

# Kenneth E Jansen

## List of Publications by Citations

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33  
papers

1,937  
citations

16  
h-index

36  
g-index

36  
ext. papers

2,164  
ext. citations

3  
avg, IF

4.63  
L-index

#	Paper	IF	Citations
33	A generalized method for integrating the filtered Navier-Stokes equations with a stabilized finite element method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2000</b> , 190, 305-319	5.7	502
32	Large Eddy Simulation and the variational multiscale method. <i>Computing and Visualization in Science</i> , <b>2000</b> , 3, 47-59	1	434
31	A stabilized finite element method for the incompressible Navier-Stokes equations using a hierarchical basis. <i>International Journal for Numerical Methods in Fluids</i> , <b>2001</b> , 35, 93-116	1.9	210
30	Outflow boundary conditions for 3D simulations of non-periodic blood flow and pressure fields in deformable arteries. <i>Computer Methods in Biomechanics and Biomedical Engineering</i> , <b>2010</b> , 13, 625-40	2.1	198
29	Computation of incompressible bubble dynamics with a stabilized finite element level set method. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2005</b> , 194, 4565-4587	5.7	84
28	Three-dimensional interactions between a finite-span synthetic jet and a crossflow. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 671, 254-287	3.7	64
27	Detached direct numerical simulations of turbulent two-phase bubbly channel flow. <i>International Journal of Multiphase Flow</i> , <b>2011</b> , 37, 647-659	3.6	63
26	Hydrodynamic simulation of air bubble implosion using a level set approach. <i>Journal of Computational Physics</i> , <b>2006</b> , 215, 98-132	4.1	54
25	A dynamic multi-scale approach for turbulent inflow boundary conditions in spatially developing flows. <i>Journal of Fluid Mechanics</i> , <b>2011</b> , 670, 581-605	3.7	49
24	. <i>Computing in Science and Engineering</i> , <b>2014</b> , 16, 13-21	1.5	41
23	Cardiovascular flow simulation at extreme scale. <i>Computational Mechanics</i> , <b>2010</b> , 46, 71-82	4	36
22	A parallel adaptive mesh method for the numerical simulation of multiphase flows. <i>Computers and Fluids</i> , <b>2013</b> , 87, 115-131	2.8	28
21	Direct numerical simulation of turbulent channel flows using a stabilized finite element method. <i>Computers and Fluids</i> , <b>2009</b> , 38, 924-938	2.8	28
20	A dynamic Smagorinsky model with dynamic determination of the filter width ratio. <i>Physics of Fluids</i> , <b>2004</b> , 16, 2514-2528	4.4	20
19	SIMULATION OF THREE-DIMENSIONAL INCOMPRESSIBLE TURBULENT FLOW INSIDE TUBES WITH HELICAL FINS. <i>Numerical Heat Transfer, Part B: Fundamentals</i> , <b>2004</b> , 46, 195-221	1.3	20
18	Unstructured mesh partition improvement for implicit finite element at extreme scale. <i>Journal of Supercomputing</i> , <b>2012</b> , 59, 1218-1228	2.5	16
17	Spatial test filters for dynamic model large-eddy simulation with finite elements. <i>Communications in Numerical Methods in Engineering</i> , <b>2002</b> , 19, 205-213		13

16	Inlet condition generation for spatially developing turbulent boundary layers via multiscale similarity. <i>Journal of Turbulence</i> , <b>2009</b> , 10, N36	2.1	12
15	Interface Tracking Investigation of Geometric Effects on the Bubbly Flow in PWR Subchannels. <i>Nuclear Science and Engineering</i> , <b>2019</b> , 193, 46-62	1.2	10
14	Improving Unstructured Mesh Partitions for Multiple Criteria Using Mesh Adjacencies. <i>SIAM Journal of Scientific Computing</i> , <b>2018</b> , 40, C47-C75	2.6	9
13	Adjacency-Based Data Reordering Algorithm for Acceleration of Finite Element Computations. <i>Scientific Programming</i> , <b>2010</b> , 18, 107-123	1.4	9
12	Effect of small roughness elements on thermal statistics of a turbulent boundary layer at moderate Reynolds number. <i>Journal of Fluid Mechanics</i> , <b>2016</b> , 787, 84-115	3.7	8
11	Tools to support mesh adaptation on massively parallel computers. <i>Engineering With Computers</i> , <b>2012</b> , 28, 287-301	4.5	7
10	Anisotropic Adaptation for Transonic Flows with Turbulent Boundary Layers. <i>AIAA Journal</i> , <b>2015</b> , 53, 367-378	2.1	4
9	Direct numerical simulation of a turbulent boundary layer over a bump with strong pressure gradients. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 918,	3.7	4
8	In-memory integration of existing software components for parallel adaptive unstructured mesh workflows. <i>Concurrency Computation Practice and Experience</i> , <b>2018</b> , 30, e4510	1.4	4
7	Wall-Modeled LES of Flow over a Gaussian Bump with Strong Pressure Gradients and Separation <b>2020</b> ,		3
6	Assessing and improving the accuracy of synthetic turbulence generation. <i>Journal of Fluid Mechanics</i> , <b>2021</b> , 906,	3.7	2
5	S-frame discrepancy correction models for data-informed Reynolds stress closure. <i>Journal of Computational Physics</i> , <b>2022</b> , 448, 110717	4.1	2
4	Annular Flow Simulation Supported by Iterative In-Memory Mesh Adaptation. <i>Nuclear Science and Engineering</i> , <b>2020</b> , 194, 676-689	1.2	1
3	Unstructured LES_DNS of a Turbulent Boundary Layer over a Gaussian Bump <b>2021</b> ,		1
2	A stabilized finite element method for the incompressible Navier-Stokes equations using a hierarchical basis <b>2001</b> , 35, 93		1
1	Bi-fidelity reduced polynomial chaos expansion for uncertainty quantification. <i>Computational Mechanics</i> , <sup>1</sup>	4	0