Tayfun E Tezduyar

List of Publications by Year in Descending Order

329 papers	20,461 citations	82 h-index	129 g-index
356 ext. papers	22,130 ext. citations	3.6 avg, IF	7.26 L-index

#	Paper	IF	Citations
329	Wind turbine wake computation with the ST-VMS method and isogeometric discretization: Directional preference in spatial refinement. *Computational Mechanics*, **2022**, 69, 1031	4	2
328	Computational flow analysis with boundary layer and contact representation: I. Tire aerodynamics with road contact. *Journal of Mechanics*, **2022**, 38, 77-87	1	3
327	Space–Time Flow Computation with Contact Between the Moving Solid Surfaces **2022**, 517-525		2
326	Space–Time Computational FSI and Flow Analysis: 2004 and Beyond **2022**, 537-544		2
325	Computational flow analysis with boundary layer and contact representation: II. Heart valve flow with leaflet contact. *Journal of Mechanics*, **2022**, 38, 185-194	1	2
324	Space–time VMS isogeometric analysis of the Taylor–Couette flow. *Computational Mechanics*, **2021**, 67, 1515-1541	4	5
323	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: II. Spatial and temporal resolution. *Computational Mechanics*, **2021**, 68, 175-184	4	4
322	Wind turbine wake computation with the ST-VMS method, isogeometric discretization and multidomain method: I. Computational framework. *Computational Mechanics*, **2021**, 68, 113-130	4	5
321	Gas turbine computational flow and structure analysis with isogeometric discretization and a complex-geometry mesh generation method. *Computational Mechanics*, **2021**, 67, 57-84	4	18
320	A linear-elasticity-based mesh moving method with no cycle-to-cycle accumulated distortion. *Computational Mechanics*, **2021**, 67, 413-434	4	7
319	U-duct turbulent-flow computation with the ST-VMS method and isogeometric discretization. *Computational Mechanics*, **2021**, 67, 823-843	4	5
318	Element-splitting-invariant local-length-scale calculation in B-Spline meshes for complex geometries. *Mathematical Models and Methods in Applied Sciences*, **2020**, 30, 2139-2174	3.5	10
317	A low-distortion mesh moving method based on fiber-reinforced hyperelasticity and optimized zero-stress state. *Computational Mechanics*, **2020**, 65, 1567-1591	4	15
316	Computational analysis of particle-laden-airflow erosion and experimental verification. *Computational Mechanics*, **2020**, 65, 1549-1565	4	10
315	Ventricle-valve-aorta flow analysis with the Space–Time Isogeometric Discretization and Topology Change. *Computational Mechanics*, **2020**, 65, 1343-1363	4	29
314	Heart valve isogeometric sequentially-coupled FSI analysis with the space–time topology change method. *Computational Mechanics*, **2020**, 65, 1167-1187	4	31
313	Wind Turbine and Turbomachinery Computational Analysis with the ALE and Space-Time Variational Multiscale Methods and Isogeometric Discretization **2020**, 4, 1		14

312	Computational Flow Analysis in Aerospace, Energy and Transportation Technologies with the Variational Multiscale Methods **2020**, 4, 83		14
311	Computational Cardiovascular Analysis with the Variational Multiscale Methods and Isogeometric Discretization. *Modeling and Simulation in Science, Engineering and Technology*, **2020**, 151-193	0.8	9
310	ALE and Space–Time Variational Multiscale Isogeometric Analysis of Wind Turbines and Turbomachinery. *Modeling and Simulation in Science, Engineering and Technology*, **2020**, 195-233	0.8	8
309	Variational Multiscale Flow Analysis in Aerospace, Energy and Transportation Technologies. *Modeling and Simulation in Science, Engineering and Technology*, **2020**, 235-280	0.8	8
308	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
307	Element length calculation in B-spline meshes for complex geometries **2020**, 65, 1085		1
306	Element length calculation in B-spline meshes for complex geometries. *Computational Mechanics*, **2020**, 65, 1085-1103	4	20
305	Space–Time Variational Multiscale Isogeometric Analysis of a tsunami-shelter vertical-axis wind turbine. *Computational Mechanics*, **2020**, 66, 1443-1460	4	14
304	Anatomically realistic lumen motion representation in patient-specific space–time isogeometric flow analysis of coronary arteries with time-dependent medical-image data. *Computational Mechanics*, **2020**, 65, 395-404	4	26
303	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. *Computational Mechanics*, **2019**, 64, 1403-1419	4	31
302	Computational analysis methods for complex unsteady flow problems. *Mathematical Models and Methods in Applied Sciences*, **2019**, 29, 825-838	3.5	16
301	A stabilized ALE method for computational fluid–structure interaction analysis of passive morphing in turbomachinery. *Mathematical Models and Methods in Applied Sciences*, **2019**, 29, 967-994	3.5	27
300	Computational analysis of performance deterioration of a wind turbine blade strip subjected to environmental erosion. *Computational Mechanics*, **2019**, 64, 1133-1153	4	32
299	Methods for computation of flow-driven string dynamics in a pump and residence time. *Mathematical Models and Methods in Applied Sciences*, **2019**, 29, 839-870	3.5	33
298	Space–time Isogeometric flow analysis with built-in Reynolds-equation limit. *Mathematical Models and Methods in Applied Sciences*, **2019**, 29, 871-904	3.5	29
297	Medical-image-based aorta modeling with zero-stress-state estimation. *Computational Mechanics*, **2019**, 64, 249-271	4	23
296	Mesh refinement influence and cardiac-cycle flow periodicity in aorta flow analysis with isogeometric discretization. *Computers and Fluids*, **2019**, 179, 790-798	2.8	39
295	Turbocharger turbine and exhaust manifold flow computation with the Space–Time Variational Multiscale Method and Isogeometric Analysis. *Computers and Fluids*, **2019**, 179, 764-776	2.8	43

294	Isogeometric hyperelastic shell analysis with out-of-plane deformation mapping. *Computational Mechanics*, **2019**, 63, 681-700	4	29
293	Compressible-flow geometric-porosity modeling and spacecraft parachute computation with isogeometric discretization. *Computational Mechanics*, **2019**, 63, 301-321	4	44
292	Space–time computational analysis of tire aerodynamics with actual geometry, road contact, tire deformation, road roughness and fluid film. *Computational Mechanics*, **2019**, 64, 1699-1718	4	26
291	A node-numbering-invariant directional length scale for simplex elements. *Mathematical Models and Methods in Applied Sciences*, **2019**, 29, 2719-2753	3.5	18
290	Computational Cardiovascular Flow Analysis with the Variational Multiscale Methods **2019**, 3, 366		21
289	Aorta zero-stress state modeling with T-spline discretization. *Computational Mechanics*, **2019**, 63, 1315-1331	4	17
288	Tire aerodynamics with actual tire geometry, road contact and tire deformation. *Computational Mechanics*, **2019**, 63, 1165-1185	4	43
287	Space–time computations in practical engineering applications: a summary of the 25-year history. *Computational Mechanics*, **2019**, 63, 747-753	4	31
286	Computer Modeling of Wind Turbines: 1. ALE-VMS and ST-VMS Aerodynamic and FSI Analysis. *Archives of Computational Methods in Engineering*, **2019**, 26, 1059-1099	7.8	32
285	Stabilization and discontinuity-capturing parameters for space–time flow computations with finite element and isogeometric discretizations. *Computational Mechanics*, **2018**, 62, 1169-1186	4	50
284	Comment on "Experimental investigation of Taylor vortex photocatalytic reactor for water purification" *Chemical Engineering Science*, **2018**, 192, 1262	4.4	1
283	Heart Valve Flow Computation with the Space–Time Slip Interface Topology Change (ST-SI-TC) Method and Isogeometric Analysis (IGA). *Lecture Notes in Applied and Computational Mechanics*, **2018**, 77-99	0.3	36
282	Estimation of Element-Based Zero-Stress State in Arterial FSI Computations with Isogeometric Wall Discretization. *Lecture Notes in Applied and Computational Mechanics*, **2018**, 101-122	0.3	22
281	A General-Purpose NURBS Mesh Generation Method for Complex Geometries. *Modeling and Simulation in Science, Engineering and Technology*, **2018**, 399-434	0.8	42
280	Aorta Flow Analysis and Heart Valve Flow and Structure Analysis. *Modeling and Simulation in Science, Engineering and Technology*, **2018**, 29-89	0.8	37
279	Recent Advances in ALE-VMS and ST-VMS Computational Aerodynamic and FSI Analysis of Wind Turbines. *Modeling and Simulation in Science, Engineering and Technology*, **2018**, 253-336	0.8	32
278	Space–Time Computational Analysis of Tire Aerodynamics with Actual Geometry, Road Contact, and Tire Deformation. *Modeling and Simulation in Science, Engineering and Technology*, **2018**, 337-376	0.8	31
277	Turbocharger flow computations with the Space–Time Isogeometric Analysis (ST-IGA). *Computers and Fluids*, **2017**, 142, 15-20	2.8	80

276	Computational analysis of flow-driven string dynamics in turbomachinery. *Computers and Fluids*, **2017**, 142, 109-117	2.8	53
275	Porosity models and computational methods for compressible-flow aerodynamics of parachutes with geometric porosity. *Mathematical Models and Methods in Applied Sciences*, **2017**, 27, 771-806	3.5	57
274	Space–time VMS computational flow analysis with isogeometric discretization and a general-purpose NURBS mesh generation method. *Computers and Fluids*, **2017**, 158, 189-200	2.8	57
273	Fluid–Structure Interaction and Flows with Moving Boundaries and Interfaces **2017**, 1-53		3
272	Aorta modeling with the element-based zero-stress state and isogeometric discretization. *Computational Mechanics*, **2017**, 59, 265-280	4	24
271	Heart valve flow computation with the integrated Space–Time VMS, Slip Interface, Topology Change and Isogeometric Discretization methods. *Computers and Fluids*, **2017**, 158, 176-188	2.8	69
270	Computational analysis of wind-turbine blade rain erosion. *Computers and Fluids*, **2016**, 141, 175-183	2.8	51
269	Flow analysis of a wave-energy air turbine with the SUPG/PSPG stabilization and Discontinuity-Capturing Directional Dissipation. *Computers and Fluids*, **2016**, 141, 184-190	2.8	17
268	SUPG/PSPG Computational Analysis of Rain Erosion in Wind-Turbine Blades. *Modeling and Simulation in Science, Engineering and Technology*, **2016**, 77-96	0.8	12
267	Ram-air parachute structural and fluid mechanics computations with the Space–Time Isogeometric Analysis (ST-IGA). *Computers and Fluids*, **2016**, 141, 191-200	2.8	69
266	Computational thermo-fluid analysis of a disk brake. *Computational Mechanics*, **2016**, 57, 965-977	4	66
265	Flow Analysis of a Wave-Energy Air Turbine with the SUPG/PSPG Method and DCDD. *Modeling and Simulation in Science, Engineering and Technology*, **2016**, 39-53	0.8	2
264	1E33 Zero-Stress State Estimation of Aortic Wall with NURBS Representation. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2016**, 2016.28, _1E33-1_-_1E33-3_	0	
263	Space–Time method for flow computations with slip interfaces and topology changes (ST-SI-TC). *Computers and Fluids*, **2016**, 141, 124-134	2.8	61
262	New Directions in Space–Time Computational Methods. *Modeling and Simulation in Science, Engineering and Technology*, **2016**, 159-178	0.8	31
261	A Geometrical-Characteristics Study in Patient-Specific FSI Analysis of Blood Flow in the Thoracic Aorta. *Modeling and Simulation in Science, Engineering and Technology*, **2016**, 379-386	0.8	30
260	Particle tracking and particle–shock interaction in compressible-flow computations with the V-SGS stabilization and (YZbeta) shock-capturing. *Computational Mechanics*, **2015**, 55, 1201-1209	4	51
259	Space–Time VMS method for flow computations with slip interfaces (ST-SI). *Mathematical Models and Methods in Applied Sciences*, **2015**, 25, 2377-2406	3.5	86

258	New directions and challenging computations in fluid dynamics modeling with stabilized and multiscale methods. *Mathematical Models and Methods in Applied Sciences*, **2015**, 25, 2217-2226	3.5	63
257	Special methods for aerodynamic-moment calculations from parachute FSI modeling. *Computational Mechanics*, **2015**, 55, 1059-1069	4	60
256	Multiscale space–time methods for thermo-fluid analysis of a ground vehicle and its tires. *Mathematical Models and Methods in Applied Sciences*, **2015**, 25, 2227-2255	3.5	93
255	FSI modeling of the Orion spacecraft drogue parachutes. *Computational Mechanics*, **2015**, 55, 1167-1179	4	64
254	Space–time computational analysis of MAV flapping-wing aerodynamics with wing clapping. *Computational Mechanics*, **2015**, 55, 1131-1141	4	88
253	2A15 Relations among morphology, wall stress and pathology in the thoracic aorta. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2015**, 2015.27, 309	0	
252	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	
251	J0210104 Arterial Wall Modeling with Time-Dependent Medical Images. *The Proceedings of Mechanical Engineering Congress Japan*, **2015**, 2015, _J0210104--_J0210104-	0	
250	Sequentially-coupled space–time FSI analysis of bio-inspired flapping-wing aerodynamics of an MAV. *Computational Mechanics*, **2014**, 54, 213-233	4	95
249	Estimation of element-based zero-stress state for arterial FSI computations. *Computational Mechanics*, **2014**, 54, 895-910	4	40
248	Patient-Specific Cardiovascular Fluid Mechanics Analysis with the ST and ALE-VMS Methods. *Computational Methods in Applied Sciences (Springer)*, **2014**, 71-102	0.4	6
247	Engineering Analysis and Design with ALE-VMS and Space–Time Methods. *Archives of Computational Methods in Engineering*, **2014**, 21, 481-508	7.8	95
246	Aerodynamic and FSI Analysis of Wind Turbines with the ALE-VMS and ST-VMS Methods. *Archives of Computational Methods in Engineering*, **2014**, 21, 359-398	7.8	89
245	Fluid–Structure Interaction Modeling of Patient-Specific Cerebral Aneurysms. *Lecture Notes in Computational Vision and Biomechanics*, **2014**, 25-45	0.3	2
244	Coronary arterial dynamics computation with medical-image-based time-dependent anatomical models and element-based zero-stress state estimates. *Computational Mechanics*, **2014**, 54, 1047-1053	4	39
243	Biomedical fluid mechanics and fluid–structure interaction. *Computational Mechanics*, **2014**, 54, 893-893	4	1
242	Space–time interface-tracking with topology change (ST-TC). *Computational Mechanics*, **2014**, 54, 955-971	4	104
241	Space–time fluid mechanics computation of heart valve models. *Computational Mechanics*, **2014**, 54, 973-986	4	98

240	A variational multiscale method for particle-cloud tracking in turbomachinery flows. *Computational Mechanics*, **2014**, 54, 1191-1202	4	43
239	Main aspects of the space–time computational FSI techniques and examples of challenging problems solved. *Mechanical Engineering Reviews*, **2014**, 1, CM0005-CM0005	4.7	3
238	FSI modeling of the reefed stages and disreefing of the Orion spacecraft parachutes. *Computational Mechanics*, **2014**, 54, 1203-1220	4	71
237	Multiscale methods for gore curvature calculations from FSI modeling of spacecraft parachutes. *Computational Mechanics*, **2014**, 54, 1461-1476	4	60
236	ST and ALE-VMS methods for patient-specific cardiovascular fluid mechanics modeling. *Mathematical Models and Methods in Applied Sciences*, **2014**, 24, 2437-2486	3.5	98
235	Space–time computation techniques with continuous representation in time (ST-C). *Computational Mechanics*, **2014**, 53, 91-99	4	69
234	Space–time VMS computation of wind-turbine rotor and tower aerodynamics. *Computational Mechanics*, **2014**, 53, 1-15	4	111
233	Computational Engineering Analysis and Design with ALE-VMS and ST Methods. *Computational Methods in Applied Sciences (Springer)*, **2014**, 321-353	0.4	3
232	Computational Wind-Turbine Analysis with the ALE-VMS and ST-VMS Methods. *Computational Methods in Applied Sciences (Springer)*, **2014**, 355-386	0.4	
231	Ringsail-Parachute Fluid Mechanics Computation with Resolved Geometric Porosity. *The Proceedings of the Computational Mechanics Conference*, **2014**, 2014.27, 399-400	0	
230	1G26 Aortic-Valve Simulation with a High-Accuracy Method. *The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME*, **2014**, 2014.26, 229-230	0	
229	SUPG and discontinuity-capturing methods for coupled fluid mechanics and electrochemical transport problems. *Computational Mechanics*, **2013**, 51, 171-185	4	52
228	Fluid–structure interaction modeling of clusters of spacecraft parachutes with modified geometric porosity. *Computational Mechanics*, **2013**, 52, 1351-1364	4	90
227	Finite element computation and experimental validation of sloshing in rectangular tanks. *Computational Mechanics*, **2013**, 52, 1301-1312	4	19
226	Patient-specific computational analysis of the influence of a stent on the unsteady flow in cerebral aneurysms. *Computational Mechanics*, **2013**, 51, 1061-1073	4	90
225	CHALLENGES AND DIRECTIONS IN COMPUTATIONAL FLUID–STRUCTURE INTERACTION. *Mathematical Models and Methods in Applied Sciences*, **2013**, 23, 215-221	3.5	103
224	Computer modeling techniques for flapping-wing aerodynamics of a locust. *Computers and Fluids*, **2013**, 85, 125-134	2.8	80
223	METHODS FOR FSI MODELING OF SPACECRAFT PARACHUTE DYNAMICS AND COVER SEPARATION. *Mathematical Models and Methods in Applied Sciences*, **2013**, 23, 307-338	3.5	103

222	SPACE–TIME VMS METHODS FOR MODELING OF INCOMPRESSIBLE FLOWS AT HIGH REYNOLDS NUMBERS. *Mathematical Models and Methods in Applied Sciences*, **2013**, 23, 223-248	3.5	73
221	2508 FSI Analysis of JAXA HTV-R Parachute. *The Proceedings of the Computational Mechanics Conference*, **2013**, 2013.26, _2508-1_-_2508-2_	0	
220	2521 Thermo-fluid analysis around a disk brake. *The Proceedings of the Computational Mechanics Conference*, **2013**, 2013.26, _2521-1_-_2521-2_	0	
219	**2013**,		229
218	ALE-VMS AND ST-VMS METHODS FOR COMPUTER MODELING OF WIND-TURBINE ROTOR AERODYNAMICS AND FLUID–STRUCTURE INTERACTION. *Mathematical Models and Methods in Applied Sciences*, **2012**, 22, 1230002	3.5	131
217	Computational fluid mechanics and fluid–structure interaction. *Computational Mechanics*, **2012**, 50, 665-665	4	2
216	Governing Equations of Fluid and Structural Mechanics **2012**, 1-35		
215	Basics of the Finite Element Method for Nonmoving-Domain Problems **2012**, 37-72		
214	Basics of the Isogeometric Analysis **2012**, 73-81		
213	ALE and Space–Time Methods for Moving Boundaries and Interfaces **2012**, 83-109		
212	ALE and Space–Time Methods for FSI **2012**, 111-137		
211	Advanced FSI and Space–Time Techniques **2012**, 139-169		
210	General Applications and Examples of FSI Modeling **2012**, 171-190		
209	Cardiovascular FSI **2012**, 191-258		
208	Parachute FSI **2012**, 259-314		
207	Wind-Turbine Aerodynamics and FSI **2012**, 315-351		
206	Patient-specific computer modeling of blood flow in cerebral arteries with aneurysm and stent. *Computational Mechanics*, **2012**, 50, 675-686	4	82
205	Computational analysis of noise reduction devices in axial fans with stabilized finite element formulations. *Computational Mechanics*, **2012**, 50, 695-705	4	43

204	Space–time techniques for computational aerodynamics modeling of flapping wings of an actual locust. *Computational Mechanics*, **2012**, 50, 743-760	4	110
203	Space–time computational analysis of bio-inspired flapping-wing aerodynamics of a micro aerial vehicle. *Computational Mechanics*, **2012**, 50, 761-778	4	100
202	Fluid–structure interaction modeling of ringsail parachutes with disreefing and modified geometric porosity. *Computational Mechanics*, **2012**, 50, 835-854	4	74
201	J025012 Patient-specific computer modeling of blood flow in cerebral arteries with aneurysm and stent. *The Proceedings of Mechanical Engineering Congress Japan*, **2012**, 2012, _J025012-1-_J025012-3	0	
200	Computational Methods for Parachute Fluid–Structure Interactions. *Archives of Computational Methods in Engineering*, **2012**, 19, 125-169	7.8	132
199	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
198	Fluid-Structure Interaction Modeling of Spacecraft Parachutes for Simulation-Based Design. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79,	2.7	34
197	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
196	Computer Modeling of Wave-Energy Air Turbines With the SUPG/PSPG Formulation and Discontinuity-Capturing Technique. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79,	2.7	48
195	SPACE–TIME FLUID–STRUCTURE INTERACTION METHODS. *Mathematical Models and Methods in Applied Sciences*, **2012**, 22, 1230001	3.5	136
194	Space-Time Computational Techniques for the Aerodynamics of Flapping Wings. *Journal of Applied Mechanics, Transactions ASME*, **2012**, 79,	2.7	109
193	Bringing them Down Safely. *Mechanical Engineering*, **2012**, 134, 34-37	0.9	8
192	Multiscale space–time fluid–structure interaction techniques. *Computational Mechanics*, **2011**, 48, 247-267	4	208
191	Stabilized space–time computation of wind-turbine rotor aerodynamics. *Computational Mechanics*, **2011**, 48, 333-344	4	117
190	Space–time FSI modeling and dynamical analysis of spacecraft parachutes and parachute clusters. *Computational Mechanics*, **2011**, 48, 345-364	4	76
189	Numerical-performance studies for the stabilized space–time computation of wind-turbine rotor aerodynamics. *Computational Mechanics*, **2011**, 48, 647-657	4	111
188	Space–time SUPG finite element computation of shallow-water flows with moving shorelines. *Computational Mechanics*, **2011**, 48, 293-306	4	26
187	A parallel sparse algorithm targeting arterial fluid mechanics computations. *Computational Mechanics*, **2011**, 48, 377-384	4	33

186	Comments on "Adiabatic shock capturing in perfect gas hypersonic flows". *International Journal for Numerical Methods in Fluids*, **2011**, 66, 935-938	1.9	4
185	Comments on paratrooper-separation modeling with the DSD/SST formulation and FOIST. *International Journal for Numerical Methods in Fluids*, **2011**, 66, 1068-1072	1.9	
184	Fluid–structure interaction modeling and performance analysis of the Orion spacecraft parachutes. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 271-285	1.9	57
183	Fluid–structure interaction modeling of parachute clusters. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 286-307	1.9	75
182	Patient-specific arterial fluid–structure interaction modeling of cerebral aneurysms. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 308-323	1.9	70
181	3D simulation of wind turbine rotors at full scale. Part I: Geometry modeling and aerodynamics. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 207-235	1.9	245
180	Nested and parallel sparse algorithms for arterial fluid mechanics computations with boundary layer mesh refinement. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 135-149	1.9	42
179	Influencing factors in image-based fluid–structure interaction computation of cerebral aneurysms. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 324-340	1.9	49
178	Stabilized finite element computation of NOx emission in aero-engine combustors. *International Journal for Numerical Methods in Fluids*, **2011**, 65, 254-270	1.9	57
177	Space–time fluid–structure interaction modeling of patient-specific cerebral aneurysms. *International Journal for Numerical Methods in Biomedical Engineering*, **2011**, 27, 1665-1710	2.6	85
176	Comment on "Three-Dimensional Aerodynamic Simulations of Jumping Paratroopers and Falling Cargo Payloads". *Journal of Aircraft*, **2011**, 48, 1471-1472	1.6	
175	Improving stability of stabilized and multiscale formulations in flow simulations at small time steps. *Computer Methods in Applied Mechanics and Engineering*, **2010**, 199, 828-840	5.7	185
174	Multiscale sequentially-coupled arterial FSI technique. *Computational Mechanics*, **2010**, 46, 17-29	4	81
173	Wall shear stress calculations in space–time finite element computation of arterial fluid–structure interactions. *Computational Mechanics*, **2010**, 46, 31-41	4	90
172	Solution of linear systems in arterial fluid mechanics computations with boundary layer mesh refinement. *Computational Mechanics*, **2010**, 46, 83-89	4	45
171	Role of 0D peripheral vasculature model in fluid–structure interaction modeling of aneurysms. *Computational Mechanics*, **2010**, 46, 43-52	4	56
170	A DRD finite element formulation for computing turbulent reacting flows in gas turbine combustors. *Computational Mechanics*, **2010**, 46, 159-167	4	58
169	Stabilized Methods for Compressible Flows. *Journal of Scientific Computing*, **2010**, 43, 343-368	2.3	102

168	Space–time finite element computation of complex fluid–structure interactions. *International Journal for Numerical Methods in Fluids*, **2010**, 64, 1201-1218	1.9	126
167	Space–time SUPG formulation of the shallow-water equations. *International Journal for Numerical Methods in Fluids*, **2010**, 64, 1379-1394	1.9	22
166	Space–time finite element computation of arterial fluid–structure interactions with patient-specific data. *International Journal for Numerical Methods in Biomedical Engineering*, **2010**, 26, 101-116	2.6	101
165	Influence of wall thickness on fluid–structure interaction computations of cerebral aneurysms. *International Journal for Numerical Methods in Biomedical Engineering*, **2010**, 26, 336-347	2.6	73
164	Computational Modeling of the Collapse of a Liquid Column Over an Obstacle and Experimental Validation. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	10
163	A Multiscale Finite Element Formulation With Discontinuity Capturing for Turbulence Models With Dominant Reactionlike Terms. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	49
162	Computation of Inviscid Supersonic Flows Around Cylinders and Spheres With the V-SGS Stabilization and YZβ Shock-Capturing. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	54
161	Preconditioning Techniques for Nonsymmetric Linear Systems in the Computation of Incompressible Flows. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	42
160	Three-Dimensional Edge-Based SUPG Computation of Inviscid Compressible Flows With YZβ Shock-Capturing. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	20
159	Correct implementation of the fluid–object interactions subcomputation technique (FOIST). *Communications in Numerical Methods in Engineering*, **2009**, 25, 1055-1058		
158	Comments on "Simplex space–time meshes in finite element simulations". *International Journal for Numerical Methods in Fluids*, **2009**, 60, 1289-1290	1.9	1
157	Sequentially-Coupled Arterial Fluid–Structure Interaction (SCAFSI) technique. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 3524-3533	5.7	79
156	Fluid–structure interaction modeling of blood flow and cerebral aneurysm: Significance of artery and aneurysm shapes. *Computer Methods in Applied Mechanics and Engineering*, **2009**, 198, 3613-3621	5.7	115
155	Special Issue on Stabilized, Multiscale, and Multiphysics Methods in Fluid Mechanics. *Journal of Applied Mechanics, Transactions ASME*, **2009**, 76,	2.7	1
154	Fluid–structure interaction modeling of ringsail parachutes. *Computational Mechanics*, **2008**, 43, 133-142	4	84
153	Interface projection techniques for fluid–structure interaction modeling with moving-mesh methods. *Computational Mechanics*, **2008**, 43, 39-49	4	111
152	A nested iterative scheme for computation of incompressible flows in long domains. *Computational Mechanics*, **2008**, 43, 73-80	4	51
151	Modeling of fluid–structure interactions with the space–time finite elements: contact problems. *Computational Mechanics*, **2008**, 43, 51-60	4	54

150	Fluid–structure interaction modeling of a patient-specific cerebral aneurysm: influence of structural modeling. *Computational Mechanics*, **2008**, 43, 151-159	4	127
149	Arterial fluid mechanics modeling with the stabilized space–time fluid–structure interaction technique. *International Journal for Numerical Methods in Fluids*, **2008**, 57, 601-629	1.9	129
148	Stabilized formulations for incompressible flows with thermal coupling. *International Journal for Numerical Methods in Fluids*, **2008**, 57, 1189-1209	1.9	44
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