind turbine rotors at full scale. Part I: Geometry modeling and aerodynamics. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 207-235	1.9	245
159	2013 ,		229
158	Multiscale space-time fluid-structure interaction techniques. <i>Computational Mechanics</i> , 2011 , 48, 247-267	4	208
157	Space-time and ALE-VMS Techniques for Patient-Specific Cardiovascular Fluid-Structure Interaction Modeling. <i>Archives of Computational Methods in Engineering</i> , 2012 , 19, 171-225	7.8	152
156	SPACE-TIME FLUID-STRUCTURE INTERACTION METHODS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012 , 22, 1230001	3.5	136
155	Computational Methods for Parachute Fluid-Structure Interactions. <i>Archives of Computational Methods in Engineering</i> , 2012 , 19, 125-169	7.8	132
154	ALE-VMS AND ST-VMS METHODS FOR COMPUTER MODELING OF WIND-TURBINE ROTOR AERODYNAMICS AND FLUID-STRUCTURE INTERACTION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2012 , 22, 1230002	3.5	131
153	Space-time finite element computation of complex fluid-structure interactions. <i>International Journal for Numerical Methods in Fluids</i> , 2010 , 64, 1201-1218	1.9	126
152	Stabilized space-time computation of wind-turbine rotor aerodynamics. <i>Computational Mechanics</i> , 2011 , 48, 333-344	4	117
151	Exactly Conservative Semi-Lagrangian Scheme for Multi-dimensional Hyperbolic Equations with Directional Splitting Technique. <i>Journal of Computational Physics</i> , 2001 , 174, 171-207	4.1	116
150	Space-time VMS computation of wind-turbine rotor and tower aerodynamics. <i>Computational Mechanics</i> , 2014 , 53, 1-15	4	111
149	Numerical-performance studies for the stabilized space-time computation of wind-turbine rotor aerodynamics. <i>Computational Mechanics</i> , 2011 , 48, 647-657	4	111
148	Space-time techniques for computational aerodynamics modeling of flapping wings of an actual locust. <i>Computational Mechanics</i> , 2012 , 50, 743-760	4	110
147	Space-Time Computational Techniques for the Aerodynamics of Flapping Wings. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	109
146	Space-time interface-tracking with topology change (ST-TC). <i>Computational Mechanics</i> , 2014 , 54, 955-971	4	104
145	CHALLENGES AND DIRECTIONS IN COMPUTATIONAL FLUID-STRUCTURE INTERACTION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013 , 23, 215-221	3.5	103
144	METHODS FOR FSI MODELING OF SPACECRAFT PARACHUTE DYNAMICS AND COVER SEPARATION. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013 , 23, 307-338	3.5	103

143	Space-time finite element computation of arterial fluid-structure interactions with patient-specific data. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2010 , 26, 101-116	2.6	101
142	Space-time computational analysis of bio-inspired flapping-wing aerodynamics of a micro aerial vehicle. <i>Computational Mechanics</i> , 2012 , 50, 761-778	4	100
141	Space-time fluid mechanics computation of heart valve models. <i>Computational Mechanics</i> , 2014 , 54, 973-986	4	98
140	ST and ALE-VMS methods for patient-specific cardiovascular fluid mechanics modeling. <i>Mathematical Models and Methods in Applied Sciences</i> , 2014 , 24, 2437-2486	3.5	98
139	Sequentially-coupled space-time FSI analysis of bio-inspired flapping-wing aerodynamics of an MAV. <i>Computational Mechanics</i> , 2014 , 54, 213-233	4	95
138	Engineering Analysis and Design with ALE-VMS and Space-time Methods. <i>Archives of Computational Methods in Engineering</i> , 2014 , 21, 481-508	7.8	95
137	Multiscale space-time methods for thermo-fluid analysis of a ground vehicle and its tires. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015 , 25, 2227-2255	3.5	93
136	Fluid-structure interaction modeling of clusters of spacecraft parachutes with modified geometric porosity. <i>Computational Mechanics</i> , 2013 , 52, 1351-1364	4	90
135	Patient-specific computational analysis of the influence of a stent on the unsteady flow in cerebral aneurysms. <i>Computational Mechanics</i> , 2013 , 51, 1061-1073	4	90
134	Wall shear stress calculations in space-time finite element computation of arterial fluid-structure interactions. <i>Computational Mechanics</i> , 2010 , 46, 31-41	4	90
133	Computational engineering analysis with the new-generation space-time methods. <i>Computational Mechanics</i> , 2014 , 54, 193-211	4	89
132	Aerodynamic and FSI Analysis of Wind Turbines with the ALE-VMS and ST-VMS Methods. <i>Archives of Computational Methods in Engineering</i> , 2014 , 21, 359-398	7.8	89
131	Space-time computational analysis of MAV flapping-wing aerodynamics with wing clapping. <i>Computational Mechanics</i> , 2015 , 55, 1131-1141	4	88
130	Space-time VMS method for flow computations with slip interfaces (ST-SI). <i>Mathematical Models and Methods in Applied Sciences</i> , 2015 , 25, 2377-2406	3.5	86
129	Space-time fluid-structure interaction modeling of patient-specific cerebral aneurysms. <i>International Journal for Numerical Methods in Biomedical Engineering</i> , 2011 , 27, 1665-1710	2.6	85
128	Patient-specific computer modeling of blood flow in cerebral arteries with aneurysm and stent. <i>Computational Mechanics</i> , 2012 , 50, 675-686	4	82
127	Multiscale sequentially-coupled arterial FSI technique. <i>Computational Mechanics</i> , 2010 , 46, 17-29	4	81
126	Turbocharger flow computations with the Space-time Isogeometric Analysis (ST-IGA). <i>Computers and Fluids</i> , 2017 , 142, 15-20	2.8	80

125	Computer modeling techniques for flapping-wing aerodynamics of a locust. <i>Computers and Fluids</i> , 2013 , 85, 125-134	2.8	80
124	FSI analysis of the blood flow and geometrical characteristics in the thoracic aorta. <i>Computational Mechanics</i> , 2014 , 54, 1035-1045	4	76
123	SpaceTime FSI modeling and dynamical analysis of spacecraft parachutes and parachute clusters. <i>Computational Mechanics</i> , 2011 , 48, 345-364	4	76
122	FluidStructure interaction modeling of parachute clusters. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 286-307	1.9	75
121	FluidStructure interaction modeling of ringsail parachutes with disreefing and modified geometric porosity. <i>Computational Mechanics</i> , 2012 , 50, 835-854	4	74
120	SPACE TIME VMS METHODS FOR MODELING OF INCOMPRESSIBLE FLOWS AT HIGH REYNOLDS NUMBERS. <i>Mathematical Models and Methods in Applied Sciences</i> , 2013 , 23, 223-248	3.5	73
119	FSI modeling of the reefed stages and disreefing of the Orion spacecraft parachutes. <i>Computational Mechanics</i> , 2014 , 54, 1203-1220	4	71
118	Patient-specific arterial fluidStructure interaction modeling of cerebral aneurysms. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 308-323	1.9	70
117	Ram-air parachute structural and fluid mechanics computations with the SpaceTime Isogeometric Analysis (ST-IGA). <i>Computers and Fluids</i> , 2016 , 141, 191-200	2.8	69
116	Heart valve flow computation with the integrated SpaceTime VMS, Slip Interface, Topology Change and Isogeometric Discretization methods. <i>Computers and Fluids</i> , 2017 , 158, 176-188	2.8	69
115	SpaceTime computation techniques with continuous representation in time (ST-C). <i>Computational Mechanics</i> , 2014 , 53, 91-99	4	69
114	Computational thermo-fluid analysis of a disk brake. <i>Computational Mechanics</i> , 2016 , 57, 965-977	4	66
113	FSI modeling of the Orion spacecraft drogue parachutes. <i>Computational Mechanics</i> , 2015 , 55, 1167-1179	4	64
112	New directions and challenging computations in fluid dynamics modeling with stabilized and multiscale methods. <i>Mathematical Models and Methods in Applied Sciences</i> , 2015 , 25, 2217-2226	3.5	63
111	SpaceTime method for flow computations with slip interfaces and topology changes (ST-SI-TC). <i>Computers and Fluids</i> , 2016 , 141, 124-134	2.8	61
110	Special methods for aerodynamic-moment calculations from parachute FSI modeling. <i>Computational Mechanics</i> , 2015 , 55, 1059-1069	4	60
109	Multiscale methods for gore curvature calculations from FSI modeling of spacecraft parachutes. <i>Computational Mechanics</i> , 2014 , 54, 1461-1476	4	60
108	Higher-order schemes with CIP method and adaptive Soroban grid towards mesh-free scheme. <i>Journal of Computational Physics</i> , 2004 , 194, 57-77	4.1	60

107	Porosity models and computational methods for compressible-flow aerodynamics of parachutes with geometric porosity. <i>Mathematical Models and Methods in Applied Sciences</i> , 2017 , 27, 771-806	3.5	57
106	SpaceTime VMS computational flow analysis with isogeometric discretization and a general-purpose NURBS mesh generation method. <i>Computers and Fluids</i> , 2017 , 158, 189-200	2.8	57
105	Fluid-structure interaction modeling and performance analysis of the Orion spacecraft parachutes. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 271-285	1.9	57
104	Computation of free-surface flows and fluid-object interactions with the CIP method based on adaptive meshless soroban grids. <i>Computational Mechanics</i> , 2007 , 40, 167-183	4	55
103	Computational analysis of flow-driven string dynamics in turbomachinery. <i>Computers and Fluids</i> , 2017 , 142, 109-117	2.8	53
102	Computational analysis of wind-turbine blade rain erosion. <i>Computers and Fluids</i> , 2016 , 141, 175-183	2.8	51
101	Stabilization and discontinuity-capturing parameters for spaceTime flow computations with finite element and isogeometric discretizations. <i>Computational Mechanics</i> , 2018 , 62, 1169-1186	4	50
100	Solution of linear systems in arterial fluid mechanics computations with boundary layer mesh refinement. <i>Computational Mechanics</i> , 2010 , 46, 83-89	4	45
99	Compressible-flow geometric-porosity modeling and spacecraft parachute computation with isogeometric discretization. <i>Computational Mechanics</i> , 2019 , 63, 301-321	4	44
98	Turbocharger turbine and exhaust manifold flow computation with the SpaceTime Variational Multiscale Method and Isogeometric Analysis. <i>Computers and Fluids</i> , 2019 , 179, 764-776	2.8	43
97	A variational multiscale method for particle-cloud tracking in turbomachinery flows. <i>Computational Mechanics</i> , 2014 , 54, 1191-1202	4	43
96	Tire aerodynamics with actual tire geometry, road contact and tire deformation. <i>Computational Mechanics</i> , 2019 , 63, 1165-1185	4	43
95	Nested and parallel sparse algorithms for arterial fluid mechanics computations with boundary layer mesh refinement. <i>International Journal for Numerical Methods in Fluids</i> , 2011 , 65, 135-149	1.9	42
94	A General-Purpose NURBS Mesh Generation Method for Complex Geometries. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018 , 399-434	0.8	42
93	Estimation of element-based zero-stress state for arterial FSI computations. <i>Computational Mechanics</i> , 2014 , 54, 895-910	4	40
92	Mesh refinement influence and cardiac-cycle flow periodicity in aorta flow analysis with isogeometric discretization. <i>Computers and Fluids</i> , 2019 , 179, 790-798	2.8	39
91	Coronary arterial dynamics computation with medical-image-based time-dependent anatomical models and element-based zero-stress state estimates. <i>Computational Mechanics</i> , 2014 , 54, 1047-1053	4	39
90	A Comparative Study Based on Patient-Specific Fluid-Structure Interaction Modeling of Cerebral Aneurysms. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	38

89	Aorta Flow Analysis and Heart Valve Flow and Structure Analysis. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018 , 29-89	0.8	37
88	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> , 2018 , 77-99	0.3	36
87	Fluid-Structure Interaction Modeling of Spacecraft Parachutes for Simulation-Based Design. <i>Journal of Applied Mechanics, Transactions ASME</i> , 2012 , 79,	2.7	34
86	Methods for computation of flow-driven string dynamics in a pump and residence time. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 839-870	3.5	33
85	A parallel sparse algorithm targeting arterial fluid mechanics computations. <i>Computational Mechanics</i> , 2011 , 48, 377-384	4	33
84	Computational analysis of performance deterioration of a wind turbine blade strip subjected to environmental erosion. <i>Computational Mechanics</i> , 2019 , 64, 1133-1153	4	32
83	Computer Modeling of Wind Turbines: 1. ALE-VMS and ST-VMS Aerodynamic and FSI Analysis. <i>Archives of Computational Methods in Engineering</i> , 2019 , 26, 1059-1099	7.8	32
82	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> , 2018 , 253-336	0.8	32
81	SpaceTime 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> , 2019 , 64, 1403-1419	4	31
80	Heart valve isogeometric sequentially-coupled FSI analysis with the spaceTime topology change method. <i>Computational Mechanics</i> , 2020 , 65, 1167-1187	4	31
79	New Directions in SpaceTime Computational Methods. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2016 , 159-178	0.8	31
78	SpaceTime computations in practical engineering applications: a summary of the 25-year history. <i>Computational Mechanics</i> , 2019 , 63, 747-753	4	31
77	SpaceTime Computational Analysis of Tire Aerodynamics with Actual Geometry, Road Contact, and Tire Deformation. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2018 , 337-376	0.8	31
76	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> , 2016 , 379-386	0.8	30
75	SpaceTime Isogeometric flow analysis with built-in Reynolds-equation limit. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 871-904	3.5	29
74	Ventricle-valve-aorta flow analysis with the SpaceTime Isogeometric Discretization and Topology Change. <i>Computational Mechanics</i> , 2020 , 65, 1343-1363	4	29
73	Isogeometric hyperelastic shell analysis with out-of-plane deformation mapping. <i>Computational Mechanics</i> , 2019 , 63, 681-700	4	29
72	Conservative form of interpolated differential operator scheme for compressible and incompressible fluid dynamics. <i>Journal of Computational Physics</i> , 2008 , 227, 2263-2285	4.1	29

71	A stabilized ALE method for computational fluid-structure interaction analysis of passive morphing in turbomachinery. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 967-994	3.5	27
70	Space-time computational analysis of tire aerodynamics with actual geometry, road contact, tire deformation, road roughness and fluid film. <i>Computational Mechanics</i> , 2019 , 64, 1699-1718	4	26
69	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> , 2020 , 65, 395-404	4	26
68	Aorta modeling with the element-based zero-stress state and isogeometric discretization. <i>Computational Mechanics</i> , 2017 , 59, 265-280	4	24
67	Ship hydrodynamics computations with the CIP method based on adaptive Soroban grids. <i>International Journal for Numerical Methods in Fluids</i> , 2007 , 54, 1011-1019	1.9	24
66	Medical-image-based aorta modeling with zero-stress-state estimation. <i>Computational Mechanics</i> , 2019 , 64, 249-271	4	23
65	Computational analysis of flow-driven string dynamics in a pump and residence time calculation. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019 , 240, 062014	0.3	23
64	The next generation CIP as a conservative semi-Lagrangian solver for solid, liquid and gas. <i>Journal of Computational and Applied Mathematics</i> , 2002 , 149, 267-277	2.4	22
63	Estimation of Element-Based Zero-Stress State in Arterial FSI Computations with Isogeometric Wall Discretization. <i>Lecture Notes in Applied and Computational Mechanics</i> , 2018 , 101-122	0.3	22
62	Challenge of CIP as a universal solver for solid, liquid and gas. <i>International Journal for Numerical Methods in Fluids</i> , 2005 , 47, 655-676	1.9	21
61	Computational Cardiovascular Flow Analysis with the Variational Multiscale Methods 2019 , 3, 366		21
60	Element length calculation in B-spline meshes for complex geometries. <i>Computational Mechanics</i> , 2020 , 65, 1085-1103	4	20
59	A node-numbering-invariant directional length scale for simplex elements. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 2719-2753	3.5	18
58	Multi-dimensional semi-Lagrangian scheme that guarantees exact conservation. <i>Computer Physics Communications</i> , 2002 , 148, 137-159	4.2	18
57	Gas turbine computational flow and structure analysis with isogeometric discretization and a complex-geometry mesh generation method. <i>Computational Mechanics</i> , 2021 , 67, 57-84	4	18
56	Aorta zero-stress state modeling with T-spline discretization. <i>Computational Mechanics</i> , 2019 , 63, 1315-1331	4.3	17
55	Computational analysis methods for complex unsteady flow problems. <i>Mathematical Models and Methods in Applied Sciences</i> , 2019 , 29, 825-838	3.5	16
54	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> , 2007 , 54, 841-853	1.9	16

53	A low-distortion mesh moving method based on fiber-reinforced hyperelasticity and optimized zero-stress state. <i>Computational Mechanics</i> , 2020 , 65, 1567-1591	4	15
52	Wind Turbine and Turbomachinery Computational Analysis with the ALE and Space-Time Variational Multiscale Methods and Isogeometric Discretization 2020 , 4, 1		14
51	Computational Flow Analysis in Aerospace, Energy and Transportation Technologies with the Variational Multiscale Methods 2020 , 4, 83		14
50	SpaceTime Variational Multiscale Isogeometric Analysis of a tsunami-shelter vertical-axis wind turbine. <i>Computational Mechanics</i> , 2020 , 66, 1443-1460	4	14
49	SUPG/PSPG Computational Analysis of Rain Erosion in Wind-Turbine Blades. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2016 , 77-96	0.8	12
48	Element-splitting-invariant local-length-scale calculation in B-Spline meshes for complex geometries. <i>Mathematical Models and Methods in Applied Sciences</i> , 2020 , 30, 2139-2174	3.5	10
47	Computational analysis of particle-laden-airflow erosion and experimental verification. <i>Computational Mechanics</i> , 2020 , 65, 1549-1565	4	10
46	Simulation and experiment on swimming fish and skimmer by CIP method. <i>Computers and Structures</i> , 2005 , 83, 397-408	4.5	10
45	Computational Cardiovascular Analysis with the Variational Multiscale Methods and Isogeometric Discretization. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2020 , 151-193	0.8	9
44	Bringing them Down Safely. <i>Mechanical Engineering</i> , 2012 , 134, 34-37	0.9	8
43	ALE and SpaceTime Variational Multiscale Isogeometric Analysis of Wind Turbines and Turbomachinery. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2020 , 195-233	0.8	8
42	Variational Multiscale Flow Analysis in Aerospace, Energy and Transportation Technologies. <i>Modeling and Simulation in Science, Engineering and Technology</i> , 2020 , 235-280	0.8	8
41	A linear-elasticity-based mesh moving method with no cycle-to-cycle accumulated distortion. <i>Computational Mechanics</i> , 2021 , 67, 413-434	4	7
40	Patient-Specific Cardiovascular Fluid Mechanics Analysis with the ST and ALE-VMS Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 71-102	0.4	6
39	SpaceTime VMS isogeometric analysis of the Taylor-Couette flow. <i>Computational Mechanics</i> , 2021 , 67, 1515-1541	4	5
38	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: I. Computational framework. <i>Computational Mechanics</i> , 2021 , 68, 113-130	4	5
37	U-duct turbulent-flow computation with the ST-VMS method and isogeometric discretization. <i>Computational Mechanics</i> , 2021 , 67, 823-843	4	5
36	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: II. Spatial and temporal resolution. <i>Computational Mechanics</i> , 2021 , 68, 175-184	4	4

35	Fluid-Structure Interaction and Flows with Moving Boundaries and Interfaces 2017 , 1-53		3
34	Main aspects of the space-time computational FSI techniques and examples of challenging problems solved. <i>Mechanical Engineering Reviews</i> , 2014 , 1, CM0005-CM0005	4-7	3
33	Computational Engineering Analysis and Design with ALE-VMS and ST Methods. <i>Computational Methods in Applied Sciences (Springer)</i> , 2014 , 321-353	0-4	3
32	Computational flow analysis with boundary layer and contact representation: I. Tire aerodynamics with road contact. <i>Journal of Mechanics</i> , 2022 , 38, 77-87	1	3
31	Space-time isogeometric analysis of car and tire aerodynamics with road contact and tire deformation and rotation. <i>Computational Mechanics</i> , 1	4	3
30	Fluid-Structure Interaction Modeling of Patient-Specific Cerebral Aneurysms. <i>Lecture Notes in Computational Vision and Biomechanics</i> , 2014 , 25-45	0-3	2
29	Computational fluid mechanics and fluid-structure interaction. <i>Computational Mechanics</i> , 2012 , 50, 665-665		2
28	Wind turbine wake computation with the ST-VMS method and isogeometric discretization: Directional preference in spatial refinement. <i>Computational Mechanics</i> , 2022 , 69, 1031	4	2
27	Patient-Specific Computational Fluid Mechanics of Cerebral Arteries with Aneurysm and Stent 119-147		2
26	Space-time Flow Computation with Contact Between the Moving Solid Surfaces 2022 , 517-525		2
25	Space-time Computational FSI and Flow Analysis: 2004 and Beyond 2022 , 537-544		2
24	Computational flow analysis with boundary layer and contact representation: II. Heart valve flow with leaflet contact. <i>Journal of Mechanics</i> , 2022 , 38, 185-194	1	2
23	Biomedical fluid mechanics and fluid-structure interaction. <i>Computational Mechanics</i> , 2014 , 54, 893-893	4	1
22	The Analysis of Electromagnetic Waves Using CIP Scheme with Soroban Grid 2006 , 141-146		1
21	Experimental Research on Rotating Skimmer 2003 , 515		1
20	A New Paradigm of Computer Graphics by Universal Solver for Solid, Liquid and Gas. <i>JSME International Journal Series B</i> , 2004 , 47, 656-663		1
19	Anatomically realistic lumen motion representation in patient-specific space-time isogeometric flow analysis of coronary arteries with time-dependent medical-image data 2020 , 65, 395		1
18	Element length calculation in B-spline meshes for complex geometries 2020 , 65, 1085		1

- 17 Finite elements in flow problems 2015, Taiwan. *Computers and Fluids*, **2017**, 142, 1-2 2.8
- 16 Governing Equations of Fluid and Structural Mechanics **2012**, 1-35
- 15 Basics of the Finite Element Method for Nonmoving-Domain Problems **2012**, 37-72
- 14 Basics of the Isogeometric Analysis **2012**, 73-81
- 13 ALE and SpaceTime Methods for Moving Boundaries and Interfaces **2012**, 83-109
- 12 ALE and SpaceTime Methods for FSI **2012**, 111-137
- 11 Advanced FSI and SpaceTime Techniques **2012**, 139-169
- 10 General Applications and Examples of FSI Modeling **2012**, 171-190
- 9 Cardiovascular FSI **2012**, 191-258
- 8 Parachute FSI **2012**, 259-314
- 7 Wind-Turbine Aerodynamics and FSI **2012**, 315-351
- 6 Three-Dimensional Simulation of Skimmer on Water **2003**, 509
- 5 Three-Phase Flow Calculation With Conservative Semi-Lagrangian CIP Method **2002**, 467
- 4 2A23 Arterial Wall Modeling and Medical Image Mapping Based on Element-Based Zero-Stress State Estimation Method. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 315-316 0
- 3 Recent Advances of Multi-phase Flow Computation with the Adaptive Soroban-grid Cubic Interpolated Propagation (CIP) Method **2009**, 29-43
- 2 Computational Wind-Turbine Analysis with the ALE-VMS and ST-VMS Methods. *Computational Methods in Applied Sciences (Springer)*, **2014**, 355-386 0.4
- 1 Numerical Study for Blood Flows in Thoracic Aorta. *SEMA SIMAI Springer Series*, **2022**, 195-203 0.2